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Building knowledge

Job Order Contract Construction Task Catalog®

Book 1 CSI Divisions 01 - 50 July 2019

Monterey County
Roads and Bridges



GORDIAN®

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About the CTC:

- ☑ This Construction Task Catalog® (CTC) was developed and customized by The Gordian Group, Inc. specifically for **Monterey County**, priced locally using current labor, material and equipment costs, and published in July 2019.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **Monterey County**. Use of this CTC and other proprietary information and software for any other purpose, or for any other entity, is expressly prohibited without the express written consent of The Gordian Group, Inc.

MasterFormat™

- ☑ The tasks in this Construction Task Catalog are organized using CSI's *MasterFormat*.



The Unit Prices Include:

LABOR COSTS:

- ☑ Labor costs include direct labor through the working foreperson level at straight-time prevailing wage rates including fringe benefits and an allowance for Social Security, Medicare taxes, worker's compensation, unemployment insurance, and employee benefits.
- ☑ Labor costs include unloading equipment, materials, and tools, and transporting the same up or down 2 1/2 stories and 125' to reach the project site; layout; measuring and cutting to fit; performing the task; disposal of excess material; and time for lunch and breaks.

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EQUIPMENT COSTS:

- ☑ Equipment costs include all equipment required to accomplish the task.
- ☑ Mobilization is included for all equipment except large equipment (e.g. cranes, bulldozers, excavators, backhoes, bobcats etc.), which exclude mobilization.
- ☑ Equipment costs include all operating expenses such as fuel, electricity, lubricants, etc.

MATERIAL COSTS:

- ☑ Material costs include the cost of the material, delivery, and all incidentals and accessories integral to the installation.
- ☑ Material costs include manufacturer's and/or fabricator's shop drawings.
- ☑ Material costs for roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, concrete, etc. include an allowance for waste. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.
- ☑ Material costs for imported materials (e.g. aggregate, sand, soil, etc.) include delivery up to 15 miles from the closest approved source.

The Adjustment Factors Include:

The Adjustment Factors include the following costs, unless specifically excluded by the terms of the Contract Documents:

BUSINESS COSTS:

- ☑ Office overhead, including, but not limited to, office space, office equipment, office and management personnel, office supplies, and employee transportation.
- ☑ Insurance and bonding.
- ☑ Profit.

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- Job Order development services, Owner meetings, and other administrative services required by the Contract Documents.
- Subcontractor's overhead and profit.
- Cost of financing the work.
- Business risks such as the risk of a lower than expected volume of work, smaller than anticipated Job Orders, poor Subcontractor performance, and inflation or material cost fluctuations.

PROJECT RELATED COSTS:

- Project trailer, equipment and supplies, and portable toilets for Contractor's use.
- Project management and project supervision.
- Services required to complete project filings and obtain permits.
- Preparation and modification of sketches, drawings, submittals, as-built drawings, and other project records.
- Incidental engineering and architectural services.
- Gang boxes and storage containers for Contractor's tools, equipment and materials.
- Basic safety and warning signage, minor barricades (e.g., construction tape, etc.) and personnel safety equipment (e.g., hard hats, safety harnesses with lifeline or cabling, protective clothing, safety glasses, face shields, etc.).
- Meeting Owner's security requirements.
- All taxes for which a waiver is not available including material sales tax and equipment rental.
- Removing and returning Owner's furniture and furnishings (e.g. chairs, tables, pictures, etc. but excluding modular furniture, furnishings fastened to the wall or floor, safes and other furniture requiring disassembly).
- Sealing windows doors, and other openings with plastic to contain construction dust and debris within the work area, or to protect existing surfaces.
- Working in extreme temperatures (below or above normal) or adverse conditions such as rain, wind,

sleet or snow. Costs resulting from inadequate supply of building materials, fuel, electricity, or skilled labor.

- Daily clean-up.
- Final professional clean-up.

PRICE VARIATIONS:

- Contractors may experience direct costs that are different than the unit prices set forth in the Construction Task Catalog. While diligent effort was made to provide accurate, unit prices, it is the Contractor's responsibility to review and analyze the unit prices, and to calculate, prior to bidding, the Adjustment Factors accordingly.

SUMMARY:

- This list is not exhaustive and is intended to provide general examples of costs to be included in the Contractor's Adjustment Factors.
- The only compensation to be paid to the Contractor for unit price tasks will be:

Unit Price	X	Quantity	X	Adjustment Factor
------------	---	----------	---	----------------------
- No additional payments of any kind whatsoever will be made.
- All costs in excess of the unit prices, must be included in the Adjustment Factors.

General Rules:

- Unit prices are for complete and in-place construction and include all labor, equipment and material required to complete the task as described in the CTC.
- If the Contractor uses a crane or other lifting equipment (except a truck mounted boom lift or other equipment as part of the delivery process) to lift material onto a roof, even if that roof is less than

2 ½ stories, the contractor will be paid for such crane or lifting equipment as a separate task.

- ☑ Unit prices include all fasteners such as anchor bolts, lag bolts, screws, adhesive, wedge anchors, expansion bolts, roofing clips (excluding hurricane clips) required. Fasteners listed separately in the CTC are for use with Owner furnished material and equipment or relocating or reinstalling existing material and equipment.
- ☑ Unit prices exclude more substantial mounting material such as threaded rod or angle iron unless the task description states otherwise.
- ☑ Unit prices for doors and windows, duct work, plumbing fixtures, seamless floors, countertops, roof flashing, pitch pockets, skylights, roof curbs, exterior trim, etc. include sealant and caulking.
- ☑ Unit prices include testing, calibrating, balancing, start-up services and the like required to ensure proper installation, construction and performance of the work (e.g. compaction test for backfill, balancing of heating ventilation and air conditioning, pneumatic or hydrostatic testing, soaping of joints, disinfection and flushing of water lines, etc.). Contractor may be paid for testing, calibrating, balancing, start-up services and the like for Owner supplied materials and equipment, or when working on or tying into existing materials and equipment.
- ☑ For the purpose of calculating the quantity of a task, quantities are calculated on a per project basis. The quantity so determined shall be used for the task and all appropriate modifiers, unless the task states otherwise.
- ☑ Whenever there are alternative tasks that may be selected to complete work, the Contractor shall select the most practical and economical tasks available (e.g. rental of equipment by weeks or months rather than days, or painting by roller or spray rather than brush).

DEMOLITION:

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and transporting the demolished items up or down 2 ½ stories into a truck, dumpster, or to an owner

designated area, located within 125' of the project site.

- ☑ Unit prices for demolition exclude costs for hauling (See 01741900), dump fees (See 01741900), dumpsters (See 01741900), and trash chutes (See 01741900).
- ☑ If the item being demolished is attached to another item being removed and can be removed as one item, then that item shall not be priced as a separate demolition task, unless the component alone must be demolished to accomplish the task (e.g. demolition of pipe includes pipe fittings unless the fitting must be demolished separately to accomplish the task; demolition of a wood door includes hinges, hardware, closures, kick plates, etc.).
- ☑ The word "replace" includes removal of the existing item and installation of the new item.
- ☑ The words "remove and relocate" or "remove and reinstall" include removal, cleaning, and installation of the existing item in either the same location or another location.
- ☑ Salvageable materials are the property of the Owner and shall, if directed, be turned over to the Owner.

WORKING HEIGHT:

- ☑ Typical working height for work other than masonry is up to 14' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for work below 14'.
- ☑ Typical working height for masonry work is up to 4' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for masonry work below 4'.

FIELD ENGINEERING:

- ☑ Surveying tasks shall be used only when the Owner requests the Contractor to perform topographic surveys, property line surveys or to establish horizontal and vertical control points. If the Owner provides horizontal and vertical control points within or adjacent to the project site, all other surveying

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required to complete the work shall be considered construction staking or layout, and the cost thereof is included in the appropriate tasks.

equipment, spare parts, services, and work required by a Technical Specification shall be considered included in the unit price, unless the task description states otherwise.

ASSEMBLIES:

- Assembly tasks take precedence over individual component tasks.

RESTRICTED AND CONFINED SPACES:

- Restricted Working Space is defined as any area with less than 3' vertical or horizontal clearance and includes areas such as crawl spaces, ceiling plenums where the grid is not removed, narrow piping tunnels, and equipment rooms where the space to install the new work is congested as a result of equipment and piping placement that meet these dimensional restrictions. A Restricted Working Space modifier is available for certain mechanical piping and piping accessories tasks and for certain electrical conduit and conduit accessories tasks. Only those tasks with a modifier for Restricted Working Space are eligible for a price adjustment, and then only if the modifier applies to the contemplated tasks. A non pre-priced task will not be allowed because of Restricted Working Space for any CTC task.
- Confined Working Space is defined according to the OSHA definition 29 CFR 1926.21(b)(6)(i): "Any space having limited means of egress, which is subject to accumulation of toxic or flammable contaminants or has an oxygen deficient atmosphere, including, but not limited to, storage tanks, process vessels, bins, boilers, ventilation and exhaust duct, sewers, underground vaults, tunnels, pipelines and open top spaces more than 4 feet in depth such as pits and tubs." The Contractor shall conform to all OSHA and Owner requirements for working in Confined Working Spaces. Required ventilation and air monitoring equipment tasks shall be priced from the CTC.

TECHNICAL SPECIFICATIONS:

- Technical Specifications for tasks shall be interpreted as follows: All labor, material,

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Or Equals:

- Whenever material, products, or equipment is identified in the CTC, or in the Technical Specifications, by reference to a manufacturer's name, make or model number, the identification is intended to establish a standard. Any material, product, or equipment of another manufacturer may be considered an or-equal provided that, in the opinion of the Owner, the material, product, or equipment so proposed is of equal quality, substance and function to the named item. The Contractor shall not install any proposed material, product, or equipment without the prior written approval of the Owner. The burden of proof, and all costs related thereto, concerning whether the proposed material, product, or equipment is an or-equal, shall be borne by the Contractor.

Useful Information:

UNIT OF MEASURE DEFINITIONS:

ACR – Acre, **BAG** – Bag, **BBL** – Barrel, **BCY** - Bank (In-place) Cubic Yards, **BF** - Board Foot, **BOX** - Box (each), **BTU** - British Thermal Unit, **C** - One Hundred, **CCF** - One Hundred Cubic Feet, **CCY** - Compacted Cubic Yards, **CF** - Cubic Foot, **CFM** - Cubic Feet Per Minute, **CI** – Cubic Inch, **CLF** - One Hundred Linear Feet, **CSF** - One Hundred Square Feet, **CSY** - Hundred Square Yards, **CWT** - Hundred Weight, **CY** - Cubic Yard, **CYM** - Cubic Yard Mile, **DAY** – Day, **DRM** - Drum (each), **EA** – Each, **FLR** - Floor (Per Floor), **FT** – Foot, **GAL** – Gallon, **GSF** - Ground Square Foot, **HR** – Hour, **HWT** - Hundred Carton Weight, **HYR** – Half Year, **IN** – Inch, **JOB** – Job, **LAN** – Lane, **LB** – Pound, **LCY** - Loose (Excavated) Cubic Yards, **LF** - Linear Foot, **LFD**

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- Linear Feet Per Day, **LIT** – Liter, **LOT** – Lot, **MBF** - One Thousand Board Feet, **MBH** - One Thousand British Thermal Units, **MCF** – One Thousand Cubic Feet, **MF3** - One Thousand Cubic Feet Per Minute, **MGL** – One Thousand Gallons, **MI** – Mile, **MLF** - One Thousand Linear Feet, **MO** – Month, **MSF** - One Thousand Square Feet, **MSY** - One Thousand Square Yards, **MT** – Metric Ton, **MTK** – Metric Ton Kilometer, **M2** – Square Meter, **M3K** – Cubic Meter Kilometer, **NTE** – Note, **OPN** – Opening, **OUT** - Outlet or Output (each), **OZ** – Ounce, **PKG** – Package, **PNT** – Point, **PR** – Pair, **QT** – Quart, **ROL** - Roll (each), **ROM** – Room, **ROW** – Row, **RSR** - Riser (Per Rise), **SEA** – Seat, **SET** – Set, **SF** - Square Foot, **SHT** – Sheet, **SI** - Square Inch, **STP** - Stop (each), **SQ** - Square or One Hundred Square Feet, **SY** - Square Yard, **SYI** – Inches per Square Yard, **TNM** - Tons per Mile, **TON** – Ton, **TRK** – Truck Load, **UI** - United Inch, **UNT** – Unit, **VLF** - Vertical Linear Foot, **WK** – Week, **YD** – Yard, **YR** – Year

Clay	3220	2150	3570
Gneiss	4550	2720	3180

BULK FACTORS FOR DEMOLITION:

- The following bulk factors shall be used to calculate the volume of demolished material to be transported from the project site.
 - **Asphalt** = 1.25
 - **Concrete** = 1.40

CONVERSIONS:

1 Acre = 43,560 Square Feet = 4046.8 Square Meters

1 Board Foot = 12" x 12" x 1" = 144 Cubic Inches

1 Centimeter = 0.3937 Inches = 0.0328 Feet

1 Cubic Foot = 0.03704 Cubic Yards = 0.02832 Cubic Meters

1 Cubic Meter = 1.3080 Cubic Yards = 35.3147 Cubic Feet

1 Cubic Yard = 27 Cubic Feet = 0.7646 Cubic Meters

1 Foot = 12 Inches = 0.3048 Meters

1 Inch = 2.54 Centimeters = 0.0254 Meters

1 Kilogram = 2.2046 Pounds

1 Kilometer = 0.6214 Miles = 3280 Feet

1 Meter = 100 Centimeters = 3.2808 Feet

1 Mile = 5280 Feet = 1.6093 Kilometers

1 Pound = 0.4536 Kilograms

1 Square Foot = 144 Square Inches = .0929 Square Meters

1 Square Meter = 1.1960 Square Yards = 10.7639 Square Feet

1 Square Yard = 9 Square Feet = 0.8361 Square Meters

MATERIAL WEIGHTS:

EARTHEN MATERIAL

- The following engineering values for establishing shrink/swell factors shall be used unless otherwise directed by the Owner.

Material	Material Weight (Lbs Per CY)		
	In-place (Bank)	Loose (Excavated Materials)	Compacted
Earth, Common (Average)	3170	2536	3520
Sand	2880	2590	3240
Earth, Rock Mix. (75% E/ 25% R)	3380	2370	3720
Earth, Rock Mix. (50% E/50% R)	3750	2710	4000
Earth, Rock Mix. (25% E/ 75% R)	4120	3140	3680
Gravel (Average)	3280	2730	3570
Limestone	4380	2690	3220
Riprap Rock (Average)	4500	2610	3150
Granite	4540	2640	3170
Basalt	4950	3020	3640

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1 Ton = 2000 Pounds = 907.185 Kilograms

1 Yard = 3 Feet = 0.9144 Meters

TRADEMARKS

- ☑ Gordian JOC Solution, JOC Complete Solution, JOC Complete Solution Plus, PROGEN, eGordian, ezIQ, Construction Task Catalog, Catalog of Construction Tasks, DMAP, The Standard for Job Order Contracting and 6 Phase Development and Implementation Process are either registered trademarks or trademarks of The Gordian Group, Inc. The names of actual companies and products mentioned herein may be the trademarks of their respective owners.

Sheet Metal Thickness (inches)				
Gage No.	Steel Sheet	Galvanized Steel Sheet	Stainless Steel Sheet	Aluminum Sheet
10	.135	.138	.141	
11	.120	.123	.125	
12	.105	.108	.109	
13	.090	.093	.094	.072
14	.075	.079	.078	.064
15	.067	.071	.070	.057
16	.060	.064	.063	.051
17	.054	.058	.056	.045
18	.048	.052	.050	.040
19	.042	.046	.044	.036
20	.036	.040	.038	.032
21	.033	.037	.034	.028
22	.030	.034	.031	.025
23	.027	.031	.028	.023
24	.024	.028	.025	.020
25	.021	.025	.022	.018
26	.018	.022	.019	.017

STANDARD GEOMETRY:

Circle

- Circumference = $2 \pi \text{ radius} = \pi \text{ diameter}$
- Area = $\pi \text{ radius}^2 = \pi (\text{diameter}^2 / 4)$

Cylinder

- Volume = $(\pi \text{ radius}^2) \text{height}$
- Surface Area = $2 \pi \text{ radius}^2 + (2 \pi \text{ radius}) \text{height}$

Sphere

- Volume = $(4 \pi \text{ radius}^3) / 3$
- Surface Area = $4 \pi \text{ radius}^2$

$\pi = 3.14159$

United Inch

- The industry standard for measuring windows is the United Inch or UI. The UI is determined by adding the width and the height in inches.



General Requirements			01
Price And Payment Procedures			01 20
Unit Prices			01 22

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 General Requirements

01 20 Price And Payment Procedures ⁽⁰¹⁾

01 22 Unit Prices ^(01 20)

01 22 16 Unit Price Payment ^(01 22)

01 22 16 00-0001 Negotiated Travel Costs ^(01 22 16)
 Note: To be used only at the request of authorized personal for non-commuting travel costs.

01 22 16 00-0002 EA Negotiated Travel Costs 1.00
 Note: Supporting documentation must be included with each Work Order.

01 22 16 00-0003 Reimbursable Fees ^(01 22 16)
 Note: Reimbursable fees include but are not limited to permits, special inspections, special insurance, additional warranties, tolls, expedited shipping costs, etc, which are not included in a task or an Adjustment Factor as explained in the Contract or The Construction Task Catalog®.

01 22 16 00-0004 EA Reimbursable Fees 1.00
 Note: Reimbursable Fees will be paid to the contractor for eligible costs. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt shall be submitted with the Price Proposal.

01 22 20 Wage Rates ^(01 22)

01 22 20 00-0001 Local Labor/Wage Rates ^(01 22 20)
 Note: Welders receive the rate prescribed for the craft performing the operation to which the welding is incidental.

01 22 20 00-0002 HR Asbestos Removal Worker 60.76
 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreman, Add 3.04
 For Apprentice, Deduct -12.15

01 22 20 00-0003 HR Brick Layer 85.69
 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreman, Add 4.28
 For Apprentice, Deduct -17.14

01 22 20 00-0004 HR Carpenter 95.87
 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreman, Add 4.79
 For Apprentice, Deduct -19.17

01 22 20 00-0005 HR Carpenter, Bridge Builder 109.46
 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreman, Add 5.47
 For Apprentice, Deduct -21.89

01 22 20 00-0006 HR Cement Mason 72.05
 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreman, Add 3.60
 For Apprentice, Deduct -14.41

01 22 20 00-0007 HR Electrician 96.22
 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreman, Add 4.81
 For Apprentice, Deduct -19.24

01 22 20 00-0008 HR Electrician, Cable Splicer 97.79
 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreman, Add 4.89
 For Apprentice, Deduct -19.56

01 22 20 00-0009 HR Electrical Groundman 97.79
 Note: Line items in the CTC include appropriate costs to cover labor. These items will be requested specifically by the owner for miscellaneous work not covered in the CTC.

For Foreman, Add 4.89
 For Apprentice, Deduct -19.56

01 22 20 00-0010 HR High Voltage Electrician, (Utility Lineman) 94.07
 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreman, Add 4.70
 For Apprentice, Deduct -18.81

01 22 20 00-0011 HR Communication And System Technician 79.41
 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Apprentice, Deduct -15.88

01 22 20 00-0012 HR Equipment Operator, Crane (Group 1-A) 96.43
 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

01 22 20 00-0013 HR Equipment Operator, Crane (Group 2-A) 92.07
 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreman, Add 4.60
 For Apprentice, Deduct -18.41

01 22 20 00-0014 HR Equipment Operator, Crane (Group 3-A) 91.70
 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

01 22 20 00-0015 HR Equipment Operator, Medium (Group 3) 91.59
 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreman, Add 4.58
 For Apprentice, Deduct -18.32

01	General Requirements
01 20	Price And Payment Procedures
01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0016 HR Equipment Operator, Medium (Group 4).....	89.85	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0017 HR Equipment Operator, Medium (Group 5).....	88.27	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0018 HR Equipment Operator, Light (Group 6).....	86.61	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.33	
For Apprentice, Deduct	-17.32	
01 22 20 00-0019 HR Equipment Operator, Light (Group 7).....	85.18	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0020 HR Equipment Operator, Light (Group 8).....	83.77	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0021 HR Laborer	69.81	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0022 HR Landscape Maintenance Laborer.....	69.81	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0023 HR Millwright.....	91.55	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.58	
For Apprentice, Deduct	-18.31	
01 22 20 00-0024 HR Mold Removal Worker	73.45	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	3.67	
For Apprentice, Deduct	-14.69	
01 22 20 00-0025 HR Painter, Ordinary.....	83.65	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.18	
For Apprentice, Deduct	-16.73	
01 22 20 00-0026 HR Painter, Structural Steel	85.81	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.29	
For Apprentice, Deduct	-17.16	
01 22 20 00-0027 HR Pile Drivers	101.25	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.06	
For Apprentice, Deduct	-20.25	
01 22 20 00-0028 HR Plasterer	89.00	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.45	
For Apprentice, Deduct	-17.80	
01 22 20 00-0029 HR Plumber	94.91	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.75	
For Apprentice, Deduct	-18.98	
01 22 20 00-0030 HR Powderman.....	73.21	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	3.66	
For Apprentice, Deduct	-14.64	
01 22 20 00-0031 HR Rodman (Reinforcing)/Ornamental Steel Worker.....	86.15	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.31	
For Apprentice, Deduct	-17.23	
01 22 20 00-0032 HR Sheet Metal Worker	102.58	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.13	
For Apprentice, Deduct	-20.52	
01 22 20 00-0033 HR Stone Mason.....	85.69	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.28	
For Apprentice, Deduct	-17.14	
01 22 20 00-0034 HR Iron Worker (Structural)	89.29	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.46	
For Apprentice, Deduct	-17.86	
01 22 20 00-0035 HR Tile Layer	80.72	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.04	
For Apprentice, Deduct	-16.14	
01 22 20 00-0036 HR Terrazzo Worker	86.73	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.34	
For Apprentice, Deduct	-17.35	
01 22 20 00-0037 HR Truck Driver, Light (Group 1)	73.82	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	3.69	
For Apprentice, Deduct	-14.76	
01 22 20 00-0038 HR Truck Driver, Medium (Group 2)	74.23	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0039 HR Truck Driver, Heavy (Group 3).....	74.64	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	3.73	
For Apprentice, Deduct	-14.93	
01 22 20 00-0040 HR Truck Driver, Heavy (Group 4).....	75.12	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0041 HR D1 Certified Welder.....	95.01	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0042 Rates For Services (01 22 20)		
01 22 20 00-0043 HR Watchman/Guard, Unarmed.....	29.77	
01 22 20 00-0044 HR Watchman/Guard, Armed.....	36.94	
01 22 20 00-0045 HR Senior Surveyor (Party Chief).....	98.06	
01 22 20 00-0046 HR Surveyor (Instrument person).....	93.47	
01 22 20 00-0047 HR Surveyor (Rod person).....	89.18	
01 22 20 00-0048 HR On-Site Certified Materials Testing Technician.....	83.72	
01 22 20 00-0049 HR Certified Industrial Hygienist.....	113.18	
01 22 20 00-0050 MI Mileage For Professional Services (Engineering, Surveying, Etcetera).....	0.54	
Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.		
01 22 20 00-0051 EA Security Badge, Processing Fee.....	49.74	
01 22 20 00-0052 HR Biologist.....	132.00	
01 22 20 00-0053 HR Ecologist.....	145.00	
01 22 20 00-0054 Rates For Architectural And Engineering Services (01 22 20)		
Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services.		
01 22 20 00-0055 HR Principal Architect.....	205.00	
01 22 20 00-0056 HR Senior Architect.....	180.00	
01 22 20 00-0057 HR Architect.....	136.88	
01 22 20 00-0058 HR Principal Engineer.....	205.00	
01 22 20 00-0059 HR Senior Engineer.....	154.38	
01 22 20 00-0060 HR Engineer.....	123.75	
01 22 20 00-0061 HR Draftsman.....	73.12	
01 22 20 00-0062 HR Project Manager.....	116.25	
01 22 20 00-0063 Rates For Traffic Control (01 22 20)		
01 22 20 00-0064 HR Flagperson For Traffic Control.....	69.81	
01 22 20 00-0065 DAY Pilot Vehicle With Driver.....	852.80	
Note: Includes CB and radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.		
01 22 20 00-0066 HR California Highway Patrol Officer With Car.....	50.70	
For Each Mile, Add		0.56
01 22 20 00-0067 HR California Highway Patrol Officer With Motorcycle.....	51.22	
For Each Mile, Add		0.90
01 22 20 00-0068 HR California Highway Patrol Sergeant Officer With Car.....	62.13	
For Each Mile, Add		0.90
01 22 20 00-0069 HR California Highway Patrol Sergeant Officer With Motorcycle.....	62.28	
For Each Mile, Add		0.90
01 22 20 00-0070 Mobilize Equipment (01 22 20)		
01 22 20 00-0071 HR Escort Vehicle With Driver.....	78.48	
01 22 20 00-0072 HR Transport Vehicle With Driver.....	104.95	
01 22 23 Equipment Usage (01 22)		
Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. See CSI section 01 22 20 00-0063 for traffic control (where required), 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0001 Aerial Equipment (01 22 23)		
01 22 23 00-0002 Manlifts (01 22 23 00-0001)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0003 Telescoping Boom Manlifts (01 22 23 00-0002)		
01 22 23 00-0004 Engine Powered, Telescoping Boom Manlifts (01 22 23 00-0003)		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two- or four-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0005 DAY 40' Engine Powered, Telescoping Boom Manlift.....	430.71	
01 22 23 00-0006 WK 40' Engine Powered, Telescoping Boom Manlift.....	1,083.73	
01 22 23 00-0007 MO 40' Engine Powered, Telescoping Boom Manlift.....	2,431.45	
01 22 23 00-0008 DAY 60' Engine Powered, Telescoping Boom Manlift.....	632.18	
01 22 23 00-0009 WK 60' Engine Powered, Telescoping Boom Manlift.....	1,507.50	
01 22 23 00-0010 MO 60' Engine Powered, Telescoping Boom Manlift.....	3,299.82	
01 22 23 00-0011 DAY 80' Engine Powered, Telescoping Boom Manlift.....	1,229.62	
01 22 23 00-0012 WK 80' Engine Powered, Telescoping Boom Manlift.....	2,980.26	
01 22 23 00-0013 MO 80' Engine Powered, Telescoping Boom Manlift.....	6,252.30	
01 22 23 00-0014 DAY 110' Engine Powered, Telescoping Boom Manlift.....	1,750.64	
01 22 23 00-0015 WK 110' Engine Powered, Telescoping Boom Manlift.....	4,215.44	
01 22 23 00-0016 MO 110' Engine Powered, Telescoping Boom Manlift.....	10,503.86	
01 22 23 00-0017 DAY 120' Engine Powered, Telescoping Boom Manlift.....	2,132.73	
01 22 23 00-0018 WK 120' Engine Powered, Telescoping Boom Manlift.....	5,439.50	
01 22 23 00-0019 MO 120' Engine Powered, Telescoping Boom Manlift.....	12,365.66	
01 22 23 00-0020 Articulating (Up/Over) Boom Manlifts (01 22 23 00-0002)		

01	01	General Requirements
	01 20	Price And Payment Procedures
	01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0021	Engine Powered, Articulating (Up/Over) Boom Manlifts <small>(01 22 23 00-0020)</small>	
	Note: Diesel or dual fuel (gasoline or liquid propane gas). Two- or four-wheel drive. For use on unpaved or paved surfaces.	
01 22 23 00-0022	DAY 34' Engine Powered, Articulating (Up/Over) Boom Manlift.....	271.67
01 22 23 00-0023	WK 34' Engine Powered, Articulating (Up/Over) Boom Manlift.....	681.65
01 22 23 00-0024	MO 34' Engine Powered, Articulating (Up/Over) Boom Manlift.....	1,639.91
01 22 23 00-0025	DAY 45' Engine Powered, Articulating (Up/Over) Boom Manlift.....	345.76
01 22 23 00-0026	WK 45' Engine Powered, Articulating (Up/Over) Boom Manlift.....	755.74
01 22 23 00-0027	MO 45' Engine Powered, Articulating (Up/Over) Boom Manlift.....	1,876.02
01 22 23 00-0028	DAY 60' Engine Powered, Articulating (Up/Over) Boom Manlift.....	444.56
01 22 23 00-0029	WK 60' Engine Powered, Articulating (Up/Over) Boom Manlift.....	1,027.42
01 22 23 00-0030	MO 60' Engine Powered, Articulating (Up/Over) Boom Manlift.....	2,296.87
01 22 23 00-0031	DAY 80' Engine Powered, Articulating (Up/Over) Boom Manlift.....	775.50
01 22 23 00-0032	WK 80' Engine Powered, Articulating (Up/Over) Boom Manlift.....	1,827.62
01 22 23 00-0033	MO 80' Engine Powered, Articulating (Up/Over) Boom Manlift.....	4,444.56
01 22 23 00-0034	DAY 125' Engine Powered, Articulating (Up/Over) Boom Manlift.....	1,506.55
01 22 23 00-0035	WK 125' Engine Powered, Articulating (Up/Over) Boom Manlift.....	3,556.44
01 22 23 00-0036	MO 125' Engine Powered, Articulating (Up/Over) Boom Manlift.....	8,693.52

01 22 23 00-0037	Electric, Articulating (Up/Over) Boom Manlifts <small>(01 22 23 00-0020)</small>	
	Note: For use on paved surfaces.	
01 22 23 00-0038	DAY 30' Electric, Articulating (Up/Over) Boom Manlift.....	271.67
01 22 23 00-0039	WK 30' Electric, Articulating (Up/Over) Boom Manlift.....	681.65
01 22 23 00-0040	MO 30' Electric, Articulating (Up/Over) Boom Manlift.....	1,639.91
01 22 23 00-0041	DAY 35' Electric, Articulating (Up/Over) Boom Manlift.....	271.67
01 22 23 00-0042	WK 35' Electric, Articulating (Up/Over) Boom Manlift.....	681.65
01 22 23 00-0043	MO 35' Electric, Articulating (Up/Over) Boom Manlift.....	1,639.91
01 22 23 00-0044	DAY 40' Electric, Articulating (Up/Over) Boom Manlift.....	335.89
01 22 23 00-0045	WK 40' Electric, Articulating (Up/Over) Boom Manlift.....	726.11
01 22 23 00-0046	MO 40' Electric, Articulating (Up/Over) Boom Manlift.....	1,802.92
01 22 23 00-0047	DAY 45' Electric, Articulating (Up/Over) Boom Manlift.....	335.89
01 22 23 00-0048	WK 45' Electric, Articulating (Up/Over) Boom Manlift.....	726.11
01 22 23 00-0049	MO 45' Electric, Articulating (Up/Over) Boom Manlift.....	1,802.92

01 22 23 00-0050	Platform Lifts <small>(01 22 23 00-0001)</small>	
	Note: Excludes operator, delivery, set-up, and removal.	

01 22 23 00-0051	Electric, Scissor Platform Lifts <small>(01 22 23 00-0050)</small>	
	Note: For use on paved surfaces.	
01 22 23 00-0052	DAY 17' Electric, Scissor Platform Lift.....	166.14
01 22 23 00-0053	WK 17' Electric, Scissor Platform Lift.....	332.29
01 22 23 00-0054	MO 17' Electric, Scissor Platform Lift.....	679.68
01 22 23 00-0055	DAY 20' Electric, Scissor Platform Lift.....	181.25
01 22 23 00-0056	WK 20' Electric, Scissor Platform Lift.....	362.50
01 22 23 00-0057	MO 20' Electric, Scissor Platform Lift.....	724.99
01 22 23 00-0058	DAY 25' Electric, Scissor Platform Lift.....	234.11
01 22 23 00-0059	WK 25' Electric, Scissor Platform Lift.....	468.22
01 22 23 00-0060	MO 25' Electric, Scissor Platform Lift.....	1,004.42
01 22 23 00-0061	DAY 30' Electric, Scissor Platform Lift.....	302.08
01 22 23 00-0062	WK 30' Electric, Scissor Platform Lift.....	596.61
01 22 23 00-0063	MO 30' Electric, Scissor Platform Lift.....	1,321.60
01 22 23 00-0064	DAY 33' Electric, Scissor Platform Lift.....	324.74
01 22 23 00-0065	WK 33' Electric, Scissor Platform Lift.....	634.37
01 22 23 00-0066	MO 33' Electric, Scissor Platform Lift.....	1,434.88
01 22 23 00-0067	DAY 40' Electric, Scissor Platform Lift.....	422.91
01 22 23 00-0068	WK 40' Electric, Scissor Platform Lift.....	1,049.73
01 22 23 00-0069	MO 40' Electric, Scissor Platform Lift.....	2,922.62

01 22 23 00-0070	Engine Powered, Scissor Platform Lifts <small>(01 22 23 00-0050)</small>	
	Note: Diesel or dual fuel (gasoline or liquid propane gas). Two- or four-wheel drive. For use on unpaved or paved surfaces.	
01 22 23 00-0071	DAY 25' Engine Powered, Scissor Platform Lift.....	339.84
01 22 23 00-0072	WK 25' Engine Powered, Scissor Platform Lift.....	664.58
01 22 23 00-0073	MO 25' Engine Powered, Scissor Platform Lift.....	1,623.68
01 22 23 00-0074	DAY 33' Engine Powered, Scissor Platform Lift.....	347.39
01 22 23 00-0075	WK 33' Engine Powered, Scissor Platform Lift.....	792.96
01 22 23 00-0076	MO 33' Engine Powered, Scissor Platform Lift.....	1,736.96
01 22 23 00-0077	DAY 40' Engine Powered, Scissor Platform Lift.....	385.15
01 22 23 00-0078	WK 40' Engine Powered, Scissor Platform Lift.....	883.58
01 22 23 00-0079	MO 40' Engine Powered, Scissor Platform Lift.....	1,963.52
01 22 23 00-0080	DAY 43' Engine Powered, Scissor Platform Lift.....	407.81
01 22 23 00-0081	WK 43' Engine Powered, Scissor Platform Lift.....	951.55
01 22 23 00-0082	MO 43' Engine Powered, Scissor Platform Lift.....	2,341.12
01 22 23 00-0083	DAY 50' Engine Powered, Scissor Platform Lift.....	762.75
01 22 23 00-0084	WK 50' Engine Powered, Scissor Platform Lift.....	1,676.54
01 22 23 00-0085	MO 50' Engine Powered, Scissor Platform Lift.....	4,123.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0086 Personnel Lifts (01 22 23 00-0001)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.		
01 22 23 00-0087 DAY 24', Push-Type, Electric Single Man Personnel Lift	104.99	
01 22 23 00-0088 WK 24', Push-Type, Electric Single Man Personnel Lift	297.48	
01 22 23 00-0089 MO 24', Push-Type, Electric Single Man Personnel Lift	600.80	
01 22 23 00-0090 DAY 30', Push-Type, Electric Single Man Personnel Lift	145.82	
01 22 23 00-0091 WK 30', Push-Type, Electric Single Man Personnel Lift	309.15	
01 22 23 00-0092 MO 30', Push-Type, Electric Single Man Personnel Lift	1,049.94	
01 22 23 00-0093 DAY 36', Push-Type, Electric Single Man Personnel Lift	244.99	
01 22 23 00-0094 WK 36', Push-Type, Electric Single Man Personnel Lift	594.97	
01 22 23 00-0095 MO 36', Push-Type, Electric Single Man Personnel Lift	1,738.23	
01 22 23 00-0096 DAY 40', Push-Type, Electric Single Man Personnel Lift	262.48	
01 22 23 00-0097 WK 40', Push-Type, Electric Single Man Personnel Lift	653.30	
01 22 23 00-0098 MO 40', Push-Type, Electric Single Man Personnel Lift	1,965.72	
01 22 23 00-0099 DAY 15', Self-Propelled, Electric Single Man Personnel Lift	139.99	
01 22 23 00-0100 WK 15', Self-Propelled, Electric Single Man Personnel Lift	279.98	
01 22 23 00-0101 MO 15', Self-Propelled, Electric Single Man Personnel Lift	559.97	
01 22 23 00-0102 DAY 20', Self-Propelled, Electric Single Man Personnel Lift	139.99	
01 22 23 00-0103 WK 20', Self-Propelled, Electric Single Man Personnel Lift	279.98	
01 22 23 00-0104 MO 20', Self-Propelled, Electric Single Man Personnel Lift	582.13	
01 22 23 00-0105 Bucket Trucks (01 22 23 00-0001)		
Note: Includes full-time operator, delivery, and removal.		
01 22 23 00-0106 DAY 29' Bucket Truck With Full-Time Operator	1,112.74	
For Equipment Without Operator, Deduct	-597.12	
01 22 23 00-0107 WK 29' Bucket Truck With Full-Time Operator	4,532.46	
For Equipment Without Operator, Deduct	-2,985.58	
01 22 23 00-0108 MO 29' Bucket Truck With Full-Time Operator	16,806.36	
For Equipment Without Operator, Deduct	-12,868.86	
01 22 23 00-0109 DAY 38' Bucket Truck With Full-Time Operator	1,178.37	
For Equipment Without Operator, Deduct	-597.12	
01 22 23 00-0110 WK 38' Bucket Truck With Full-Time Operator	4,743.39	
For Equipment Without Operator, Deduct	-2,985.58	
01 22 23 00-0111 MO 38' Bucket Truck With Full-Time Operator	17,368.86	
For Equipment Without Operator, Deduct	-12,868.86	
01 22 23 00-0112 DAY 48' Bucket Truck With Full-Time Operator	1,347.12	
For Equipment Without Operator, Deduct	-597.12	
01 22 23 00-0113 WK 48' Bucket Truck With Full-Time Operator	5,048.08	
For Equipment Without Operator, Deduct	-2,985.58	
01 22 23 00-0114 MO 48' Bucket Truck With Full-Time Operator	18,025.11	
For Equipment Without Operator, Deduct	-12,868.86	
01 22 23 00-0115 DAY 62' Bucket Truck With Full-Time Operator	1,722.12	
For Equipment Without Operator, Deduct	-597.12	
01 22 23 00-0116 WK 62' Bucket Truck With Full-Time Operator	6,266.83	
For Equipment Without Operator, Deduct	-2,985.58	
01 22 23 00-0117 MO 62' Bucket Truck With Full-Time Operator	21,306.36	
For Equipment Without Operator, Deduct	-12,868.86	
01 22 23 00-0118 DAY 85' Bucket Truck With Full-Time Operator	1,909.62	
For Equipment Without Operator, Deduct	-597.12	
01 22 23 00-0119 WK 85' Bucket Truck With Full-Time Operator	6,923.08	
For Equipment Without Operator, Deduct	-2,985.58	
01 22 23 00-0120 MO 85' Bucket Truck With Full-Time Operator	23,650.11	
For Equipment Without Operator, Deduct	-12,868.86	
01 22 23 00-0121 Day 105' Bucket Truck With Full-Time Operator	2,003.37	
For Equipment Without Operator, Deduct	-597.12	
01 22 23 00-0122 WK 105' Bucket Truck With Full-Time Operator	7,204.33	
For Equipment Without Operator, Deduct	-2,985.58	
01 22 23 00-0123 MO 105' Bucket Truck With Full-Time Operator	23,875.13	
For Equipment Without Operator, Deduct	-12,868.88	
01 22 23 00-0124 Air Equipment (01 22 23)		
01 22 23 00-0125 Air Compressors (01 22 23 00-0124)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0126 DAY 100 CFM Diesel Powered Portable Air Compressor	161.34	
01 22 23 00-0127 WK 100 CFM Diesel Powered Portable Air Compressor	484.02	
01 22 23 00-0128 MO 100 CFM Diesel Powered Portable Air Compressor	1,344.50	
01 22 23 00-0129 DAY 130 CFM Diesel Powered Portable Air Compressor	193.61	
01 22 23 00-0130 WK 130 CFM Diesel Powered Portable Air Compressor	570.07	
01 22 23 00-0131 MO 130 CFM Diesel Powered Portable Air Compressor	1,613.40	
01 22 23 00-0132 DAY 185 CFM Diesel Powered Portable Air Compressor	258.14	
01 22 23 00-0133 WK 185 CFM Diesel Powered Portable Air Compressor	580.82	
01 22 23 00-0134 MO 185 CFM Diesel Powered Portable Air Compressor	1,279.96	
01 22 23 00-0135 DAY 375 CFM Diesel Powered Portable Air Compressor	365.70	
01 22 23 00-0136 WK 375 CFM Diesel Powered Portable Air Compressor	925.02	
01 22 23 00-0137 MO 375 CFM Diesel Powered Portable Air Compressor	2,204.98	
01 22 23 00-0138 DAY 600 CFM Diesel Powered Portable Air Compressor	813.15	
01 22 23 00-0139 WK 600 CFM Diesel Powered Portable Air Compressor	1,957.59	
01 22 23 00-0140 MO 600 CFM Diesel Powered Portable Air Compressor	4,878.92	
01 22 23 00-0141 DAY 750 CFM Diesel Powered Portable Air Compressor	978.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0142 WK 750 CFM Diesel Powered Portable Air Compressor	2,409.34	
01 22 23 00-0143 MO 750 CFM Diesel Powered Portable Air Compressor	5,915.80	
01 22 23 00-0144 DAY 825 CFM Diesel Powered Portable Air Compressor	978.80	
01 22 23 00-0145 WK 825 CFM Diesel Powered Portable Air Compressor	2,409.34	
01 22 23 00-0146 MO 825 CFM Diesel Powered Portable Air Compressor	5,915.80	
01 22 23 00-0147 DAY 1,300 CFM Diesel Powered Portable Air Compressor	1,140.14	
01 22 23 00-0148 WK 1,300 CFM Diesel Powered Portable Air Compressor	2,555.63	
01 22 23 00-0149 MO 1,300 CFM Diesel Powered Portable Air Compressor	6,815.00	
01 22 23 00-0150 DAY 1,600 CFM Diesel Powered Portable Air Compressor	1,419.79	
01 22 23 00-0151 WK 1,600 CFM Diesel Powered Portable Air Compressor	3,194.53	
01 22 23 00-0152 MO 1,600 CFM Diesel Powered Portable Air Compressor	8,518.75	
01 22 23 00-0153 Negative Air Machines (01 22 23 00-0124)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0154 DAY Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And HEPA Filter	87.42	
01 22 23 00-0155 WK Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And HEPA Filter	359.05	
01 22 23 00-0156 MO Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And HEPA Filter	1,084.96	
01 22 23 00-0157 EA Replacement HEPA Filter, 99.99% Efficient @ 0.3 Micron For Negative Air Machine	220.50	
Note: Required if over 800 hours operation.		
01 22 23 00-0158 LF Discharge Flexible Duct For Negative Air Machine	1.26	
01 22 23 00-0159 Compaction And Paving Equipment (01 22 23)		
01 22 23 00-0160 Pavers And Rollers (01 22 23 00-0159)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0161 Pavers (01 22 23 00-0160)		
01 22 23 00-0162 DAY 10' Wide Paving Machine With Full-Time Operator	1,667.48	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0163 WK 10' Wide Paving Machine With Full-Time Operator	7,402.65	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0164 MO 10' Wide Paving Machine With Full-Time Operator	29,145.38	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0165 Ride-On Self-Propelled, Rubber Tire Rollers (01 22 23 00-0160)		
01 22 23 00-0166 DAY 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,145.97	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0167 WK 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	4,913.52	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0168 MO 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	19,184.47	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0169 DAY 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,305.47	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0170 WK 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	6,099.62	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0171 MO 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	20,975.22	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0172 DAY 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	1,312.72	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0173 WK 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	5,628.37	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0174 MO 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	21,323.22	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0175 Ride-On Self-Propelled, Padfoot Rollers (01 22 23 00-0160)		
01 22 23 00-0176 DAY 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,211.22	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0177 WK 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	4,990.37	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0178 MO 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	19,626.72	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0179 DAY 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,515.72	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0180 WK 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,606.62	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0181 MO 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	21,569.72	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0182 DAY 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,588.22	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0183 WK 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,063.37	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0184 MO 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	22,845.72	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0185 Towed, Padfoot Rollers (01 22 23 00-0160)		
01 22 23 00-0186 DAY 48" Wide, 40" Diameter, Towed Padfoot Roller	137.75	
01 22 23 00-0187 WK 48" Wide, 40" Diameter, Towed Padfoot Roller	398.75	
01 22 23 00-0188 MO 48" Wide, 40" Diameter, Towed Padfoot Roller	1,174.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0189	DAY		60" Wide, 60" Diameter, Towed Padfoot Roller	174.00	
01 22 23 00-0190	WK		60" Wide, 60" Diameter, Towed Padfoot Roller	485.75	
01 22 23 00-0191	MO		60" Wide, 60" Diameter, Towed Padfoot Roller	2,066.25	
01 22 23 00-0192			Static Rollers <small>(01 22 23 00-0160)</small>		
01 22 23 00-0193	DAY		5 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,247.47	
			<i>For Equipment Without Operator, Deduct</i>	-732.72	
01 22 23 00-0194	WK		5 Ton, 2 Drum Articulated Roller With Full-Time Operator	5,302.12	
			<i>For Equipment Without Operator, Deduct</i>	-3,663.62	
01 22 23 00-0195	MO		5 Ton, 2 Drum Articulated Roller With Full-Time Operator	20,648.97	
			<i>For Equipment Without Operator, Deduct</i>	-15,791.47	
01 22 23 00-0196	DAY		8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,406.97	
			<i>For Equipment Without Operator, Deduct</i>	-732.72	
01 22 23 00-0197	WK		8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	5,737.12	
			<i>For Equipment Without Operator, Deduct</i>	-3,663.62	
01 22 23 00-0198	MO		8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	21,852.47	
			<i>For Equipment Without Operator, Deduct</i>	-15,791.47	
01 22 23 00-0199			Ride-On Self-Propelled, Smooth Drum Vibratory Rollers <small>(01 22 23 00-0160)</small>		
01 22 23 00-0200	DAY		1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,015.47	
			<i>For Equipment Without Operator, Deduct</i>	-732.72	
01 22 23 00-0201	WK		1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	4,490.12	
			<i>For Equipment Without Operator, Deduct</i>	-3,663.62	
01 22 23 00-0202	MO		1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	17,966.47	
			<i>For Equipment Without Operator, Deduct</i>	-15,791.47	
01 22 23 00-0203	DAY		3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,124.22	
			<i>For Equipment Without Operator, Deduct</i>	-732.72	
01 22 23 00-0204	WK		3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	4,816.37	
			<i>For Equipment Without Operator, Deduct</i>	-3,663.62	
01 22 23 00-0205	DAY		5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,196.72	
			<i>For Equipment Without Operator, Deduct</i>	-732.72	
01 22 23 00-0206	WK		5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,033.87	
			<i>For Equipment Without Operator, Deduct</i>	-3,663.62	
01 22 23 00-0207	MO		5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	19,416.47	
			<i>For Equipment Without Operator, Deduct</i>	-15,791.47	
01 22 23 00-0208	DAY		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,290.97	
			<i>For Equipment Without Operator, Deduct</i>	-732.72	
01 22 23 00-0209	WK		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,309.37	
			<i>For Equipment Without Operator, Deduct</i>	-3,663.62	
01 22 23 00-0210	MO		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	20,134.22	
			<i>For Equipment Without Operator, Deduct</i>	-15,791.47	
01 22 23 00-0211	DAY		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,479.47	
			<i>For Equipment Without Operator, Deduct</i>	-732.72	
01 22 23 00-0212	WK		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,860.37	
			<i>For Equipment Without Operator, Deduct</i>	-3,663.62	
01 22 23 00-0213	MO		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	21,591.47	
			<i>For Equipment Without Operator, Deduct</i>	-15,791.47	
01 22 23 00-0214			Steel Roadway Plates <small>(01 22 23 00-0159)</small>		
			Note: 3 day minimum. Excludes delivery. See CSI section 01 71 13 00-0001 for material delivery on truck.		
01 22 23 00-0215	EA		Mobilization of Steel Roadway Plates	378.86	
			Note: Mobilization for each site location.		
01 22 23 00-0216	EA		Place And Remove Steel Roadway Plates	43.61	
01 22 23 00-0217	DAY		1" x 4' x 8' Steel Plate	24.47	
01 22 23 00-0218	WK		1" x 4' x 8' Steel Plate	57.77	
01 22 23 00-0219	MO		1" x 4' x 8' Steel Plate	76.03	
01 22 23 00-0220	DAY		1" x 4' x 10' Steel Plate	32.63	
01 22 23 00-0221	WK		1" x 4' x 10' Steel Plate	73.41	
01 22 23 00-0222	MO		1" x 4' x 10' Steel Plate	89.72	
01 22 23 00-0223	DAY		1" x 5' x 10' Steel Plate	33.98	
01 22 23 00-0224	WK		1" x 5' x 10' Steel Plate	76.81	
01 22 23 00-0225	MO		1" x 5' x 10' Steel Plate	203.91	
01 22 23 00-0226	DAY		1" x 6' x 8' Steel Plate	21.75	
01 22 23 00-0227	WK		1" x 6' x 8' Steel Plate	48.94	
01 22 23 00-0228	MO		1" x 6' x 8' Steel Plate	130.50	
01 22 23 00-0229	DAY		1" x 6' x 10' Steel Plate	40.78	
01 22 23 00-0230	WK		1" x 6' x 10' Steel Plate	53.70	
01 22 23 00-0231	MO		1" x 6' x 10' Steel Plate	143.42	
01 22 23 00-0232	DAY		1" x 6' x 12' Steel Plate	57.09	
01 22 23 00-0233	WK		1" x 6' x 12' Steel Plate	73.07	
01 22 23 00-0234	MO		1" x 6' x 12' Steel Plate	197.79	
01 22 23 00-0235	DAY		1" x 8' x 10' Steel Plate	36.02	
01 22 23 00-0236	WK		1" x 8' x 10' Steel Plate	80.88	
01 22 23 00-0237	MO		1" x 8' x 10' Steel Plate	215.46	
01 22 23 00-0238	DAY		1" x 8' x 12' Steel Plate	65.25	
01 22 23 00-0239	WK		1" x 8' x 12' Steel Plate	80.88	
01 22 23 00-0240	MO		1" x 8' x 12' Steel Plate	391.51	
01 22 23 00-0241	DAY		1" x 8' x 16' Steel Plate	87.00	
01 22 23 00-0242	WK		1" x 8' x 16' Steel Plate	195.75	

01	General Requirements
01 20	Price And Payment Procedures
01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0243 MO 1" x 8' x 16' Steel Plate	522.01	
01 22 23 00-0244 DAY 1-1/4" x 8' x 10' Steel Plate	43.23	
01 22 23 00-0245 WK 1-1/4" x 8' x 10' Steel Plate	97.06	
01 22 23 00-0246 MO 1-1/4" x 8' x 10' Steel Plate	258.56	
01 22 23 00-0247 DAY 1-1/2" x 8' x 15' Steel Plate	100.05	
01 22 23 00-0248 WK 1-1/2" x 8' x 15' Steel Plate	225.12	
01 22 23 00-0249 MO 1-1/2" x 8' x 15' Steel Plate	600.31	
01 22 23 00-0250 LF Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate.....	1.73	0.86
01 22 23 00-0251 EA Remove And Reset Steel Roadway Plate.....	24.22	
01 22 23 00-0252 Street Sweepers (01 22 23 00-0159)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0253 DAY 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	897.89	
For Equipment Without Operator, Deduct	-692.85	
01 22 23 00-0254 WK 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	4,276.76	
For Equipment Without Operator, Deduct	-3,464.26	
01 22 23 00-0255 MO 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	17,826.93	
For Equipment Without Operator, Deduct	-14,932.17	
01 22 23 00-0256 DAY Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	1,637.21	
Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
For Equipment Without Operator, Deduct	-692.85	
01 22 23 00-0257 WK Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	7,246.93	
Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
For Equipment Without Operator, Deduct	-3,464.26	
01 22 23 00-0258 MO Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	28,431.61	
Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
For Equipment Without Operator, Deduct	-14,932.17	
01 22 23 00-0259 Earthmoving Equipment (01 22 23)		
01 22 23 00-0260 Skid-Steer Loaders (01 22 23 00-0259)		
Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.		
01 22 23 00-0261 DAY 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	942.13	
For Equipment Without Operator, Deduct	-692.85	
01 22 23 00-0262 WK 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	4,118.22	
For Equipment Without Operator, Deduct	-3,464.26	
01 22 23 00-0263 MO 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	16,507.10	
For Equipment Without Operator, Deduct	-14,932.17	
01 22 23 00-0264 DAY 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	1,007.84	
For Equipment Without Operator, Deduct	-692.85	
01 22 23 00-0265 WK 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	4,237.12	
For Equipment Without Operator, Deduct	-3,464.26	
01 22 23 00-0266 MO 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	16,767.85	
For Equipment Without Operator, Deduct	-14,932.17	
01 22 23 00-0267 DAY 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	1,026.61	
For Equipment Without Operator, Deduct	-692.85	
01 22 23 00-0268 WK 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	4,408.18	
For Equipment Without Operator, Deduct	-3,464.26	
01 22 23 00-0269 MO 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	17,221.55	
For Equipment Without Operator, Deduct	-14,932.17	
01 22 23 00-0270 DAY 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,099.62	
For Equipment Without Operator, Deduct	-692.85	
01 22 23 00-0271 WK 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	4,648.06	
For Equipment Without Operator, Deduct	-3,464.26	
01 22 23 00-0272 MO 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	18,014.23	
For Equipment Without Operator, Deduct	-14,932.17	
01 22 23 00-0273 DAY 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,224.78	
For Equipment Without Operator, Deduct	-692.85	
01 22 23 00-0274 WK 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	5,122.63	
For Equipment Without Operator, Deduct	-3,464.26	
01 22 23 00-0275 MO 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	19,182.39	
For Equipment Without Operator, Deduct	-14,932.17	
01 22 23 00-0276 DAY Hydraulic Hammer Attachment For Skid-Steer Loaders	208.60	
01 22 23 00-0277 WK Hydraulic Hammer Attachment For Skid-Steer Loaders	693.60	
01 22 23 00-0278 MO Hydraulic Hammer Attachment For Skid-Steer Loaders	1,846.11	
01 22 23 00-0279 DAY Forklift Attachment For Skid-Steer Loaders.....	44.85	
01 22 23 00-0280 WK Forklift Attachment For Skid-Steer Loaders	119.94	
01 22 23 00-0281 MO Forklift Attachment For Skid-Steer Loaders	338.98	
01 22 23 00-0282 DAY Backhoe Attachment For Skid-Steer Loaders.....	99.08	
01 22 23 00-0283 WK Backhoe Attachment For Skid-Steer Loaders.....	237.80	
01 22 23 00-0284 MO Backhoe Attachment For Skid-Steer Loaders.....	591.38	
01 22 23 00-0285 DAY Broom Attachment For Skid-Steer Loaders	98.04	
01 22 23 00-0286 WK Broom Attachment For Skid-Steer Loaders	265.96	
01 22 23 00-0287 MO Broom Attachment For Skid-Steer Loaders	704.02	
01 22 23 00-0288 DAY Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders.....	85.53	
01 22 23 00-0289 WK Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders.....	235.72	
01 22 23 00-0290 MO Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders.....	643.53	
01 22 23 00-0291 DAY Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	23.57	
01 22 23 00-0292 WK Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	61.67	
01 22 23 00-0293 MO Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	181.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0294 DAY >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	31.74	
01 22 23 00-0295 WK >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	78.90	
01 22 23 00-0296 MO >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	235.81	
01 22 23 00-0297 DAY Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	46.25	
01 22 23 00-0298 WK Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	140.59	
01 22 23 00-0299 MO Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	417.20	
01 22 23 00-0300 DAY 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	9.39	
01 22 23 00-0301 WK 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	21.90	
01 22 23 00-0302 MO 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	58.41	
01 22 23 00-0303 Bulldozers (01 22 23 00-0259)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0304 DAY 70 HP, D3 Bulldozer With Full-Time Operator	1,050.27	
For Equipment Without Operator, Deduct		-732.72
01 22 23 00-0305 WK 70 HP, D3 Bulldozer With Full-Time Operator	4,915.84	
For Equipment Without Operator, Deduct		-3,663.62
01 22 23 00-0306 MO 70 HP, D3 Bulldozer With Full-Time Operator	19,506.20	
For Equipment Without Operator, Deduct		-15,791.47
01 22 23 00-0307 DAY 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator.....	1,200.06	
For Equipment Without Operator, Deduct		-732.72
01 22 23 00-0308 WK 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator.....	5,520.98	
For Equipment Without Operator, Deduct		-3,663.62
01 22 23 00-0309 MO 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator.....	21,363.57	
For Equipment Without Operator, Deduct		-15,791.47
01 22 23 00-0310 DAY 140 HP, D6 Bulldozer With Full-Time Operator	1,625.45	
For Equipment Without Operator, Deduct		-732.72
01 22 23 00-0311 WK 140 HP, D6 Bulldozer With Full-Time Operator	7,222.57	
For Equipment Without Operator, Deduct		-3,663.62
01 22 23 00-0312 MO 140 HP, D6 Bulldozer With Full-Time Operator	26,456.34	
For Equipment Without Operator, Deduct		-15,791.47
01 22 23 00-0313 DAY 200 HP, D7 Bulldozer With Full-Time Operator	2,002.92	
For Equipment Without Operator, Deduct		-732.72
01 22 23 00-0314 WK 200 HP, D7 Bulldozer With Full-Time Operator	8,738.42	
For Equipment Without Operator, Deduct		-3,663.62
01 22 23 00-0315 MO 200 HP, D7 Bulldozer With Full-Time Operator	31,009.88	
For Equipment Without Operator, Deduct		-15,791.47
01 22 23 00-0316 DAY 335 HP, D8 Bulldozer With Full-Time Operator	2,452.28	
For Equipment Without Operator, Deduct		-732.72
01 22 23 00-0317 WK 335 HP, D8 Bulldozer With Full-Time Operator	10,535.87	
For Equipment Without Operator, Deduct		-3,663.62
01 22 23 00-0318 MO 335 HP, D8 Bulldozer With Full-Time Operator	36,402.23	
For Equipment Without Operator, Deduct		-15,791.47
01 22 23 00-0319 DAY 460 HP, D9 Bulldozer With Full-Time Operator	2,703.92	
For Equipment Without Operator, Deduct		-732.72
01 22 23 00-0320 WK 460 HP, D9 Bulldozer With Full-Time Operator	11,536.45	
For Equipment Without Operator, Deduct		-3,663.62
01 22 23 00-0321 MO 460 HP, D9 Bulldozer With Full-Time Operator	39,397.98	
For Equipment Without Operator, Deduct		-15,791.47
01 22 23 00-0322 Motor Scraper (01 22 23 00-0259)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0323 DAY 11 CY Motor Scraper-Hauler With Full-Time Operator	1,725.88	
For Equipment Without Operator, Deduct		-732.72
01 22 23 00-0324 WK 11 CY Motor Scraper-Hauler With Full-Time Operator	7,636.28	
For Equipment Without Operator, Deduct		-3,663.62
01 22 23 00-0325 MO 11 CY Motor Scraper-Hauler With Full-Time Operator	27,695.85	
For Equipment Without Operator, Deduct		-15,791.47
01 22 23 00-0326 DAY 18 CY Motor Scraper-Hauler With Full-Time Operator	2,127.23	
For Equipment Without Operator, Deduct		-732.72
01 22 23 00-0327 WK 18 CY Motor Scraper-Hauler With Full-Time Operator	9,241.67	
For Equipment Without Operator, Deduct		-3,663.62
01 22 23 00-0328 MO 18 CY Motor Scraper-Hauler With Full-Time Operator	32,525.62	
For Equipment Without Operator, Deduct		-15,791.47
01 22 23 00-0329 DAY 24 CY Motor Scraper-Hauler With Full-Time Operator	2,514.98	
For Equipment Without Operator, Deduct		-732.72
01 22 23 00-0330 WK 24 CY Motor Scraper-Hauler With Full-Time Operator	10,785.84	
For Equipment Without Operator, Deduct		-3,663.62
01 22 23 00-0331 MO 24 CY Motor Scraper-Hauler With Full-Time Operator	37,151.32	
For Equipment Without Operator, Deduct		-15,791.47
01 22 23 00-0332 Hydraulic Excavators (01 22 23 00-0259)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0333 DAY 3/8 CY Hydraulic Excavator With Full-Time Operator.....	1,083.18	
For Equipment Without Operator, Deduct		-732.72
01 22 23 00-0334 WK 3/8 CY Hydraulic Excavator With Full-Time Operator.....	4,903.21	
For Equipment Without Operator, Deduct		-3,663.62
01 22 23 00-0335 MO 3/8 CY Hydraulic Excavator With Full-Time Operator.....	19,945.07	
For Equipment Without Operator, Deduct		-15,791.47
01 22 23 00-0336 DAY 1/2 CY Hydraulic Excavator With Full-Time Operator.....	1,181.83	
For Equipment Without Operator, Deduct		-732.72

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0337	WK		1/2 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,338.04 -3,663.62	
01 22 23 00-0338	MO		1/2 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,684.39 -15,791.47	
01 22 23 00-0339	DAY		5/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,212.98 -732.72	
01 22 23 00-0340	WK		5/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,500.29 -3,663.62	
01 22 23 00-0341	MO		5/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,969.95 -15,791.47	
01 22 23 00-0342	DAY		3/4 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,245.43 -732.72	
01 22 23 00-0343	WK		3/4 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,649.56 -3,663.62	
01 22 23 00-0344	MO		3/4 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	22,255.51 -15,791.47	
01 22 23 00-0345	DAY		7/8 To 1 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,271.39 -732.72	
01 22 23 00-0346	WK		7/8 To 1 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,805.32 -3,663.62	
01 22 23 00-0347	MO		7/8 To 1 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	22,541.07 -15,791.47	
01 22 23 00-0348	DAY		1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,621.85 -732.72	
01 22 23 00-0349	WK		1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,200.67 -3,663.62	
01 22 23 00-0350	MO		1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	26,402.62 -15,791.47	
01 22 23 00-0351	DAY		1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,673.77 -732.72	
01 22 23 00-0352	WK		1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,427.82 -3,663.62	
01 22 23 00-0353	MO		1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	27,084.07 -15,791.47	
01 22 23 00-0354	DAY		1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,771.12 -732.72	
01 22 23 00-0355	WK		1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,817.22 -3,663.62	
01 22 23 00-0356	MO		1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	28,252.27 -15,791.47	
01 22 23 00-0357	DAY		2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,881.45 -732.72	
01 22 23 00-0358	WK		2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,252.05 -3,663.62	
01 22 23 00-0359	MO		2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	29,550.27 -15,791.47	
01 22 23 00-0360	DAY		2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,913.90 -732.72	
01 22 23 00-0361	WK		2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,381.85 -3,663.62	
01 22 23 00-0362	MO		2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	29,939.67 -15,791.47	
01 22 23 00-0363	DAY		3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,225.42 -732.72	
01 22 23 00-0364	WK		3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,634.42 -3,663.62	
01 22 23 00-0365	MO		3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	33,703.87 -15,791.47	
01 22 23 00-0366	DAY		4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,673.23 -732.72	
01 22 23 00-0367	WK		4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,412.68 -3,663.62	
01 22 23 00-0368	MO		4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	39,025.67 -15,791.47	
01 22 23 00-0369	DAY		6 To 11 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,224.88 -732.72	
01 22 23 00-0370	WK		6 To 11 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	13,619.28 -3,663.62	
01 22 23 00-0371	MO		6 To 11 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	45,645.47 -15,791.47	
01 22 23 00-0372	DAY		Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,797.08 -732.72	
01 22 23 00-0373	WK		Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,908.08 -3,663.62	
01 22 23 00-0374	MO		Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	28,511.87 -15,791.47	
01 22 23 00-0375	DAY		Thumbs Or Grapple Attachment For Hydraulic Excavators	90.86	
01 22 23 00-0376	WK		Thumbs Or Grapple Attachment For Hydraulic Excavators	350.46	
01 22 23 00-0377	MO		Thumbs Or Grapple Attachment For Hydraulic Excavators	1,038.40	
01 22 23 00-0378	DAY		1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	402.38	
01 22 23 00-0379	WK		1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	1,064.36	
01 22 23 00-0380	MO		1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	2,978.91	
01 22 23 00-0381	DAY		1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	623.04	
01 22 23 00-0382	WK		1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	1,590.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0383 MO 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	4,134.13	
01 22 23 00-0384 DAY 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	869.66	
01 22 23 00-0385 WK 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	2,342.89	
01 22 23 00-0386 MO 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	6,567.88	
01 22 23 00-0387 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators.....	181.72	
01 22 23 00-0388 WK 24" Compaction Wheel Attachment For Hydraulic Excavators.....	726.88	
01 22 23 00-0389 MO 24" Compaction Wheel Attachment For Hydraulic Excavators.....	2,180.64	
01 22 23 00-0390 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators.....	259.60	
01 22 23 00-0391 WK 36" Compaction Wheel Attachment For Hydraulic Excavators.....	1,038.40	
01 22 23 00-0392 MO 36" Compaction Wheel Attachment For Hydraulic Excavators.....	3,115.20	
01 22 23 00-0393 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators.....	285.56	
01 22 23 00-0394 WK 48" Compaction Wheel Attachment For Hydraulic Excavators.....	1,129.26	
01 22 23 00-0395 MO 48" Compaction Wheel Attachment For Hydraulic Excavators.....	3,374.80	
01 22 23 00-0396 Mini-Excavators <small>(01 22 23 00-0259)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0397 DAY 2,000 LB Mini-Excavator With Full-Time Operator.....	1,005.30	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0398 WK 2,000 LB Mini-Excavator With Full-Time Operator.....	4,435.93	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0399 MO 2,000 LB Mini-Excavator With Full-Time Operator.....	17,491.85	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0400 DAY 3,500 LB Mini-Excavator With Full-Time Operator.....	1,011.79	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0401 WK 3,500 LB Mini-Excavator With Full-Time Operator.....	4,455.40	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0402 MO 3,500 LB Mini-Excavator With Full-Time Operator.....	17,900.72	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0403 DAY 6,000 LB Mini-Excavator With Full-Time Operator.....	1,044.24	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0404 WK 6,000 LB Mini-Excavator With Full-Time Operator.....	4,546.26	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0405 MO 6,000 LB Mini-Excavator With Full-Time Operator.....	17,959.13	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0406 DAY 7,500 LB Mini-Excavator With Full-Time Operator.....	1,057.22	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0407 WK 7,500 LB Mini-Excavator With Full-Time Operator.....	4,591.69	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0408 MO 7,500 LB Mini-Excavator With Full-Time Operator.....	17,985.09	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0409 DAY 9,500 LB Mini-Excavator With Full-Time Operator.....	1,135.10	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0410 WK 9,500 LB Mini-Excavator With Full-Time Operator.....	4,656.59	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0411 MO 9,500 LB Mini-Excavator With Full-Time Operator.....	18,737.93	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0412 DAY 11,000 LB Mini-Excavator With Full-Time Operator.....	1,141.59	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0413 WK 11,000 LB Mini-Excavator With Full-Time Operator.....	4,981.09	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0414 MO 11,000 LB Mini-Excavator With Full-Time Operator.....	18,770.38	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0415 Gradall, Telescopic Hydraulic Excavators <small>(01 22 23 00-0259)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0416 DAY Gradall, Telescopic Hydraulic Excavator With Full-Time Operator.....	2,251.24	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0417 WK Gradall, Telescopic Hydraulic Excavator With Full-Time Operator.....	9,730.92	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0418 MO Gradall, Telescopic Hydraulic Excavator With Full-Time Operator.....	37,446.52	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0419 Road Graders <small>(01 22 23 00-0259)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0420 DAY 60 HP Road Grader With Full-Time Operator.....	1,295.15	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0421 WK 60 HP Road Grader With Full-Time Operator.....	5,185.07	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0422 MO 60 HP Road Grader With Full-Time Operator.....	20,341.39	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0423 DAY 80 HP Road Grader With Full-Time Operator.....	1,461.00	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0424 WK 80 HP Road Grader With Full-Time Operator.....	5,646.55	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0425 MO 80 HP Road Grader With Full-Time Operator.....	21,740.26	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0426 DAY 130 HP Road Grader With Full-Time Operator.....	1,348.69	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0427 WK 130 HP Road Grader With Full-Time Operator.....	6,127.50	
For Equipment Without Operator, Deduct	-3,663.62	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0428 MO 130 HP Road Grader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	24,596.60 -15,791.47	
01 22 23 00-0429 Loader-Backhoes With Standard Bucket <small>(01 22 23 00-0259)</small> Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0430 DAY 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,113.66 -732.72	
01 22 23 00-0431 WK 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,568.35 -3,663.62	
01 22 23 00-0432 MO 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	17,920.65 -15,791.47	
01 22 23 00-0433 DAY 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,154.48 -732.72	
01 22 23 00-0434 WK 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,711.20 -3,663.62	
01 22 23 00-0435 MO 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	18,791.37 -15,791.47	
01 22 23 00-0436 DAY 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,217.40 -732.72	
01 22 23 00-0437 WK 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,867.66 -3,663.62	
01 22 23 00-0438 MO 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	19,240.34 -15,791.47	
01 22 23 00-0439 DAY 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,498.00 -732.72	
01 22 23 00-0440 WK 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,704.37 -3,663.62	
01 22 23 00-0441 MO 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,634.82 -15,791.47	
01 22 23 00-0442 Heavy Duty Construction Loaders <small>(01 22 23 00-0259)</small> Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0443 DAY 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,114.98 -732.72	
01 22 23 00-0444 WK 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,175.04 -3,663.62	
01 22 23 00-0445 MO 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	20,319.84 -15,791.47	
01 22 23 00-0446 DAY 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,432.56 -732.72	
01 22 23 00-0447 WK 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,522.02 -3,663.62	
01 22 23 00-0448 MO 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	20,496.27 -15,791.47	
01 22 23 00-0449 DAY 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,503.13 -732.72	
01 22 23 00-0450 WK 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,710.21 -3,663.62	
01 22 23 00-0451 MO 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	20,966.75 -15,791.47	
01 22 23 00-0452 DAY 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,697.20 -732.72	
01 22 23 00-0453 WK 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,221.86 -3,663.62	
01 22 23 00-0454 MO 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	22,260.57 -15,791.47	
01 22 23 00-0455 DAY 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,197.09 -732.72	
01 22 23 00-0456 WK 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,509.33 -3,663.62	
01 22 23 00-0457 MO 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	33,316.85 -15,791.47	
01 22 23 00-0458 DAY 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,490.39 -732.72	
01 22 23 00-0459 WK 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	19,112.84 -3,663.62	
01 22 23 00-0460 MO 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	57,894.78 -15,791.47	
01 22 23 00-0461 Shoring <small>(01 22 23 00-0259)</small> Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0462 Aluminum Hydraulic Shoring <small>(01 22 23 00-0461)</small> Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.		
01 22 23 00-0463 WK 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	58.46	
01 22 23 00-0464 MO 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	172.44	
01 22 23 00-0465 WK Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	78.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0466 MO Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	231.33	
01 22 23 00-0467 WK Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	145.43	
01 22 23 00-0468 MO Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	429.01	
01 22 23 00-0469 EA Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores.....	21.92	
01 22 23 00-0470 EA Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores.....	35.07	
01 22 23 00-0471 EA Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores.....	58.44	

01 22 23 00-0472

Trench Boxes/Trench Shields (01 22 23 00-0259)

Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.

01 22 23 00-0473 WK 4' x 6' Trench Box With Up To 48" Spreaders.....	170.50	
01 22 23 00-0474 MO 4' x 6' Trench Box With Up To 48" Spreaders.....	511.50	
01 22 23 00-0475 WK 6' x 6' Trench Box With Up To 48" Spreaders.....	192.50	
01 22 23 00-0476 MO 6' x 6' Trench Box With Up To 48" Spreaders.....	577.50	
01 22 23 00-0477 WK 8' x 6' Trench Box With Up To 48" Spreaders.....	203.50	
01 22 23 00-0478 MO 8' x 6' Trench Box With Up To 48" Spreaders.....	610.50	
01 22 23 00-0479 WK 4' x 8' Trench Box With Up To 48" Spreaders.....	187.00	
01 22 23 00-0480 MO 4' x 8' Trench Box With Up To 48" Spreaders.....	561.00	
01 22 23 00-0481 WK 6' x 8' Trench Box With Up To 48" Spreaders.....	220.00	
01 22 23 00-0482 MO 6' x 8' Trench Box With Up To 48" Spreaders.....	660.00	
01 22 23 00-0483 WK 8' x 8' Trench Box With Up To 48" Spreaders.....	247.50	
01 22 23 00-0484 MO 8' x 8' Trench Box With Up To 48" Spreaders.....	742.50	
01 22 23 00-0485 WK 4' x 10' Trench Box With Up To 48" Spreaders.....	209.00	
01 22 23 00-0486 MO 4' x 10' Trench Box With Up To 48" Spreaders.....	627.00	
01 22 23 00-0487 WK 6' x 10' Trench Box With Up To 48" Spreaders.....	247.50	
01 22 23 00-0488 MO 6' x 10' Trench Box With Up To 48" Spreaders.....	742.50	
01 22 23 00-0489 WK 8' x 10' Trench Box With Up To 48" Spreaders.....	302.50	
01 22 23 00-0490 MO 8' x 10' Trench Box With Up To 48" Spreaders.....	902.00	
01 22 23 00-0491 WK 4' x 12' Trench Box With Up To 48" Spreaders.....	247.50	
01 22 23 00-0492 MO 4' x 12' Trench Box With Up To 48" Spreaders.....	742.50	
01 22 23 00-0493 WK 6' x 12' Trench Box With Up To 48" Spreaders.....	302.50	
01 22 23 00-0494 MO 6' x 12' Trench Box With Up To 48" Spreaders.....	907.50	
01 22 23 00-0495 WK 8' x 12' Trench Box With Up To 48" Spreaders.....	385.00	
01 22 23 00-0496 MO 8' x 12' Trench Box With Up To 48" Spreaders.....	1,155.00	
01 22 23 00-0497 WK 4' x 14' Trench Box With Up To 48" Spreaders.....	275.00	
01 22 23 00-0498 MO 4' x 14' Trench Box With Up To 48" Spreaders.....	825.00	
01 22 23 00-0499 WK 6' x 14' Trench Box With Up To 48" Spreaders.....	357.50	
01 22 23 00-0500 MO 6' x 14' Trench Box With Up To 48" Spreaders.....	1,072.50	
01 22 23 00-0501 WK 8' x 14' Trench Box With Up To 48" Spreaders.....	440.00	
01 22 23 00-0502 MO 8' x 14' Trench Box With Up To 48" Spreaders.....	1,320.00	
01 22 23 00-0503 WK 4' x 16' Trench Box With Up To 48" Spreaders.....	302.50	
01 22 23 00-0504 MO 4' x 16' Trench Box With Up To 48" Spreaders.....	907.50	
01 22 23 00-0505 WK 6' x 16' Trench Box With Up To 48" Spreaders.....	412.50	
01 22 23 00-0506 MO 6' x 16' Trench Box With Up To 48" Spreaders.....	1,237.50	
01 22 23 00-0507 WK 8' x 16' Trench Box With Up To 48" Spreaders.....	495.00	
01 22 23 00-0508 MO 8' x 16' Trench Box With Up To 48" Spreaders.....	1,485.00	
01 22 23 00-0509 WK 4' x 20' Trench Box With Up To 48" Spreaders.....	357.50	
01 22 23 00-0510 MO 4' x 20' Trench Box With Up To 48" Spreaders.....	1,072.50	
01 22 23 00-0511 WK 6' x 20' Trench Box With Up To 48" Spreaders.....	495.00	
01 22 23 00-0512 MO 6' x 20' Trench Box With Up To 48" Spreaders.....	1,485.00	
01 22 23 00-0513 WK 8' x 20' Trench Box With Up To 48" Spreaders.....	577.50	
01 22 23 00-0514 MO 8' x 20' Trench Box With Up To 48" Spreaders.....	1,732.50	
01 22 23 00-0515 WK 4' x 24' Trench Box With Up To 48" Spreaders.....	495.00	
01 22 23 00-0516 MO 4' x 24' Trench Box With Up To 48" Spreaders.....	1,485.00	
01 22 23 00-0517 WK 6' x 24' Trench Box With Up To 48" Spreaders.....	605.00	
01 22 23 00-0518 MO 6' x 24' Trench Box With Up To 48" Spreaders.....	1,815.00	
01 22 23 00-0519 WK 8' x 24' Trench Box With Up To 48" Spreaders.....	660.00	
01 22 23 00-0520 MO 8' x 24' Trench Box With Up To 48" Spreaders.....	1,980.00	
01 22 23 00-0521 WK For Spreaders >48" To 84", Add.....	16.50	
01 22 23 00-0522 MO For Spreaders >48" To 84", Add.....	49.50	
01 22 23 00-0523 WK For Spreaders >84" To 120", Add.....	99.00	
01 22 23 00-0524 MO For Spreaders >84" To 120", Add.....	297.00	
01 22 23 00-0525 WK For Spreaders >120", Add.....	209.00	
01 22 23 00-0526 MO For Spreaders >120", Add.....	627.00	
01 22 23 00-0527 WK 8' x 4' Manhole Box.....	259.88	
01 22 23 00-0528 MO 8' x 4' Manhole Box.....	779.63	
01 22 23 00-0529 WK 8' x 8' Manhole Box.....	371.25	
01 22 23 00-0530 MO 8' x 8' Manhole Box.....	1,113.75	

01 22 23 00-0531

Trenchers (01 22 23 00-0259)

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0532 DAY 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	1,063.38	
<i>For Equipment Without Operator, Deduct</i>	-732.72	
01 22 23 00-0533 WK 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	4,789.92	
<i>For Equipment Without Operator, Deduct</i>	-3,663.62	
01 22 23 00-0534 MO 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	18,891.37	
<i>For Equipment Without Operator, Deduct</i>	-15,791.47	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0535	DAY		5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,621.36 -732.72	
01 22 23 00-0536	WK		5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,670.52 -3,663.62	
01 22 23 00-0537	MO		5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	24,057.87 -15,791.47	
01 22 23 00-0538			Portable Sediment Tank <small>(01 22 23 00-0259)</small> Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0539	WK		Portable Sediment Tank	110.69	
01 22 23 00-0540	MO		Portable Sediment Tank	324.70	
01 22 23 00-0541			Heavy Equipment (Wood Ground Protection) Mats <small>(01 22 23 00-0259)</small> Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0259 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0542	DAY		14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	15.84	
01 22 23 00-0543	WK		14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	37.71	
01 22 23 00-0544	MO		14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	79.20	
01 22 23 00-0545	DAY		16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	16.63	
01 22 23 00-0546	WK		16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	39.60	
01 22 23 00-0547	MO		16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	83.16	
01 22 23 00-0548	Day		16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	13.46	
01 22 23 00-0549	WK		16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	31.68	
01 22 23 00-0550	MO		16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	67.32	
01 22 23 00-0551	Day		18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	15.05	
01 22 23 00-0552	WK		18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	35.64	
01 22 23 00-0553	MO		18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	75.24	
01 22 23 00-0554	Day		20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	16.63	
01 22 23 00-0555	WK		20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	39.60	
01 22 23 00-0556	MO		20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	83.16	
01 22 23 00-0557	Day		24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	18.22	
01 22 23 00-0558	WK		24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	43.37	
01 22 23 00-0559	MO		24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	91.08	
01 22 23 00-0560	Day		12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	14.26	
01 22 23 00-0561	WK		12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	39.60	
01 22 23 00-0562	MO		12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	71.28	
01 22 23 00-0563	Day		16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	16.63	
01 22 23 00-0564	WK		16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	39.60	
01 22 23 00-0565	MO		16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	83.16	
01 22 23 00-0566	Day		20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	19.80	
01 22 23 00-0567	WK		20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	43.56	
01 22 23 00-0568	MO		20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	99.00	
01 22 23 00-0569	Day		24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	21.38	
01 22 23 00-0570	WK		24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	50.91	
01 22 23 00-0571	MO		24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	106.92	
01 22 23 00-0572	Day		28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	22.97	
01 22 23 00-0573	WK		28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	54.69	
01 22 23 00-0574	MO		28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	114.84	
01 22 23 00-0575	Day		30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	23.76	
01 22 23 00-0576	WK		30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	56.57	
01 22 23 00-0577	MO		30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	118.80	
01 22 23 00-0578	Day		14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	-7.62	
01 22 23 00-0579	WK		14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	19.05	
01 22 23 00-0580	MO		14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	57.14	
01 22 23 00-0581	Day		14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	-9.11	
01 22 23 00-0582	WK		14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	22.77	
01 22 23 00-0583	MO		14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	68.31	
01 22 23 00-0584	Day		16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	10.40	
01 22 23 00-0585	WK		16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	26.00	
01 22 23 00-0586	MO		16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	78.01	
01 22 23 00-0587	Day		14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	11.09	
01 22 23 00-0588	WK		14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	27.72	
01 22 23 00-0589	MO		14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	83.16	
01 22 23 00-0590	Day		16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	12.67	
01 22 23 00-0591	WK		16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	31.68	
01 22 23 00-0592	MO		16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	95.04	
01 22 23 00-0593	Day		16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	14.56	
01 22 23 00-0594	WK		16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	36.41	
01 22 23 00-0595	MO		16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	109.22	
01 22 23 00-0596	Day		24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	11.20	
01 22 23 00-0597	WK		24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	28.01	
01 22 23 00-0598	MO		24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	84.03	
01 22 23 00-0599	Day		30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	15.17	
01 22 23 00-0600	WK		30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	37.92	
01 22 23 00-0601	MO		30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	113.77	
01 22 23 00-0602	Day		24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	13.12	
01 22 23 00-0603	WK		24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	32.79	
01 22 23 00-0604	MO		24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	98.37	
01 22 23 00-0605	Day		40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	21.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0606 WK 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	54.68	
01 22 23 00-0607 MO 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	164.05	
01 22 23 00-0608 Day 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	23.32	
01 22 23 00-0609 WK 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	58.29	
01 22 23 00-0610 MO 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	174.87	
01 22 23 00-0611 Electrical Equipment <small>(01 22 23)</small>		
01 22 23 00-0612 Tripod Mounted Floodlights <small>(01 22 23 00-0611)</small>		
<i>Note: Includes delivery to job site and pick-up when complete.</i>		
01 22 23 00-0613 DAY 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	56.65	
01 22 23 00-0614 WK 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	134.03	
01 22 23 00-0615 MO 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	283.27	
01 22 23 00-0616 DAY 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	56.65	
01 22 23 00-0617 WK 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	165.82	
01 22 23 00-0618 MO 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	490.54	
01 22 23 00-0619 DAY 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	63.56	
01 22 23 00-0620 WK 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	172.72	
01 22 23 00-0621 MO 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	421.45	
01 22 23 00-0622 Trailer Mounted Floodlights <small>(01 22 23 00-0611)</small>		
<i>Note: Includes delivery to job site and pick-up when complete. Excludes operator.</i>		
01 22 23 00-0623 DAY 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	158.91	
01 22 23 00-0624 WK 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	352.36	
01 22 23 00-0625 MO 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	759.99	
01 22 23 00-0626 Generator Sets <small>(01 22 23 00-0611)</small>		
01 22 23 00-0627 Portable, Gas Or Diesel Powered Generator Sets <small>(01 22 23 00-0626)</small>		
<i>Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0734 for reimbursable fuel fees.</i>		
01 22 23 00-0628 DAY 3.6 KW, 8 HP Gas Powered Generator Set.....	42.15	
<i>For LP Or NG Gas, Add</i>		
	5.27	
<i>For >160 To 320 Hours Usage Per Month, Add</i>		
	21.08	
01 22 23 00-0629 WK 3.6 KW, 8 HP Gas Powered Generator Set.....	151.95	
<i>For LP Or NG Gas, Add</i>		
	18.99	
01 22 23 00-0630 MO 3.6 KW, 8 HP Gas Powered Generator Set.....	421.53	
<i>For LP Or NG Gas, Add</i>		
	52.69	
01 22 23 00-0631 DAY 5 KW, 11 HP Gas Powered Generator Set.....	59.80	
<i>For LP Or NG Gas, Add</i>		
	7.48	
01 22 23 00-0632 WK 5 KW, 11 HP Gas Powered Generator Set.....	191.16	
<i>For LP Or NG Gas, Add</i>		
	23.90	
01 22 23 00-0633 MO 5 KW, 11 HP Gas Powered Generator Set.....	436.23	
<i>For LP Or NG Gas, Add</i>		
	54.53	
01 22 23 00-0634 DAY 6.5 KW, 13 HP Gas Powered Generator Set.....	76.46	
<i>For LP Or NG Gas, Add</i>		
	9.56	
01 22 23 00-0635 WK 6.5 KW, 13 HP Gas Powered Generator Set.....	205.86	
<i>For LP Or NG Gas, Add</i>		
	25.73	
01 22 23 00-0636 MO 6.5 KW, 13 HP Gas Powered Generator Set.....	568.57	
<i>For LP Or NG Gas, Add</i>		
	71.07	
01 22 23 00-0637 DAY 10 KW, 18 HP Gas Powered Generator Set.....	85.29	
<i>For LP Or NG Gas, Add</i>		
	10.66	
01 22 23 00-0638 WK 10 KW, 18 HP Gas Powered Generator Set.....	230.37	
<i>For LP Or NG Gas, Add</i>		
	28.80	
01 22 23 00-0639 MO 10 KW, 18 HP Gas Powered Generator Set.....	661.70	
<i>For LP Or NG Gas, Add</i>		
	82.71	
01 22 23 00-0640 Towable, Diesel Powered Generator Sets <small>(01 22 23 00-0626)</small>		
<i>Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0734 for reimbursable fuel fees.</i>		
01 22 23 00-0641 DAY 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	175.47	
<i>Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.</i>		
<i>For >8 To 16 Hours Usage Per Day, Add</i>		
	87.74	
<i>For >16 To 24 Hours Usage Per Day, Add</i>		
	175.47	
01 22 23 00-0642 WK 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	458.78	
<i>Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.</i>		
<i>For >40 To 80 Hours Usage Per Week, Add</i>		
	229.39	
<i>For >80 Hours Usage Per Week, Add</i>		
	458.78	
01 22 23 00-0643 MO 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,249.88	
<i>Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.</i>		
<i>For >160 To 320 Hours Usage Per Month, Add</i>		
	624.94	
<i>For >320 Hours Usage Per Month, Add</i>		
	1,249.88	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0644	DAY		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....318.25 Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	159.13	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	318.25	
01 22 23 00-0645	WK		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....944.47 Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	472.24	
			<i>For >80 Hours Usage Per Week, Add</i>	944.47	
01 22 23 00-0646	MO		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....1,950.54 Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			<i>For >160 To 320 Hours Usage Per Month, Add</i>	975.27	
			<i>For >320 Hours Usage Per Month, Add</i>	1,950.54	
01 22 23 00-0647	DAY		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....349.04 Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	174.52	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	349.04	
01 22 23 00-0648	WK		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....975.27 Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	487.64	
			<i>For >80 Hours Usage Per Week, Add</i>	975.27	
01 22 23 00-0649	MO		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....2,155.86 Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			<i>For >160 To 320 Hours Usage Per Month, Add</i>	1,077.93	
			<i>For >320 Hours Usage Per Month, Add</i>	2,155.86	
01 22 23 00-0650	DAY		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....374.71 Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	187.36	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	374.71	
01 22 23 00-0651	WK		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....1,026.60 Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	513.30	
			<i>For >80 Hours Usage Per Week, Add</i>	1,026.60	
01 22 23 00-0652	MO		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....2,463.84 Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			<i>For >160 To 320 Hours Usage Per Month, Add</i>	1,231.92	
			<i>For >320 Hours Usage Per Month, Add</i>	2,463.84	
01 22 23 00-0653	DAY		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....410.64 Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	205.32	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	410.64	
01 22 23 00-0654	WK		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....1,165.19 Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	582.60	
			<i>For >80 Hours Usage Per Week, Add</i>	1,165.19	
01 22 23 00-0655	MO		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....2,771.82 Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			<i>For >160 To 320 Hours Usage Per Month, Add</i>	1,385.91	
			<i>For >320 Hours Usage Per Month, Add</i>	2,771.82	
01 22 23 00-0656	DAY		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....461.97 Note: Fuel consumption: 100% load - 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	230.99	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	461.97	
01 22 23 00-0657	WK		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....1,231.92 Note: Fuel consumption: 100% load - 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	615.96	
			<i>For >80 Hours Usage Per Week, Add</i>	1,231.92	
01 22 23 00-0658	MO		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....3,079.80 Note: Fuel consumption: 100% load - 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
			<i>For >160 To 320 Hours Usage Per Month, Add</i>	1,539.90	
			<i>For >320 Hours Usage Per Month, Add</i>	3,079.80	
01 22 23 00-0659	DAY		100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....477.37 Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	238.69	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	477.37	
01 22 23 00-0660	WK		100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....1,283.25 Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	641.63	
			<i>For >80 Hours Usage Per Week, Add</i>	1,283.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0661 MO 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,490.44	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,745.22	
For >320 Hours Usage Per Month, Add	3,490.44	
01 22 23 00-0662 DAY 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	538.96	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	269.48	
For >16 To 24 Hours Usage Per Day, Add	538.96	
01 22 23 00-0663 WK 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,488.57	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	744.29	
For >80 Hours Usage Per Week, Add	1,488.57	
01 22 23 00-0664 MO 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,003.74	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,001.87	
For >320 Hours Usage Per Month, Add	4,003.74	
01 22 23 00-0665 DAY 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	564.63	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	282.32	
For >16 To 24 Hours Usage Per Day, Add	564.63	
01 22 23 00-0666 WK 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,565.56	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	782.78	
For >80 Hours Usage Per Week, Add	1,565.56	
01 22 23 00-0667 MO 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,414.38	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,207.19	
For >320 Hours Usage Per Month, Add	4,414.38	
01 22 23 00-0668 DAY 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	590.30	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	295.15	
For >16 To 24 Hours Usage Per Day, Add	590.30	
01 22 23 00-0669 WK 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,693.89	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	846.95	
For >80 Hours Usage Per Week, Add	1,693.89	
01 22 23 00-0670 MO 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,619.70	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,309.85	
For >320 Hours Usage Per Month, Add	4,619.70	
01 22 23 00-0671 DAY 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	615.96	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	307.98	
For >16 To 24 Hours Usage Per Day, Add	615.96	
01 22 23 00-0672 WK 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,796.55	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	898.28	
For >80 Hours Usage Per Week, Add	1,796.55	
01 22 23 00-0673 MO 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,825.02	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,412.51	
For >320 Hours Usage Per Month, Add	4,825.02	
01 22 23 00-0674 DAY 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	615.96	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	307.98	
For >16 To 24 Hours Usage Per Day, Add	615.96	
01 22 23 00-0675 WK 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,796.55	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	898.28	
For >80 Hours Usage Per Week, Add	1,796.55	
01 22 23 00-0676 MO 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,825.02	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,412.51	
For >320 Hours Usage Per Month, Add	4,825.02	
01 22 23 00-0677 DAY 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	846.94	
Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	423.47	
For >16 To 24 Hours Usage Per Day, Add	846.94	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0678	WK		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....2,104.53 Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,052.27 <i>For >80 Hours Usage Per Week, Add</i> 2,104.53		
01 22 23 00-0679	MO		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....6,159.60 Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 3,079.80 <i>For >320 Hours Usage Per Month, Add</i> 6,159.60		
01 22 23 00-0680	DAY		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....898.28 Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 449.14 <i>For >16 To 24 Hours Usage Per Day, Add</i> 898.28		
01 22 23 00-0681	WK		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....2,155.86 Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,077.93 <i>For >80 Hours Usage Per Week, Add</i> 2,155.86		
01 22 23 00-0682	MO		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....6,364.92 Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 3,182.46 <i>For >320 Hours Usage Per Month, Add</i> 6,364.92		
01 22 23 00-0683	DAY		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....949.60 Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 474.80 <i>For >16 To 24 Hours Usage Per Day, Add</i> 949.60		
01 22 23 00-0684	WK		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....2,207.19 Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,103.60 <i>For >80 Hours Usage Per Week, Add</i> 2,207.19		
01 22 23 00-0685	MO		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....6,570.24 Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 3,285.12 <i>For >320 Hours Usage Per Month, Add</i> 6,570.24		
01 22 23 00-0686	DAY		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....980.40 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 490.20 <i>For >16 To 24 Hours Usage Per Day, Add</i> 980.40		
01 22 23 00-0687	WK		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....2,361.18 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,180.59 <i>For >80 Hours Usage Per Week, Add</i> 2,361.18		
01 22 23 00-0688	MO		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....6,980.88 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 3,490.44 <i>For >320 Hours Usage Per Month, Add</i> 6,980.88		
01 22 23 00-0689	DAY		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....1,026.60 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 513.30 <i>For >16 To 24 Hours Usage Per Day, Add</i> 1,026.60		
01 22 23 00-0690	WK		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....2,669.16 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,334.58 <i>For >80 Hours Usage Per Week, Add</i> 2,669.16		
01 22 23 00-0691	MO		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....7,699.50 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 3,849.75 <i>For >320 Hours Usage Per Month, Add</i> 7,699.50		
01 22 23 00-0692	DAY		400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....1,559.96 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 779.98 <i>For >16 To 24 Hours Usage Per Day, Add</i> 1,559.96		
01 22 23 00-0693	WK		400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....4,033.23 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 2,016.62 <i>For >80 Hours Usage Per Week, Add</i> 4,033.23		
01 22 23 00-0694	MO		400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....10,666.40 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 5,333.20 <i>For >320 Hours Usage Per Month, Add</i> 10,666.40		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0695 DAY 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	1,999.95	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	999.98	
For >16 To 24 Hours Usage Per Day, Add	1,999.95	
01 22 23 00-0696 WK 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	5,199.87	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	2,599.94	
For >80 Hours Usage Per Week, Add	5,199.87	
01 22 23 00-0697 MO 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	11,999.70	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	5,999.85	
For >320 Hours Usage Per Month, Add	11,999.70	
01 22 23 00-0698 DAY 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,473.27	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	1,236.64	
For >16 To 24 Hours Usage Per Day, Add	2,473.27	
01 22 23 00-0699 WK 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	6,533.17	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	3,266.59	
For >80 Hours Usage Per Week, Add	6,533.17	
01 22 23 00-0700 MO 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	15,999.60	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	7,999.80	
For >320 Hours Usage Per Month, Add	15,999.60	
01 22 23 00-0701 DAY 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,673.27	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	1,336.64	
For >16 To 24 Hours Usage Per Day, Add	2,673.27	
01 22 23 00-0702 WK 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	6,159.85	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	3,079.93	
For >80 Hours Usage Per Week, Add	6,159.85	
01 22 23 00-0703 MO 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	18,479.54	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	9,239.77	
For >320 Hours Usage Per Month, Add	18,479.54	
01 22 23 00-0704 EA Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	778.94	
01 22 23 00-0705 EA 350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up	1,249.90	
01 22 23 00-0706 Cabling For Generator Sets <small>(01 22 23 00-0626)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0707 DAY #1 Banded Cable, 50' With Camlock Ends For Generator Set	22.59	
01 22 23 00-0708 WK #1 Banded Cable, 50' With Camlock Ends For Generator Set	39.52	
01 22 23 00-0709 MO #1 Banded Cable, 50' With Camlock Ends For Generator Set	118.57	
01 22 23 00-0710 DAY 50', 4/0 Cable With Camlock Ends For Generator Set.....	11.29	
01 22 23 00-0711 WK 50', 4/0 Cable With Camlock Ends For Generator Set.....	32.85	
01 22 23 00-0712 MO 50', 4/0 Cable With Camlock Ends For Generator Set.....	91.37	
01 22 23 00-0713 Resistive Loadbanks For Generator Sets <small>(01 22 23 00-0626)</small>		
Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0734 for reimbursable fuel fees.		
01 22 23 00-0714 DAY 100 KW A/C Resistive Loadbank.....	357.20	
01 22 23 00-0715 WK 100 KW A/C Resistive Loadbank.....	881.59	
01 22 23 00-0716 MO 100 KW A/C Resistive Loadbank.....	2,637.17	
01 22 23 00-0717 DAY 650 KW A/C Resistive Loadbank.....	601.91	
01 22 23 00-0718 WK 650 KW A/C Resistive Loadbank.....	1,609.66	
01 22 23 00-0719 MO 650 KW A/C Resistive Loadbank.....	4,103.95	
01 22 23 00-0720 Sub-Distribution Panels (Spider Box) For Generator Sets <small>(01 22 23 00-0626)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0721 DAY Sub-Distribution Panel (Spider Box)	55.44	
01 22 23 00-0722 WK Sub-Distribution Panel (Spider Box)	143.72	
01 22 23 00-0723 MO Sub-Distribution Panel (Spider Box)	405.51	
01 22 23 00-0724 Portable Distribution Panels For Generator Sets <small>(01 22 23 00-0626)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0725 DAY 200 Amp Portable Spider Box Feeder Panel	123.19	
01 22 23 00-0726 WK 200 Amp Portable Spider Box Feeder Panel	333.64	
01 22 23 00-0727 MO 200 Amp Portable Spider Box Feeder Panel	934.21	
01 22 23 00-0728 DAY 100 Amp Portable Quad Box Panel	100.61	
01 22 23 00-0729 WK 100 Amp Portable Quad Box Panel	261.78	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0730 MO 100 Amp Portable Quad Box Panel	744.28	
01 22 23 00-0731 DAY 200 Amp Portable Quad Box Panel	128.32	
01 22 23 00-0732 WK 200 Amp Portable Quad Box Panel	323.38	
01 22 23 00-0733 MO 200 Amp Portable Quad Box Panel	877.74	
01 22 23 00-0734 Fuel Reimbursement For Generators (01 22 23 00-0626)		
01 22 23 00-0735 EA Fuel Reimbursement For Generators	1.00	
Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
01 22 23 00-0736 Generator Accessories (01 22 23 00-0626)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0737 Step Down Transformer (01 22 23 00-0736)		
01 22 23 00-0738 WK 75 KVA, 480-208 Volt, Step Down Transformer	302.85	
01 22 23 00-0739 MO 75 KVA, 480-208 Volt, Step Down Transformer	846.94	
01 22 23 00-0740 WK 150 KVA, 480-208 Volt, Step Down Transformer	485.58	
01 22 23 00-0741 MO 150 KVA, 480-208 Volt, Step Down Transformer	1,455.72	
01 22 23 00-0742 WK 225 KVA, 480-208 Volt, Step Down Transformer	646.76	
01 22 23 00-0743 MO 225 KVA, 480-208 Volt, Step Down Transformer	1,940.27	
01 22 23 00-0744 WK 500 KVA, 480-208 Volt, Step Down Transformer	769.95	
01 22 23 00-0745 MO 500 KVA, 480-208 Volt, Step Down Transformer	2,309.85	
01 22 23 00-0746 WK 1,000 KVA, 4,160/480 Volt, Step Down Transformer	1,149.79	
01 22 23 00-0747 MO 1,000 KVA, 4,160/480 Volt, Step Down Transformer	3,433.98	
01 22 23 00-0748 WK 1,500 KVA, 4,160/480 Volt, Step Down Transformer	1,868.41	
01 22 23 00-0749 MO 1,500 KVA, 4,160/480 Volt, Step Down Transformer	5,600.10	
01 22 23 00-0750 WK 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer	2,155.86	
01 22 23 00-0751 MO 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer	6,467.58	
01 22 23 00-0752 Portable Panel (01 22 23 00-0736)		
01 22 23 00-0753 WK 100 Amp Portable Panel	241.25	
01 22 23 00-0754 MO 100 Amp Portable Panel	615.96	
01 22 23 00-0755 WK 200 Amp Portable Panel	288.47	
01 22 23 00-0756 MO 200 Amp Portable Panel	769.95	
01 22 23 00-0757 WK 400 Amp Portable Panel	307.98	
01 22 23 00-0758 MO 400 Amp Portable Panel	923.94	
01 22 23 00-0759 Portable Fusible Disconnect (01 22 23 00-0736)		
01 22 23 00-0760 WK 100 - 200 Amp Portable Fusible Disconnect	107.79	
01 22 23 00-0761 MO 100 - 200 Amp Portable Fusible Disconnect	323.38	
01 22 23 00-0762 WK 300 - 400 Amp Portable Fusible Disconnect	215.59	
01 22 23 00-0763 MO 300 - 400 Amp Portable Fusible Disconnect	646.76	
01 22 23 00-0764 Portable Transfer Switch (01 22 23 00-0736)		
01 22 23 00-0765 WK 100 Amp, 480 Volt, Portable Transfer Switch	323.38	
01 22 23 00-0766 MO 100 Amp, 480 Volt, Portable Transfer Switch	970.14	
01 22 23 00-0767 WK 200 Amp, 480 Volt, Portable Transfer Switch	431.17	
01 22 23 00-0768 MO 200 Amp, 480 Volt, Portable Transfer Switch	1,293.52	
01 22 23 00-0769 WK 400 Amp, 480 Volt, Portable Transfer Switch	538.96	
01 22 23 00-0770 MO 400 Amp, 480 Volt, Portable Transfer Switch	1,616.90	
01 22 23 00-0771 Welding Machines (01 22 23 00-0611)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0772 Diesel Powered Towable Welding Machines (01 22 23 00-0771)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0773 DAY 250 To 299 AMP, Diesel Powered Towable Welding Machine	120.24	
01 22 23 00-0774 WK 250 To 299 AMP, Diesel Powered Towable Welding Machine	293.92	
01 22 23 00-0775 MO 250 To 299 AMP, Diesel Powered Towable Welding Machine	701.40	
01 22 23 00-0776 DAY 300 To 349 AMP, Diesel Powered Towable Welding Machine	160.32	
01 22 23 00-0777 WK 300 To 349 AMP, Diesel Powered Towable Welding Machine	313.96	
01 22 23 00-0778 MO 300 To 349 AMP, Diesel Powered Towable Welding Machine	733.46	
01 22 23 00-0779 DAY 350 To 399 AMP, Diesel Powered Towable Welding Machine	167.00	
01 22 23 00-0780 WK 350 To 399 AMP, Diesel Powered Towable Welding Machine	334.00	
01 22 23 00-0781 MO 350 To 399 AMP, Diesel Powered Towable Welding Machine	814.96	
01 22 23 00-0782 General Equipment (01 22 23)		
01 22 23 00-0783 Jacks And Bracing (01 22 23 00-0782)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0784 Manual Hydraulic Jacks (01 22 23 00-0783)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0785 DAY 12 Ton Manual Hydraulic Bottle Jack	1.68	
01 22 23 00-0786 WK 12 Ton Manual Hydraulic Bottle Jack	7.98	
01 22 23 00-0787 MO 12 Ton Manual Hydraulic Bottle Jack	28.68	
01 22 23 00-0788 DAY 20 Ton Manual Hydraulic Bottle Jack	2.94	
01 22 23 00-0789 WK 20 Ton Manual Hydraulic Bottle Jack	9.24	
01 22 23 00-0790 MO 20 Ton Manual Hydraulic Bottle Jack	34.98	
01 22 23 00-0791 DAY 50 Ton Manual Hydraulic Bottle Jack	10.50	
01 22 23 00-0792 WK 50 Ton Manual Hydraulic Bottle Jack	40.75	
01 22 23 00-0793 MO 50 Ton Manual Hydraulic Bottle Jack	146.59	
01 22 23 00-0794 DAY 100 Ton Manual Hydraulic Bottle Jack	14.70	
01 22 23 00-0795 WK 100 Ton Manual Hydraulic Bottle Jack	58.80	
01 22 23 00-0796 MO 100 Ton Manual Hydraulic Bottle Jack	211.81	
01 22 23 00-0797 Manual Screw Jacks (01 22 23 00-0783)		
01 22 23 00-0798 DAY 10 To 20 Ton Manual Screw Jack	15.12	
01 22 23 00-0799 WK 10 To 20 Ton Manual Screw Jack	40.70	
01 22 23 00-0800 MO 10 To 20 Ton Manual Screw Jack	112.81	
01 22 23 00-0801 Pressure Washers (01 22 23 00-0782)		
Note: Includes full-time operator, delivery, set-up, and removal.		
01 22 23 00-0802 DAY 2,000 PSI Pressure Washer With Full-Time Operator	669.04	
For Equipment Without Operator, Deduct	-558.49	
01 22 23 00-0803 WK 2,000 PSI Pressure Washer With Full-Time Operator	3,073.08	
For Equipment Without Operator, Deduct	-2,792.46	
01 22 23 00-0804 MO 2,000 PSI Pressure Washer With Full-Time Operator	12,750.74	
For Equipment Without Operator, Deduct	-12,036.45	
01 22 23 00-0805 DAY 2,500 PSI Pressure Washer With Full-Time Operator	642.55	
For Equipment Without Operator, Deduct	-558.49	
01 22 23 00-0806 WK 2,500 PSI Pressure Washer With Full-Time Operator	3,005.84	
For Equipment Without Operator, Deduct	-2,792.46	
01 22 23 00-0807 MO 2,500 PSI Pressure Washer With Full-Time Operator	12,579.59	
For Equipment Without Operator, Deduct	-12,036.45	
01 22 23 00-0808 DAY 3,000 PSI Pressure Washer With Full-Time Operator	669.04	
For Equipment Without Operator, Deduct	-558.49	
01 22 23 00-0809 WK 3,000 PSI Pressure Washer With Full-Time Operator	3,073.08	
For Equipment Without Operator, Deduct	-2,792.46	
01 22 23 00-0810 MO 3,000 PSI Pressure Washer With Full-Time Operator	12,750.74	
For Equipment Without Operator, Deduct	-12,036.45	
01 22 23 00-0811 DAY 3,500 PSI Pressure Washer With Full-Time Operator	649.01	
For Equipment Without Operator, Deduct	-558.49	
01 22 23 00-0812 WK 3,500 PSI Pressure Washer With Full-Time Operator	3,025.24	
For Equipment Without Operator, Deduct	-2,792.46	
01 22 23 00-0813 MO 3,500 PSI Pressure Washer With Full-Time Operator	12,631.32	
For Equipment Without Operator, Deduct	-12,036.45	
01 22 23 00-0814 DAY 4,000 PSI Pressure Washer With Full-Time Operator	711.55	
For Equipment Without Operator, Deduct	-558.49	
01 22 23 00-0815 WK 4,000 PSI Pressure Washer With Full-Time Operator	3,209.13	
For Equipment Without Operator, Deduct	-2,792.46	
01 22 23 00-0816 MO 4,000 PSI Pressure Washer With Full-Time Operator	13,201.43	
For Equipment Without Operator, Deduct	-12,036.45	
01 22 23 00-0817 DAY 5,000 PSI Pressure Washer With Full-Time Operator	687.81	
For Equipment Without Operator, Deduct	-558.49	
01 22 23 00-0818 WK 5,000 PSI Pressure Washer With Full-Time Operator	3,141.62	
For Equipment Without Operator, Deduct	-2,792.46	
01 22 23 00-0819 MO 5,000 PSI Pressure Washer With Full-Time Operator	13,019.28	
For Equipment Without Operator, Deduct	-12,036.45	
01 22 23 00-0820 Confined Space Entry Equipment (01 22 23 00-0782)		
Note: Includes delivery, set-up, and removal.		
01 22 23 00-0821 DAY Ventilation Equipment For Confined Space	45.24	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0822 WK Ventilation Equipment For Confined Space	135.71	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0823 MO Ventilation Equipment For Confined Space	404.99	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0824 DAY Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	35.37	
01 22 23 00-0825 WK Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	106.11	
01 22 23 00-0826 MO Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	318.34	
01 22 23 00-0827 DAY Confined Space Air Monitor Personnel	692.85	
Note: Per person day.		
01 22 23 00-0828 Mowers (01 22 23 00-0782)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0829 DAY 21" Walk Behind Lawn Mower	51.73	
01 22 23 00-0830 WK 21" Walk Behind Lawn Mower	148.72	
01 22 23 00-0831 MO 21" Walk Behind Lawn Mower	303.90	
01 22 23 00-0832 DAY 32" Walk Behind Lawn Mower	64.66	
01 22 23 00-0833 WK 32" Walk Behind Lawn Mower	155.18	
01 22 23 00-0834 MO 32" Walk Behind Lawn Mower	323.30	

01	General Requirements
01 20	Price And Payment Procedures
01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0835 DAY 36" To 48" Walk Behind Deck Mower	116.39	
01 22 23 00-0836 WK 36" To 48" Walk Behind Deck Mower	323.30	
01 22 23 00-0837 MO 36" To 48" Walk Behind Deck Mower	937.57	
01 22 23 00-0838 DAY 61" To 72" Walk Behind Deck Mower	116.39	
01 22 23 00-0839 WK 61" To 72" Walk Behind Deck Mower	323.30	
01 22 23 00-0840 MO 61" To 72" Walk Behind Deck Mower	937.57	
01 22 23 00-0841 Material Handling Equipment <small>(01 22 23)</small>		
01 22 23 00-0842 Truck Mounted Hydraulic Cranes <small>(01 22 23 00-0841)</small>		
Note: Includes full-time operator. Include delivery, set-up, rigging, and removal time in rental period. Excludes lattice boom extension.		
01 22 23 00-0843 DAY 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,105.53	
For Equipment Without Operator, Deduct	-736.60	
01 22 23 00-0844 WK 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	4,800.63	
For Equipment Without Operator, Deduct	-3,682.98	
01 22 23 00-0845 MO 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	19,238.72	
For Equipment Without Operator, Deduct	-15,874.91	
01 22 23 00-0846 DAY 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,203.19	
For Equipment Without Operator, Deduct	-736.60	
01 22 23 00-0847 WK 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	5,090.90	
For Equipment Without Operator, Deduct	-3,682.98	
01 22 23 00-0848 MO 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	20,106.80	
For Equipment Without Operator, Deduct	-15,874.91	
01 22 23 00-0849 DAY 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,300.85	
For Equipment Without Operator, Deduct	-736.60	
01 22 23 00-0850 WK 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	5,381.16	
For Equipment Without Operator, Deduct	-3,682.98	
01 22 23 00-0851 MO 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	20,974.88	
For Equipment Without Operator, Deduct	-15,874.91	
01 22 23 00-0852 DAY 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,431.06	
For Equipment Without Operator, Deduct	-736.60	
01 22 23 00-0853 WK 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	5,771.80	
For Equipment Without Operator, Deduct	-3,682.98	
01 22 23 00-0854 MO 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	22,141.36	
For Equipment Without Operator, Deduct	-15,874.91	
01 22 23 00-0855 DAY 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,550.42	
For Equipment Without Operator, Deduct	-736.60	
01 22 23 00-0856 WK 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	6,580.20	
For Equipment Without Operator, Deduct	-3,682.98	
01 22 23 00-0857 MO 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	24,564.39	
For Equipment Without Operator, Deduct	-15,874.91	
01 22 23 00-0858 DAY 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,832.55	
For Equipment Without Operator, Deduct	-736.60	
01 22 23 00-0859 WK 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	7,589.34	
For Equipment Without Operator, Deduct	-3,682.98	
01 22 23 00-0860 MO 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	27,593.99	
For Equipment Without Operator, Deduct	-15,874.91	
01 22 23 00-0861 DAY 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,011.59	
For Equipment Without Operator, Deduct	-736.60	
01 22 23 00-0862 WK 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	8,218.70	
For Equipment Without Operator, Deduct	-3,682.98	
01 22 23 00-0863 MO 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	29,486.40	
For Equipment Without Operator, Deduct	-15,874.91	
01 22 23 00-0864 DAY 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,152.66	
For Equipment Without Operator, Deduct	-736.60	
01 22 23 00-0865 WK 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	8,728.70	
For Equipment Without Operator, Deduct	-3,682.98	
01 22 23 00-0866 MO 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	31,014.23	
For Equipment Without Operator, Deduct	-15,874.91	
01 22 23 00-0867 DAY 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,293.72	
For Equipment Without Operator, Deduct	-736.60	
01 22 23 00-0868 WK 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	9,238.69	
For Equipment Without Operator, Deduct	-3,682.98	
01 22 23 00-0869 MO 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	32,542.05	
For Equipment Without Operator, Deduct	-15,874.91	
01 22 23 00-0870 DAY 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,385.95	
For Equipment Without Operator, Deduct	-736.60	
01 22 23 00-0871 WK 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	9,553.37	
For Equipment Without Operator, Deduct	-3,682.98	
01 22 23 00-0872 MO 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	33,496.93	
For Equipment Without Operator, Deduct	-15,874.91	
01 22 23 00-0873 DAY 100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,506.86	
For Equipment Without Operator, Deduct	-732.72	
01 22 23 00-0874 WK 100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	10,000.60	
For Equipment Without Operator, Deduct	-3,663.62	
01 22 23 00-0875 MO 100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	34,802.42	
For Equipment Without Operator, Deduct	-15,791.47	
01 22 23 00-0876 Cable Controlled Lattice Boom, Truck Mounted Mechanical Cranes <small>(01 22 23 00-0841)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0877 DAY 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator .....2,038.72 <i>For Equipment Without Operator, Deduct</i> -736.60	2,038.72	
01 22 23 00-0878 WK 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator 8,327.21 <i>For Equipment Without Operator, Deduct</i> -3,682.98	8,327.21	
01 22 23 00-0879 MO 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator .....29,807.59 <i>For Equipment Without Operator, Deduct</i> -15,874.91	29,807.59	
01 22 23 00-0880 DAY 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....3,042.44 <i>For Equipment Without Operator, Deduct</i> -736.60	3,042.44	
01 22 23 00-0881 WK 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 9,998.26 <i>For Equipment Without Operator, Deduct</i> -3,682.98	9,998.26	
01 22 23 00-0882 MO 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 34,820.76 <i>For Equipment Without Operator, Deduct</i> -15,874.91	34,820.76	
01 22 23 00-0883 DAY 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 3,205.20 <i>For Equipment Without Operator, Deduct</i> -736.60	3,205.20	
01 22 23 00-0884 WK 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 11,186.45 <i>For Equipment Without Operator, Deduct</i> -3,682.98	11,186.45	
01 22 23 00-0885 MO 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 38,384.22 <i>For Equipment Without Operator, Deduct</i> -15,874.91	38,384.22	
01 22 23 00-0886 DAY 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 3,530.73 <i>For Equipment Without Operator, Deduct</i> -736.60	3,530.73	
01 22 23 00-0887 WK 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 12,374.63 <i>For Equipment Without Operator, Deduct</i> -3,682.98	12,374.63	
01 22 23 00-0888 MO 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 41,943.35 <i>For Equipment Without Operator, Deduct</i> -15,874.91	41,943.35	
01 22 23 00-0889 DAY 250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 3,839.99 <i>For Equipment Without Operator, Deduct</i> -736.60	3,839.99	
01 22 23 00-0890 WK 250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 14,751.00 <i>For Equipment Without Operator, Deduct</i> -3,682.98	14,751.00	
01 22 23 00-0891 MO 250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 49,078.97 <i>For Equipment Without Operator, Deduct</i> -15,874.91	49,078.97	
01 22 23 00-0892 DAY 300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 4,349.98 <i>For Equipment Without Operator, Deduct</i> -736.60	4,349.98	
01 22 23 00-0893 WK 300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 16,579.39 <i>For Equipment Without Operator, Deduct</i> -3,682.98	16,579.39	
01 22 23 00-0894 MO 300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 54,556.55 <i>For Equipment Without Operator, Deduct</i> -15,874.91	54,556.55	
01 22 23 00-0895 DAY 500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 7,485.92 <i>For Equipment Without Operator, Deduct</i> -736.60	7,485.92	
01 22 23 00-0896 WK 500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 27,755.92 <i>For Equipment Without Operator, Deduct</i> -3,682.98	27,755.92	
01 22 23 00-0897 MO 500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... 88,099.17 <i>For Equipment Without Operator, Deduct</i> -15,874.91	88,099.17	
01 22 23 00-0898 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts (01 22 23 00-0841) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0899 DAY 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator 1,085.69 <i>For Equipment Without Operator, Deduct</i> -692.85	1,085.69	
01 22 23 00-0900 WK 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator 4,425.69 <i>For Equipment Without Operator, Deduct</i> -3,464.26	4,425.69	
01 22 23 00-0901 MO 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator 16,999.77 <i>For Equipment Without Operator, Deduct</i> -14,932.17	16,999.77	
01 22 23 00-0902 DAY 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator 1,127.05 <i>For Equipment Without Operator, Deduct</i> -692.85	1,127.05	
01 22 23 00-0903 WK 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator 4,518.74 <i>For Equipment Without Operator, Deduct</i> -3,464.26	4,518.74	
01 22 23 00-0904 MO 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator 17,206.53 <i>For Equipment Without Operator, Deduct</i> -14,932.17	17,206.53	
01 22 23 00-0905 DAY 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator 1,116.71 <i>For Equipment Without Operator, Deduct</i> -692.85	1,116.71	
01 22 23 00-0906 WK 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator 4,565.26 <i>For Equipment Without Operator, Deduct</i> -3,464.26	4,565.26	
01 22 23 00-0907 MO 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator 17,516.67 <i>For Equipment Without Operator, Deduct</i> -14,932.17	17,516.67	
01 22 23 00-0908 DAY 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator 1,235.59 <i>For Equipment Without Operator, Deduct</i> -692.85	1,235.59	
01 22 23 00-0909 WK 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator 4,875.40 <i>For Equipment Without Operator, Deduct</i> -3,464.26	4,875.40	
01 22 23 00-0910 MO 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator 18,240.33 <i>For Equipment Without Operator, Deduct</i> -14,932.17	18,240.33	
01 22 23 00-0911 Straight Mast, Rough Terrain Construction Forklifts (01 22 23 00-0841) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0912 DAY 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... 948.20 <i>For Equipment Without Operator, Deduct</i> -692.85 <i>For Propane Instead Of Gas Or Diesel, Add</i> 51.07	948.20	
01 22 23 00-0913 WK 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... 4,161.56 <i>For Equipment Without Operator, Deduct</i> -3,464.26 <i>For Propane Instead Of Gas Or Diesel, Add</i> 139.46	4,161.56	
01 22 23 00-0914 MO 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... 16,528.10 <i>For Equipment Without Operator, Deduct</i> -14,932.17 <i>For Propane Instead Of Gas Or Diesel, Add</i> 319.19	16,528.10	

01	01	General Requirements
	01 20	Price And Payment Procedures
	01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0915 DAY 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	961.64	
For Equipment Without Operator, Deduct	-692.85	
For Propane Instead Of Gas Or Diesel, Add	53.76	
01 22 23 00-0916 WK 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	4,198.26	
For Equipment Without Operator, Deduct	-3,464.26	
For Propane Instead Of Gas Or Diesel, Add	146.80	
01 22 23 00-0917 MO 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	16,612.09	
For Equipment Without Operator, Deduct	-14,932.17	
For Propane Instead Of Gas Or Diesel, Add	335.98	
01 22 23 00-0918 DAY 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,034.00	
For Equipment Without Operator, Deduct	-692.85	
For Propane Instead Of Gas Or Diesel, Add	68.23	
01 22 23 00-0919 WK 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	4,399.85	
For Equipment Without Operator, Deduct	-3,464.26	
For Propane Instead Of Gas Or Diesel, Add	187.12	
01 22 23 00-0920 MO 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	17,077.31	
For Equipment Without Operator, Deduct	-14,932.17	
For Propane Instead Of Gas Or Diesel, Add	429.03	
01 22 23 00-0921 DAY 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,073.86	
For Equipment Without Operator, Deduct	-692.85	
For Propane Instead Of Gas Or Diesel, Add	76.20	
01 22 23 00-0922 WK 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	4,382.58	
For Equipment Without Operator, Deduct	-3,464.26	
For Propane Instead Of Gas Or Diesel, Add	183.66	
01 22 23 00-0923 MO 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	17,218.21	
For Equipment Without Operator, Deduct	-14,932.17	
For Propane Instead Of Gas Or Diesel, Add	457.21	
01 22 23 00-0924 Straight Mast, Industrial Warehouse Forklifts <small>(01 22 23 00-0841)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0925 DAY 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	909.95	
For Equipment Without Operator, Deduct	-692.85	
For Propane Instead Of Gas Or Diesel, Add	43.42	
01 22 23 00-0926 WK 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	3,960.48	
For Equipment Without Operator, Deduct	-3,464.26	
For Propane Instead Of Gas Or Diesel, Add	99.24	
01 22 23 00-0927 MO 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	16,121.04	
For Equipment Without Operator, Deduct	-14,932.17	
For Propane Instead Of Gas Or Diesel, Add	237.77	
01 22 23 00-0928 DAY 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	915.12	
For Equipment Without Operator, Deduct	-692.85	
For Propane Instead Of Gas Or Diesel, Add	44.45	
01 22 23 00-0929 WK 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	3,975.99	
For Equipment Without Operator, Deduct	-3,464.26	
For Propane Instead Of Gas Or Diesel, Add	102.35	
01 22 23 00-0930 MO 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	16,157.22	
For Equipment Without Operator, Deduct	-14,932.17	
For Propane Instead Of Gas Or Diesel, Add	245.01	
01 22 23 00-0931 DAY 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,023.67	
For Equipment Without Operator, Deduct	-692.85	
For Propane Instead Of Gas Or Diesel, Add	66.16	
01 22 23 00-0932 WK 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	4,213.76	
For Equipment Without Operator, Deduct	-3,464.26	
For Propane Instead Of Gas Or Diesel, Add	149.90	
01 22 23 00-0933 MO 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	16,741.32	
For Equipment Without Operator, Deduct	-14,932.17	
For Propane Instead Of Gas Or Diesel, Add	361.83	
01 22 23 00-0934 DAY 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,034.00	
For Equipment Without Operator, Deduct	-692.85	
For Propane Instead Of Gas Or Diesel, Add	68.23	
01 22 23 00-0935 WK 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	4,301.64	
For Equipment Without Operator, Deduct	-3,464.26	
For Propane Instead Of Gas Or Diesel, Add	167.48	
01 22 23 00-0936 MO 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	17,051.46	
For Equipment Without Operator, Deduct	-14,932.17	
For Propane Instead Of Gas Or Diesel, Add	423.86	
01 22 23 00-0937 DAY 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,127.05	
For Equipment Without Operator, Deduct	-692.85	
For Propane Instead Of Gas Or Diesel, Add	86.84	
01 22 23 00-0938 WK 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	4,451.54	
For Equipment Without Operator, Deduct	-3,464.26	
For Propane Instead Of Gas Or Diesel, Add	197.46	
01 22 23 00-0939 MO 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	17,309.91	
For Equipment Without Operator, Deduct	-14,932.17	
For Propane Instead Of Gas Or Diesel, Add	475.55	
01 22 23 00-0940 Chain Hoists <small>(01 22 23 00-0841)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0941 DAY 1 Ton, 20' Lift, Manual Chain Hoist.....	12.60	
01 22 23 00-0942 WK 1 Ton, 20' Lift, Manual Chain Hoist.....	32.76	
01 22 23 00-0943 MO 1 Ton, 20' Lift, Manual Chain Hoist.....	97.02	
01 22 23 00-0944 DAY 3 Ton, 20' Lift, Manual Chain Hoist.....	35.28	
01 22 23 00-0945 WK 3 Ton, 20' Lift, Manual Chain Hoist.....	83.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0946 MO 3 Ton, 20' Lift, Manual Chain Hoist.....	233.10	
01 22 23 00-0947 DAY 5 Ton, 20' Lift, Manual Chain Hoist.....	45.36	
01 22 23 00-0948 WK 5 Ton, 20' Lift, Manual Chain Hoist.....	122.22	
01 22 23 00-0949 MO 5 Ton, 20' Lift, Manual Chain Hoist.....	340.20	
01 22 23 00-0950 DAY 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	89.46	
01 22 23 00-0951 WK 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	233.10	
01 22 23 00-0952 MO 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	630.00	
01 22 23 00-0953 DAY 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	90.72	
01 22 23 00-0954 WK 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	242.55	
01 22 23 00-0955 MO 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	661.50	
01 22 23 00-0956 DAY 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	93.24	
01 22 23 00-0957 WK 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	261.45	
01 22 23 00-0958 MO 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	724.50	
01 22 23 00-0959 Roof Swing Hoist (01 22 23 00-0941)		
01 22 23 00-0960 DAY Up To 400#, Manual Swing Roof Hoist.....	55.30	
01 22 23 00-0961 WK Up To 400#, Manual Swing Roof Hoist.....	193.53	
01 22 23 00-0962 MO Up To 400#, Manual Swing Roof Hoist.....	663.54	
01 22 23 00-0963 Pumping Equipment (01 22 23)		
01 22 23 00-0964 Gas Powered Portable Centrifugal Pumps (01 22 23 00-0963)		
Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-0988 for larger diameter pumps.		
01 22 23 00-0965 DAY 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump.....	59.29	
01 22 23 00-0966 WK 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump.....	133.41	
01 22 23 00-0967 MO 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump.....	355.75	
01 22 23 00-0968 DAY 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump.....	71.15	
01 22 23 00-0969 WK 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump.....	160.09	
01 22 23 00-0970 MO 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump.....	426.90	
01 22 23 00-0971 Gas Powered Portable Diaphragm Pumps (01 22 23 00-0963)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0972 DAY 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	68.19	
01 22 23 00-0973 WK 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	192.70	
01 22 23 00-0974 MO 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	489.16	
01 22 23 00-0975 DAY 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	83.01	
01 22 23 00-0976 WK 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	222.34	
01 22 23 00-0977 MO 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	629.98	
01 22 23 00-0978 Gas Powered Portable Trash Pumps (01 22 23 00-0963)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0979 DAY 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	85.97	
01 22 23 00-0980 WK 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	177.88	
01 22 23 00-0981 MO 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	533.63	
01 22 23 00-0982 DAY 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	85.97	
01 22 23 00-0983 WK 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	229.76	
01 22 23 00-0984 MO 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	629.98	
01 22 23 00-0985 DAY 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	136.37	
01 22 23 00-0986 WK 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	385.40	
01 22 23 00-0987 MO 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	1,119.14	
01 22 23 00-0988 Diesel Powered Portable Trash Pumps (01 22 23 00-0963)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0989 DAY 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump.....	266.81	
01 22 23 00-0990 WK 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump.....	726.33	
01 22 23 00-0991 MO 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump.....	3,164.71	
01 22 23 00-0992 DAY 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	407.63	
01 22 23 00-0993 WK 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	1,067.26	
01 22 23 00-0994 MO 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	2,838.60	
01 22 23 00-0995 DAY 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	554.38	
01 22 23 00-0996 WK 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	1,483.78	
01 22 23 00-0997 MO 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	3,969.60	
01 22 23 00-0998 DAY 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump.....	717.43	
01 22 23 00-0999 WK 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump.....	1,832.12	
01 22 23 00-1000 MO 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump.....	5,380.75	
01 22 23 00-1001 Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-0963)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1002 DAY 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	380.95	
01 22 23 00-1003 WK 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	867.15	
01 22 23 00-1004 MO 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	2,703.72	
01 22 23 00-1005 DAY 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	466.92	
01 22 23 00-1006 WK 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	1,163.61	
01 22 23 00-1007 MO 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	3,164.71	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1008	DAY		246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	563.27	
01 22 23 00-1009	WK		246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,666.11	
01 22 23 00-1010	MO		246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	4,647.01	
01 22 23 00-1011	DAY		510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	847.88	
01 22 23 00-1012	WK		510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,165.64	
01 22 23 00-1013	MO		510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	6,359.07	
01 22 23 00-1014			3 Phase Electric Submersible Pumps (01 22 23 00-0963) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1015	DAY		24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	148.23	
01 22 23 00-1016	WK		24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	370.58	
01 22 23 00-1017	MO		24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	1,111.72	
01 22 23 00-1018	DAY		49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	195.66	
01 22 23 00-1019	WK		49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	489.16	
01 22 23 00-1020	MO		49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	1,467.48	
01 22 23 00-1021			Suction Hose With Couplings (01 22 23 00-0963) Note: Includes delivery, set-up, and removal.		
01 22 23 00-1022	DAY		Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	4.46	
01 22 23 00-1023	WK		Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	11.16	
01 22 23 00-1024	MO		Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	34.22	
01 22 23 00-1025	DAY		3" Inside Diameter, 20' Length, Suction Hose With Couplings	11.90	
01 22 23 00-1026	WK		3" Inside Diameter, 20' Length, Suction Hose With Couplings	30.50	
01 22 23 00-1027	MO		3" Inside Diameter, 20' Length, Suction Hose With Couplings	93.00	
01 22 23 00-1028	DAY		4" Inside Diameter, 20' Length, Suction Hose With Couplings	17.86	
01 22 23 00-1029	WK		4" Inside Diameter, 20' Length, Suction Hose With Couplings	45.38	
01 22 23 00-1030	MO		4" Inside Diameter, 20' Length, Suction Hose With Couplings	137.64	
01 22 23 00-1031	DAY		6" Inside Diameter, 20' Length, Suction Hose With Couplings	22.32	
01 22 23 00-1032	WK		6" Inside Diameter, 20' Length, Suction Hose With Couplings	55.80	
01 22 23 00-1033	MO		6" Inside Diameter, 20' Length, Suction Hose With Couplings	163.68	
01 22 23 00-1034	DAY		10" Inside Diameter, 20' Length, Suction Hose With Couplings	52.08	
01 22 23 00-1035	WK		10" Inside Diameter, 20' Length, Suction Hose With Couplings	133.92	
01 22 23 00-1036	MO		10" Inside Diameter, 20' Length, Suction Hose With Couplings	394.32	
01 22 23 00-1037	DAY		12" Inside Diameter, 20' Length, Suction Hose With Couplings	69.94	
01 22 23 00-1038	WK		12" Inside Diameter, 20' Length, Suction Hose With Couplings	152.52	
01 22 23 00-1039	MO		12" Inside Diameter, 20' Length, Suction Hose With Couplings	457.56	
01 22 23 00-1040			Discharge Hose With Couplings (01 22 23 00-0963) Note: Includes delivery, set-up, and removal.		
01 22 23 00-1041	DAY		1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	4.46	
01 22 23 00-1042	WK		1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	11.16	
01 22 23 00-1043	MO		1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	34.22	
01 22 23 00-1044	DAY		2" Inside Diameter, 50' Length, Discharge Hose With Couplings	5.21	
01 22 23 00-1045	WK		2" Inside Diameter, 50' Length, Discharge Hose With Couplings	12.65	
01 22 23 00-1046	MO		2" Inside Diameter, 50' Length, Discharge Hose With Couplings	39.43	
01 22 23 00-1047	DAY		3" Inside Diameter, 50' Length, Discharge Hose With Couplings	5.95	
01 22 23 00-1048	WK		3" Inside Diameter, 50' Length, Discharge Hose With Couplings	14.88	
01 22 23 00-1049	MO		3" Inside Diameter, 50' Length, Discharge Hose With Couplings	45.38	
01 22 23 00-1050	DAY		4" Inside Diameter, 50' Length, Discharge Hose With Couplings	15.62	
01 22 23 00-1051	WK		4" Inside Diameter, 50' Length, Discharge Hose With Couplings	40.18	
01 22 23 00-1052	MO		4" Inside Diameter, 50' Length, Discharge Hose With Couplings	115.32	
01 22 23 00-1053	DAY		6" Inside Diameter, 50' Length, Discharge Hose With Couplings	19.34	
01 22 23 00-1054	WK		6" Inside Diameter, 50' Length, Discharge Hose With Couplings	52.82	
01 22 23 00-1055	MO		6" Inside Diameter, 50' Length, Discharge Hose With Couplings	145.08	
01 22 23 00-1056	DAY		10" Inside Diameter, 10' Length, Discharge Hose With Couplings	14.88	
01 22 23 00-1057	WK		10" Inside Diameter, 10' Length, Discharge Hose With Couplings	37.20	
01 22 23 00-1058	MO		10" Inside Diameter, 10' Length, Discharge Hose With Couplings	111.60	
01 22 23 00-1059	DAY		12" Inside Diameter, 10' Length, Discharge Hose With Couplings	37.94	
01 22 23 00-1060	WK		12" Inside Diameter, 10' Length, Discharge Hose With Couplings	96.72	
01 22 23 00-1061	MO		12" Inside Diameter, 10' Length, Discharge Hose With Couplings	286.44	
01 22 23 00-1062			Hydraulic Submersible Pumps (01 22 23 00-0963)		
01 22 23 00-1063			Hydraulic Submersible Pumps (01 22 23 00-1062) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1064	DAY		60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	97.83	
01 22 23 00-1065	WK		60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	262.37	
01 22 23 00-1066	MO		60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	733.74	
01 22 23 00-1067	DAY		132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	124.51	
01 22 23 00-1068	WK		132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	320.18	
01 22 23 00-1069	MO		132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	978.32	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-1070 Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-1062)

Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1071	DAY	100 HP, Hydraulic Submersible Pump Diesel Power Pack	226.05	
01 22 23 00-1072	WK	100 HP, Hydraulic Submersible Pump Diesel Power Pack	674.45	
01 22 23 00-1073	MO	100 HP, Hydraulic Submersible Pump Diesel Power Pack	1,778.76	

01 22 23 00-1074 HDPE Pipe With Couplings (01 22 23 00-0963)

Note: Includes delivery, set-up, and removal.

01 22 23 00-1075	DAY	4" x 20' HDPE Pipe With Couplings	6.25	
01 22 23 00-1076	WK	4" x 20' HDPE Pipe With Couplings	15.00	
01 22 23 00-1077	MON	4" x 20' HDPE Pipe With Couplings	46.25	
01 22 23 00-1078	DAY	6" x 20' HDPE Pipe With Couplings	10.00	
01 22 23 00-1079	WK	6" x 20' HDPE Pipe With Couplings	25.00	
01 22 23 00-1080	MON	6" x 20' HDPE Pipe With Couplings	76.25	
01 22 23 00-1081	DAY	8" x 20' HDPE Pipe With Couplings	16.25	
01 22 23 00-1082	WK	8" x 20' HDPE Pipe With Couplings	42.50	
01 22 23 00-1083	MON	8" x 20' HDPE Pipe With Couplings	126.25	
01 22 23 00-1084	DAY	10" x 20' HDPE Pipe With Couplings	20.00	
01 22 23 00-1085	WK	10" x 20' HDPE Pipe With Couplings	51.25	
01 22 23 00-1086	MON	10" x 20' HDPE Pipe With Couplings	156.25	
01 22 23 00-1087	DAY	12" x 10' HDPE Pipe With Couplings	15.00	
01 22 23 00-1088	WK	12" x 10' HDPE Pipe With Couplings	41.25	
01 22 23 00-1089	MON	12" x 10' HDPE Pipe With Couplings	125.00	
01 22 23 00-1090	DAY	4" Elbow For HDPE Pipe, Quick Connect	15.00	
01 22 23 00-1091	WK	4" Elbow For HDPE Pipe, Quick Connect	38.75	
01 22 23 00-1092	MON	4" Elbow For HDPE Pipe, Quick Connect	115.00	
01 22 23 00-1093	DAY	6" Elbow For HDPE Pipe, Quick Connect	17.50	
01 22 23 00-1094	WK	6" Elbow For HDPE Pipe, Quick Connect	45.00	
01 22 23 00-1095	MON	6" Elbow For HDPE Pipe, Quick Connect	137.50	
01 22 23 00-1096	DAY	8" Elbow For HDPE Pipe, Quick Connect	20.00	
01 22 23 00-1097	WK	8" Elbow For HDPE Pipe, Quick Connect	51.25	
01 22 23 00-1098	MON	8" Elbow For HDPE Pipe, Quick Connect	156.25	
01 22 23 00-1099	DAY	10" Elbow For HDPE Pipe, Quick Connect	25.00	
01 22 23 00-1100	WK	10" Elbow For HDPE Pipe, Quick Connect	63.75	
01 22 23 00-1101	MON	10" Elbow For HDPE Pipe, Quick Connect	193.75	
01 22 23 00-1102	DAY	12" Elbow For HDPE Pipe, Quick Connect	25.00	
01 22 23 00-1103	WK	12" Elbow For HDPE Pipe, Quick Connect	63.75	
01 22 23 00-1104	MON	12" Elbow For HDPE Pipe, Quick Connect	193.75	
01 22 23 00-1105	DAY	4" Tee For HDPE Pipe, Quick Connect	15.00	
01 22 23 00-1106	WK	4" Tee For HDPE Pipe, Quick Connect	38.75	
01 22 23 00-1107	MON	4" Tee For HDPE Pipe, Quick Connect	115.00	
01 22 23 00-1108	DAY	6" Tee For HDPE Pipe, Quick Connect	20.00	
01 22 23 00-1109	WK	6" Tee For HDPE Pipe, Quick Connect	51.25	
01 22 23 00-1110	MON	6" Tee For HDPE Pipe, Quick Connect	156.25	
01 22 23 00-1111	DAY	8" Tee For HDPE Pipe, Quick Connect	25.00	
01 22 23 00-1112	WK	8" Tee For HDPE Pipe, Quick Connect	63.75	
01 22 23 00-1113	MON	8" Tee For HDPE Pipe, Quick Connect	193.75	
01 22 23 00-1114	DAY	10" Tee For HDPE Pipe, Quick Connect	30.00	
01 22 23 00-1115	WK	10" Tee For HDPE Pipe, Quick Connect	76.25	
01 22 23 00-1116	MON	10" Tee For HDPE Pipe, Quick Connect	231.25	
01 22 23 00-1117	DAY	12" Tee For HDPE Pipe, Quick Connect	30.00	
01 22 23 00-1118	WK	12" Tee For HDPE Pipe, Quick Connect	76.25	
01 22 23 00-1119	MON	12" Tee For HDPE Pipe, Quick Connect	231.25	
01 22 23 00-1120	DAY	4" Cap For HDPE Pipe, Quick Connect	2.50	
01 22 23 00-1121	WK	4" Cap For HDPE Pipe, Quick Connect	7.50	
01 22 23 00-1122	MON	4" Cap For HDPE Pipe, Quick Connect	22.50	
01 22 23 00-1123	DAY	6" Cap For HDPE Pipe, Quick Connect	2.50	
01 22 23 00-1124	WK	6" Cap For HDPE Pipe, Quick Connect	7.50	
01 22 23 00-1125	MON	6" Cap For HDPE Pipe, Quick Connect	22.50	
01 22 23 00-1126	DAY	8" Cap For HDPE Pipe, Quick Connect	2.50	
01 22 23 00-1127	WK	8" Cap For HDPE Pipe, Quick Connect	7.50	
01 22 23 00-1128	MON	8" Cap For HDPE Pipe, Quick Connect	22.50	
01 22 23 00-1129	DAY	10" Cap For HDPE Pipe, Quick Connect	2.50	
01 22 23 00-1130	WK	10" Cap For HDPE Pipe, Quick Connect	7.50	
01 22 23 00-1131	MON	10" Cap For HDPE Pipe, Quick Connect	22.50	
01 22 23 00-1132	DAY	12" Cap For HDPE Pipe, Quick Connect	2.50	
01 22 23 00-1133	WK	12" Cap For HDPE Pipe, Quick Connect	7.50	
01 22 23 00-1134	MON	12" Cap For HDPE Pipe, Quick Connect	22.50	
01 22 23 00-1135	DAY	4" Wye For HDPE Pipe, Quick Connect	7.50	
01 22 23 00-1136	WK	4" Wye For HDPE Pipe, Quick Connect	18.75	
01 22 23 00-1137	MON	4" Wye For HDPE Pipe, Quick Connect	57.50	
01 22 23 00-1138	DAY	6" Wye For HDPE Pipe, Quick Connect	8.75	
01 22 23 00-1139	WK	6" Wye For HDPE Pipe, Quick Connect	22.50	
01 22 23 00-1140	MON	6" Wye For HDPE Pipe, Quick Connect	68.75	
01 22 23 00-1141	DAY	8" Wye For HDPE Pipe, Quick Connect	15.00	
01 22 23 00-1142	WK	8" Wye For HDPE Pipe, Quick Connect	38.75	
01 22 23 00-1143	MON	8" Wye For HDPE Pipe, Quick Connect	115.00	
01 22 23 00-1144	DAY	10" Wye For HDPE Pipe, Quick Connect	22.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1145 WK 10" Wye For HDPE Pipe, Quick Connect.....	57.50	
01 22 23 00-1146 MON 10" Wye For HDPE Pipe, Quick Connect.....	175.00	
01 22 23 00-1147 DAY 12" Wye For HDPE Pipe, Quick Connect.....	22.50	
01 22 23 00-1148 WK 12" Wye For HDPE Pipe, Quick Connect.....	57.50	
01 22 23 00-1149 MON 12" Wye For HDPE Pipe, Quick Connect.....	175.00	
01 22 23 00-1150 Truck And Trailer Equipment (01 22 23)		
01 22 23 00-1151 Trucks (01 22 23 00-1150)		
Note: Includes driver, delivery, and removal.		
01 22 23 00-1152 Flat Bed Trucks (01 22 23 00-1151)		
Note: Includes hydraulic tilt bed.		
01 22 23 00-1153 DAY 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	847.59	
For Equipment Without Operator, Deduct	-597.12	
01 22 23 00-1154 WK 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	3,642.22	
For Equipment Without Operator, Deduct	-2,985.58	
01 22 23 00-1155 MO 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	14,527.39	
For Equipment Without Operator, Deduct	-12,868.86	
01 22 23 00-1156 DAY 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	955.90	
For Equipment Without Operator, Deduct	-597.12	
01 22 23 00-1157 WK 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	3,919.77	
For Equipment Without Operator, Deduct	-2,985.58	
01 22 23 00-1158 MO 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	15,238.18	
For Equipment Without Operator, Deduct	-12,868.86	
01 22 23 00-1159 DAY 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	1,033.62	
For Equipment Without Operator, Deduct	-597.12	
01 22 23 00-1160 WK 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	4,216.82	
For Equipment Without Operator, Deduct	-2,985.58	
01 22 23 00-1161 MO 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	16,368.71	
For Equipment Without Operator, Deduct	-12,868.88	
01 22 23 00-1162 Light Off-Road Utility Passanger Vehicles (01 22 23 00-1151)		
01 22 23 00-1163 DAY 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....	166.06	
01 22 23 00-1164 WK 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....	384.02	
01 22 23 00-1165 MO 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....	830.32	
01 22 23 00-1166 DAY 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....	171.25	
01 22 23 00-1167 WK 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....	399.59	
01 22 23 00-1168 MO 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....	882.22	
01 22 23 00-1169 Light Duty Trucks (01 22 23 00-1151)		
01 22 23 00-1170 DAY 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....	855.57	
For Equipment Without Operator, Deduct	-597.12	
01 22 23 00-1171 WK 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....	3,833.61	
For Equipment Without Operator, Deduct	-2,985.58	
01 22 23 00-1172 MO 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....	14,645.69	
For Equipment Without Operator, Deduct	-12,868.86	
01 22 23 00-1173 DAY 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver	904.03	
For Equipment Without Operator, Deduct	-597.12	
01 22 23 00-1174 WK 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver	3,978.99	
For Equipment Without Operator, Deduct	-2,985.58	
01 22 23 00-1175 MO 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....	14,968.75	
For Equipment Without Operator, Deduct	-12,868.86	
01 22 23 00-1176 Boom Trucks (01 22 23 00-1151)		
01 22 23 00-1177 DAY 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver	1,063.54	
For Equipment Without Operator, Deduct	-597.12	
01 22 23 00-1178 WK 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver	4,200.03	
For Equipment Without Operator, Deduct	-2,985.58	
01 22 23 00-1179 MO 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver	15,948.98	
For Equipment Without Operator, Deduct	-12,868.86	
01 22 23 00-1180 Rear Dump Trucks (01 22 23 00-1151)		
01 22 23 00-1181 DAY 2.5 CY Rear Dump Truck With Full-Time Truck Driver	891.99	
For Equipment Without Operator, Deduct	-590.54	
01 22 23 00-1182 WK 2.5 CY Rear Dump Truck With Full-Time Truck Driver	3,748.89	
For Equipment Without Operator, Deduct	-2,952.68	
01 22 23 00-1183 MO 2.5 CY Rear Dump Truck With Full-Time Truck Driver	15,164.84	
For Equipment Without Operator, Deduct	-12,727.05	
01 22 23 00-1184 DAY 4 CY Rear Dump Truck With Full-Time Truck Driver	998.50	
For Equipment Without Operator, Deduct	-597.12	
01 22 23 00-1185 WK 4 CY Rear Dump Truck With Full-Time Truck Driver	4,091.43	
For Equipment Without Operator, Deduct	-2,985.58	
01 22 23 00-1186 MO 4 CY Rear Dump Truck With Full-Time Truck Driver	15,735.88	
For Equipment Without Operator, Deduct	-12,868.86	
01 22 23 00-1187 DAY 6 CY Rear Dump Truck With Full-Time Truck Driver	1,055.84	
For Equipment Without Operator, Deduct	-597.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1188 WK 6 CY Rear Dump Truck With Full-Time Truck Driver	4,214.30	
<i>For Equipment Without Operator, Deduct</i>	-2,985.58	
01 22 23 00-1189 MO 6 CY Rear Dump Truck With Full-Time Truck Driver	15,817.80	
<i>For Equipment Without Operator, Deduct</i>	-12,868.86	
01 22 23 00-1190 DAY 13 CY Rear Dump Truck With Full-Time Truck Driver	1,735.74	
<i>For Equipment Without Operator, Deduct</i>	-597.12	
01 22 23 00-1191 WK 13 CY Rear Dump Truck With Full-Time Truck Driver	5,615.05	
<i>For Equipment Without Operator, Deduct</i>	-2,985.58	
01 22 23 00-1192 MO 13 CY Rear Dump Truck With Full-Time Truck Driver	19,749.72	
<i>For Equipment Without Operator, Deduct</i>	-12,868.86	
01 22 23 00-1193 DAY 18 CY Rear Dump Truck With Full-Time Truck Driver	1,849.60	
<i>For Equipment Without Operator, Deduct</i>	-597.12	
01 22 23 00-1194 WK 18 CY Rear Dump Truck With Full-Time Truck Driver	5,878.00	
<i>For Equipment Without Operator, Deduct</i>	-2,985.58	
01 22 23 00-1195 MO 18 CY Rear Dump Truck With Full-Time Truck Driver	20,437.81	
<i>For Equipment Without Operator, Deduct</i>	-12,868.86	
01 22 23 00-1196 Under-Bridge Inspection Trucks <small>(01 22 23 00-1151)</small>		
01 22 23 00-1197 DAY 40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	2,710.19	
<i>For Equipment Without Operator, Deduct</i>	-597.12	
01 22 23 00-1198 WK 40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	12,408.73	
<i>For Equipment Without Operator, Deduct</i>	-2,985.58	
01 22 23 00-1199 MO 40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	46,288.14	
<i>For Equipment Without Operator, Deduct</i>	-12,868.86	
01 22 23 00-1200 DAY 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	2,995.74	
<i>For Equipment Without Operator, Deduct</i>	-597.12	
01 22 23 00-1201 WK 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	12,979.83	
<i>For Equipment Without Operator, Deduct</i>	-2,985.58	
01 22 23 00-1202 MO 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	48,444.22	
<i>For Equipment Without Operator, Deduct</i>	-12,868.86	
01 22 23 00-1203 DAY 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	3,167.07	
<i>For Equipment Without Operator, Deduct</i>	-597.12	
01 22 23 00-1204 WK 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	13,836.48	
<i>For Equipment Without Operator, Deduct</i>	-2,985.58	
01 22 23 00-1205 MO 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	50,600.31	
<i>For Equipment Without Operator, Deduct</i>	-12,868.86	
01 22 23 00-1206 DAY 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	3,909.50	
<i>For Equipment Without Operator, Deduct</i>	-597.12	
01 22 23 00-1207 WK 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	17,263.08	
<i>For Equipment Without Operator, Deduct</i>	-2,985.58	
01 22 23 00-1208 MO 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	61,380.72	
<i>For Equipment Without Operator, Deduct</i>	-12,868.86	
01 22 23 00-1209 Vacuum Trucks <small>(01 22 23 00-1151)</small>		
01 22 23 00-1210 DAY 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver	877.62	
<i>For Equipment Without Operator, Deduct</i>	-597.12	
01 22 23 00-1211 WK 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver	3,821.58	
<i>For Equipment Without Operator, Deduct</i>	-2,985.58	
01 22 23 00-1212 MO 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver	15,338.36	
<i>For Equipment Without Operator, Deduct</i>	-12,868.86	
01 22 23 00-1213 DAY 5,000 Gallon Vacuum Truck With Full-Time Truck Driver	1,727.55	
<i>For Equipment Without Operator, Deduct</i>	-597.12	
01 22 23 00-1214 WK 5,000 Gallon Vacuum Truck With Full-Time Truck Driver	6,389.97	
<i>For Equipment Without Operator, Deduct</i>	-2,985.58	
01 22 23 00-1215 MO 5,000 Gallon Vacuum Truck With Full-Time Truck Driver	22,914.92	
<i>For Equipment Without Operator, Deduct</i>	-12,868.86	
01 22 23 00-1216 Water Trucks <small>(01 22 23 00-1151)</small>		
See CSI section 01 22 23 00-1239 for water trailer, 31 23 23 23-0001 for compaction water as required for earth/aggregate backfill.		
01 22 23 00-1217 DAY 2,000 Gallon Water Truck With Full-Time Driver	1,092.12	
<i>For Equipment Without Operator, Deduct</i>	-597.12	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.00	
01 22 23 00-1218 WK 2,000 Gallon Water Truck With Full-Time Driver	4,289.08	
<i>For Equipment Without Operator, Deduct</i>	-2,985.58	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.00	
01 22 23 00-1219 MO 2,000 Gallon Water Truck With Full-Time Driver	15,948.86	
<i>For Equipment Without Operator, Deduct</i>	-12,868.86	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.00	
01 22 23 00-1220 DAY 2,500 To 3,000 Gal Water Truck With Full-Time Operator	1,180.12	
<i>For Equipment Without Operator, Deduct</i>	-597.12	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.00	
01 22 23 00-1221 WK 2,500 To 3,000 Gal Water Truck With Full-Time Operator	4,899.58	
<i>For Equipment Without Operator, Deduct</i>	-2,985.58	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.00	
01 22 23 00-1222 MO 2,500 To 3,000 Gal Water Truck With Full-Time Operator	17,637.36	
<i>For Equipment Without Operator, Deduct</i>	-12,868.86	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.00	
01 22 23 00-1223 DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Driver	1,334.12	
<i>For Equipment Without Operator, Deduct</i>	-597.12	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.00	

01	01	General Requirements
	01 20	Price And Payment Procedures
	01 22	Unit Prices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1224	WK		3,700 To 4,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i>	5,015.08 -2,985.58	
			<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.00	
01 22 23 00-1225	MO		3,700 To 4,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i>	17,818.86 -12,868.86	
			<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	8.00	
01 22 23 00-1226			Asphalt Distribution Trucks <small>(01 22 23 00-1151)</small>		
01 22 23 00-1227	DAY		3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,757.41 -597.12	
01 22 23 00-1228	WK		3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	6,451.56 -2,985.58	
01 22 23 00-1229	MO		3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	23,115.18 -12,868.86	
01 22 23 00-1230			Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board <small>(01 22 23 00-1151)</small>		
01 22 23 00-1231	DAY		Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,251.26 -590.54	
01 22 23 00-1232	WK		Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,902.66 -2,952.68	
01 22 23 00-1233	MO		Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,462.51 -12,727.07	
01 22 23 00-1234			Vacuum Sweeper Trucks For Bridge Decks <small>(01 22 23 00-1151)</small>		
01 22 23 00-1235	DAY		Vacuum Sweeper Truck, With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,727.55 -597.12	
01 22 23 00-1236	WK		Vacuum Sweeper Truck, With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	6,389.97 -2,985.58	
01 22 23 00-1237	MO		Vacuum Sweeper Truck, With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	22,914.92 -12,868.86	
01 22 23 00-1238			Trailers <small>(01 22 23 00-1150)</small> Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1239			Water Trailers With Pump <small>(01 22 23 00-1238)</small>		
01 22 23 00-1240	DAY		500 To 600 Gallon Water Trailer With Pump	126.50	
01 22 23 00-1241	WK		500 To 600 Gallon Water Trailer With Pump	324.50	
01 22 23 00-1242	MO		500 To 600 Gallon Water Trailer With Pump	869.00	
01 40			Quality Requirements <small>(01)</small>		
01 45			Quality Control <small>(01 40)</small>		
01 45 23			Testing And Inspecting Services <small>(01 45)</small> Note: For application to existing materials/site conditions only. Includes acquisition and maintenance of sample (for laboratory tests) to include shipping as required, applicable equipment for field tests, and appropriate test reports.		
01 45 23 00-0001			Soils/Aggregate Testing <small>(01 45 23)</small>		
01 45 23 00-0002			Field Soils Tests <small>(01 45 23 00-0001)</small>		
01 45 23 00-0003	EA		Plasticity Index Soils Test, ASTM D-4318, Field Soils Test	189.29	
01 45 23 00-0004	EA		4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	268.66	
01 45 23 00-0005	EA		6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	305.30	
01 45 23 00-0006	EA		Resistance (R) Value Soils Test, CA 301, Field Soils Test	244.24	
01 45 23 00-0007	EA		Soils Classification Test, ASTM D-2487, Field Soils Test	366.36	
01 45 23 00-0008	SET		Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test	732.44	
01 45 23 00-0009	EA		Moisture Content, Field Soils Test	27.47	
01 45 23 00-0010	EA		UBC Or Swell Test, Field Soils Test	96.22	
01 45 23 00-0011	EA		Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test	183.11	
01 45 23 00-0012	EA		Proctor Compaction 6" Standard Mold, Field Soils Test	228.89	
01 45 23 00-0013	EA		Density And Classification Test, Field Soils Test	73.24	
01 45 23 00-0014	EA		Percolation Test, Field Soils Test	183.11	
01 45 23 00-0015	EA		Infiltration Test, Field Soils Test	366.22	
01 45 23 00-0016			Soil Borings Laboratory Tests <small>(01 45 23 00-0001)</small> See CSI section 02 32 13 00-0000 for soil borings.		
01 45 23 00-0017	EA		Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test	84.06	
01 45 23 00-0018	EA		Shrinkage Limit, Soil Borings Laboratory Test	26.82	
01 45 23 00-0019	EA		Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test	64.66	
01 45 23 00-0020	EA		Consolidation, Soil Borings Laboratory Test	452.62	
01 45 23 00-0021	EA		Swell Test, Soil Borings Laboratory Test	89.41	
01 45 23 00-0022	EA		In Place Density, Soil Borings Laboratory Test	19.40	



General Requirements			01
Quality Requirements			01 40
Quality Control			01 45

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0023	EA		Moisture Content, ASTM D2216, Soil Borings Laboratory Test.....	12.05	
01 45 23 00-0024	EA		Hydrometer Analysis, Soil Borings Laboratory Test.....	155.58	
01 45 23 00-0025	EA		Specific Gravity, ASTM D854, Soil Borings Laboratory Test.....	54.26	
01 45 23 00-0026	EA		Partial Sieve Analysis, Soil Borings Laboratory Test.....	10.73	
01 45 23 00-0027	EA		Laboratory Permeability, Soil Borings Laboratory Test.....	536.48	
01 45 23 00-0028	EA		Sieve Analysis, ASTM D422, Soil Borings Laboratory Test.....	108.52	
01 45 23 00-0029	EA		Sulfate Soundness, Soil Borings Laboratory Test.....	134.12	
01 45 23 00-0030	EA		Los Angeles Abrasion, Soil Borings Laboratory Test.....	312.72	
01 45 23 00-0031	EA		Soil Bearing Ratio, ASTM D1883.....	274.77	
01 45 23 00-0032	EA		Compaction Test Subgrade, Soil Borings Laboratory Test.....	80.47	
01 45 23 00-0033	EA		Compaction Test Base Course, Soil Borings Laboratory Test.....	68.09	
01 45 23 00-0034	EA		In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test.....	264.61	
01 45 23 00-0035	EA		Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test.....	41.13	
01 45 23 00-0036			Aggregate Testing (01 45 23 00-0001)		
01 45 23 00-0037	EA		Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	61.06	
01 45 23 00-0038	EA		Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	109.91	
01 45 23 00-0039	EA		Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	152.65	
01 45 23 00-0040	EA		Sieve Analysis, Pit Run, ASTM C136.....	119.02	
			Note: Includes wash.		
01 45 23 00-0041	EA		Specific Special Gravity, Course, ASTM C127.....	96.99	
			Note: Includes absorption test.		
01 45 23 00-0042	EA		Special Gravity, Fine, ASTM C127.....	86.98	
			Note: Includes absorption test.		
01 45 23 00-0043	EA		Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	129.32	
01 45 23 00-0044	EA		Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	122.12	
01 45 23 00-0045	EA		Aggregate Cleanness Value, ASTM C-128, CA 227.....	122.12	
01 45 23 00-0046	EA		Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217.....	91.59	
01 45 23 00-0047	EA		Fine Aggregate Durability Index, CA 229.....	97.70	
01 45 23 00-0048	EA		Sodium And Magnesium Soundness, ASTM C88.....	256.35	
01 45 23 00-0049	EA		Los Angeles Rattler, ASTM C-131, CA 211.....	195.39	
01 45 23 00-0050	EA		Los Angeles Rattler, ASTM C-535.....	195.39	
01 45 23 00-0051	EA		Unit Weight Of Aggregates, ASTM C29.....	54.95	
01 45 23 00-0052	EA		Organic Impurities In Sand, ASTM C40.....	54.93	
01 45 23 00-0053	EA		Crushed Particle, ASTM California Test Method.....	54.93	
01 45 23 00-0054	EA		Clay Lump And Friable Particles, ASTM C142.....	109.87	
01 45 23 00-0055			Permeability Tests (01 45 23 00-0001)		
01 45 23 00-0056			In-Place Tests (01 45 23 00-0055)		
01 45 23 00-0057	EA		Double Ring Infiltrometer Test, ASTM D3385.....	969.90	
01 45 23 00-0058	EA		Unconfined Compressive Strength (Pocket Penetrometer) Test.....	45.78	
01 45 23 00-0059			Lab Tests (01 45 23 00-0055)		
01 45 23 00-0060	EA		Falling Head Rigid Wall Consolidometer Technique CAE.....	452.62	
01 45 23 00-0061	EA		Falling Head Permeability Test EPA-9100.....	452.62	
01 45 23 00-0062	EA		Constant Head Permeability Test For Granular Soils, ASTM D2432.....	258.64	
01 45 23 00-0063			Concrete/Cement/Asphalt Testing (01 45 23)		
01 45 23 00-0064			Concrete Testing (01 45 23 00-0063)		
01 45 23 00-0065	EA		Prepare 6 x 12 Concrete Cylinder And Deliver To Lab.....	18.82	
01 45 23 00-0066	EA		6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633.....	38.80	
01 45 23 00-0067	EA		Concrete Cores Compression Test, ASTM C-42.....	79.38	
01 45 23 00-0068	EA		6 x 6 x 18 Concrete Flexural Test, ASTM C-78.....	116.01	
01 45 23 00-0069	EA		Unit Weight Of Concrete Cylinder, ASTM C-567.....	42.74	
01 45 23 00-0070	EA		Concrete Mix Design Review.....	232.03	
01 45 23 00-0071	EA		Trial Concrete Batch Prepared In Laboratory.....	549.54	
01 45 23 00-0072	EA		Concrete Shrinkage, ASTM C-157 Modified.....	427.42	
01 45 23 00-0073	EA		6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496.....	65.94	
01 45 23 00-0074	EA		Concrete Slump Test, ASTM C143.....	30.53	
01 45 23 00-0075	EA		Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231.....	30.53	
01 45 23 00-0076			Cement Testing (01 45 23 00-0063)		
01 45 23 00-0077	EA		Cement Grab Sample (CCR Title 24).....	30.53	
			Note: Includes sealing and storing 1 year.		
01 45 23 00-0078	EA		2" x 2" x 2" Cube Compression Test, All Type Materials.....	48.85	
01 45 23 00-0079			Asphaltic Concrete Testing (01 45 23 00-0063)		
01 45 23 00-0080	EA		Hveem Asphaltic Concrete Stability Test, CA 366.....	61.06	
01 45 23 00-0081	EA		Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927.....	158.76	
01 45 23 00-0082	EA		Stability Tests, Premixed, ASTM D1559.....	61.06	
01 45 23 00-0083	EA		Stability Tests, Lab. Mixed, ASTM D1559.....	158.76	
01 45 23 00-0084	EA		Swell Test, CA 305.....	73.27	
			Note: Includes compaction.		

01 General Requirements**01 40 Quality Requirements****01 45 Quality Control**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0085 EA % Asphalt Extraction Test, ASTM D-2172 B.....	183.18	
01 45 23 00-0086 EA Gradation On Extracted Sample, ASTM D-5444	122.12	
01 45 23 00-0087 EA Maximum Theoretical Unit Weight, ASTM C2041	116.39	
01 45 23 00-0088 EA Unit Weight Sample Requiring Compaction, California Test Method 308.....	24.42	
01 45 23 00-0089 EA Asphalt Unit Weight On Core Test, CA 308C	24.42	
01 45 23 00-0090 HR Nuclear Field Density Testing, 4 Hour Minimum	125.78	
01 45 23 00-0091 EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664.....	82.40	
01 45 23 00-0092 EA Penetration, ASTM D5.....	88.20	
01 45 23 00-0093 Masonry/Concrete Block/Tile Testing (01 45 23)		
01 45 23 00-0094 Masonry Testing (01 45 23 00-0093)		
01 45 23 00-0095 EA 2" x 4" Cylinder Mortar Compression Test	40.30	
01 45 23 00-0096 EA 4" x 4" x 8" Grout Prisms Compression Test.....	40.30	
01 45 23 00-0097 EA Masonry Cores Compression Test.....	79.38	
01 45 23 00-0098 EA Composite Grouted Prism Compression Test.....	152.65	
01 45 23 00-0099 Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0093)		
01 45 23 00-0100 EA Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140.....	97.70	
01 45 23 00-0101 EA Absorption Test, Moisture Content And Unit Weight.....	67.17	
01 45 23 00-0102 EA Moisture Condition By Relative Humidity, ASTM C427, First Unit	256.35	
01 45 23 00-0103 EA Moisture Condition By Relative Humidity, ASTM C427, Additional Unit.....	128.18	
01 45 23 00-0104 Metals Testing (01 45 23)		
01 45 23 00-0105 Tank Tightness Testing (01 45 23 00-0104)		
01 45 23 00-0106 GAL Up To 20 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks	6.69	
01 45 23 00-0107 GAL >20 To 120 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks.....	5.73	
01 45 23 00-0108 EA Up To 12,000 Gallons, Tank Volumetric Tightness Testing.....	1,721.15	
01 45 23 00-0109 EA >12,000 To 29,999 Gallons, Tank Volumetric Tightness Testing.....	2,102.96	
01 45 23 00-0110 EA >29,999 Gallons, Tank Volumetric Tightness Testing.....	2,678.20	
01 45 23 00-0111 Tank Line Tightness Testing (01 45 23 00-0104)		
01 45 23 00-0112 EA Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing	363.17	
01 45 23 00-0113 EA >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing.....	403.26	
01 45 23 00-0114 EA >29,999 Gallons, Tank Line Volumetric Tightness Testing.....	443.22	
01 45 23 00-0115 Other Testing (01 45 23)		
01 45 23 00-0116 Special Testing (01 45 23 00-0115)		
01 45 23 00-0117 EA Asphalt Roofing Cut-out Samples, To Determine Unit Weight.....	94.66	
01 45 23 00-0118 EA Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617	567.93	
01 45 23 00-0119 EA Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria)	28.56	
01 45 23 00-0120 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample.....	118.37	
01 45 23 00-0121 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample	118.37	
01 45 23 00-0122 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample.....	118.37	
01 45 23 00-0123 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample.....	651.04	
01 45 23 00-0124 Nondestructive Field Testing Services (01 45 23 00-0115)		
01 45 23 00-0125 Infrared Thermography (01 45 23 00-0124)		
Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.		
01 45 23 00-0126 Concrete Block Wall Investigation Using Infrared Thermography (01 45 23 00-0125)		
Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.		
01 45 23 00-0127 EA Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge	1,124.52	
01 45 23 00-0128 CSF Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography.....	3.55	
For Digital Or Analog Recording Of All Items, Add	0.53	
01 45 23 00-0129 CSF >50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	2.37	
For Digital Or Analog Recording Of All Items, Add	0.36	
01 45 23 00-0130 Other Nondestructive Field Testing Services (01 45 23 00-0124)		
01 45 23 00-0131 HR ASNT Certified Level I NDT Consultant	70.32	
01 45 23 00-0132 HR ASNT Certified Level II NDT Consultant.....	103.52	
01 45 23 00-0133 HR ASNT Certified Level III NDT Consultant.....	128.05	
01 45 23 00-0134 HR Certified Industrial Radiography Radiation Safety Personnel	117.70	

01 50 Temporary Facilities And Controls (01)

Note: Tasks in this section shall be used as directed by owner.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 51 Temporary Utilities (01 50)

01 51 13 Temporary Electricity (01 51)

01 51 13 00-0001 Service Switch And/Or Building Feeder Switch (01 51 13)

Note: Includes all connections and removal after use.

01 51 13 00-0002	EA	Temporary 30 Amp, 240 Volt, NEMA 3R Service Switch Or Building Feeder Switch With Fuses	748.68
01 51 13 00-0003	EA	Temporary 60 Amp, 240 Volt, NEMA 3R Service Switch Or Building Feeder Switch With Fuses	941.80
01 51 13 00-0004	EA	Temporary 100 Amp, NEMA 1 Or 3R Disconnect Switch With Fuses	1,289.00
01 51 13 00-0005	EA	Temporary 200 Amp, NEMA 1 Or 3R Disconnect Switch With Fuses	1,992.13
01 51 13 00-0006	EA	Temporary 400 Amp, 240 Volt, NEMA 3R Disconnect Switch With Fuses	3,681.45
01 51 13 00-0007	EA	Temporary 600 Amp, 240 Volt, NEMA 3R Disconnect Switch With Fuses	6,134.11
01 51 13 00-0008	EA	Temporary 800 Amp, 240 Volt, NEMA 3R Disconnect Switch With Fuses	8,508.14
01 51 13 00-0009	EA	Temporary 1,200 Amp, 240 Volt, NEMA 3R Disconnect Switch With Fuses	13,736.93
01 51 13 00-0010	EA	Temporary 2,000 Amp, 240 Volt, NEMA 3R Disconnect Switch With Fuses	19,106.38

01 51 13 00-0011 120/208 Volt Main Lug Panelboard Complete With Branch Fuses (01 51 13)

Note: Includes removal after use.

01 51 13 00-0012	EA	Temporary 100 Amp Panelboard Complete With GFCI Circuit Breakers	1,369.11
01 51 13 00-0013	EA	Temporary 200 Amp Panelboard Complete With GFCI Circuit Breakers	1,881.70
01 51 13 00-0014	EA	Temporary 400 Amp Panelboard Complete With GFCI Circuit Breakers	2,952.27
01 51 13 00-0015	EA	Temporary 600 Amp Panelboard Complete With GFCI Circuit Breakers	4,150.73

01 51 13 00-0016 Temporary Conduit And Cable For Temporary Disconnect Switches And Temporary Panelboards (01 51 13)

Note: Includes all connections, fittings, supports and removal after use.

01 51 13 00-0017	LF	Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards	6.52
01 51 13 00-0018	LF	Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards	7.15

01 51 13 00-0019 Cord Grip Plug (01 51 13)

Note: Includes installation, a maximum of 50' of cord, connection to source and removal after use.

01 51 13 00-0020	EA	Temporary 2 Pole Cord Grip Plug With Installation	235.69
01 51 13 00-0021	EA	Temporary 3 Pole Cord Grip Plug With Installation	352.88
01 51 13 00-0022	EA	Temporary 4 Pole Cord Grip Plug With Installation	441.05
01 51 13 00-0023	EA	Temporary 3 Pole (30 A) Cord Grip Plug With Installation	343.44
01 51 13 00-0024	EA	Temporary 4 Pole (30 A) Cord Grip Plug With Installation	425.95
01 51 13 00-0025	EA	Temporary 3 Pole (50 A) Cord Grip Plug With Installation	376.99

01 51 26 Temporary Lighting (01 51)

01 51 26 00-0001 Temporary Devices (01 51 26)

Note: Includes removal after use.

01 51 26 00-0002	EA	Temporary Exit Light	277.71
01 51 26 00-0003	EA	Temporary 10 Light String With Cages	94.63
01 51 26 00-0004	EA	Temporary High Bay Light	346.67

01 52 Construction Facilities (01 50)

Note: Tasks in this section shall be used as directed by owner for owner's use.

01 52 13 Field Offices And Sheds (01 52)

01 52 13 00-0001 Field Offices (01 52 13)

Note: Excludes furniture, utility connections and service. Minimum 6 months rental.

01 52 13 00-0002	MO	8' x 24' Mobile Office, With Toilet	159.67
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	663.15
		<i>For Each Set-Up (Block And Level), Add</i>	372.32
		<i>For Each Anchoring Into Dirt, Add</i>	113.53
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	170.30
		<i>For Office Trailer Without Toilet, Deduct</i>	-31.93
01 52 13 00-0003	MO	8' x 32' Mobile Office, With Toilet	180.96
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	663.15
		<i>For Each Set-Up (Block And Level), Add</i>	372.32
		<i>For Each Anchoring Into Dirt, Add</i>	113.53
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	170.30
		<i>For Office Trailer Without Toilet, Deduct</i>	-36.19
01 52 13 00-0004	MO	10' x 36' Mobile Office, With Toilet	244.83
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	939.47
		<i>For Each Set-Up (Block And Level), Add</i>	607.48
		<i>For Each Anchoring Into Dirt, Add</i>	113.53
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	170.30
		<i>For Office Trailer Without Toilet, Deduct</i>	-48.97
01 52 13 00-0005	MO	10' x 40' Mobile Office, With Toilet	260.80
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	939.47
		<i>For Each Set-Up (Block And Level), Add</i>	607.48
		<i>For Each Anchoring Into Dirt, Add</i>	113.53
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	170.30
		<i>For Office Trailer Without Toilet, Deduct</i>	-52.16

01	General Requirements
01 50	Temporary Facilities And Controls
01 52	Construction Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0006 MO 10' x 44' Mobile Office, With Toilet.....	287.41	
For Each Delivery And Removal, Two Round Trips, Add	939.47	
For Each Set-Up (Block And Level), Add	607.48	
For Each Anchoring Into Dirt, Add	113.53	
For Each Anchoring Into Asphalt Or Concrete, Add	170.30	
01 52 13 00-0007 MO 10' x 50' Mobile Office, With Toilet.....	303.37	
For Each Delivery And Removal, Two Round Trips, Add	939.47	
For Each Set-Up (Block And Level), Add	607.48	
For Each Anchoring Into Dirt, Add	113.53	
For Each Anchoring Into Asphalt Or Concrete, Add	170.30	
01 52 13 00-0008 MO 12' x 32' Mobile Office, With Toilet.....	234.71	
For Each Anchoring Into Dirt, Add	113.53	
For Each Anchoring Into Asphalt Or Concrete, Add	170.30	
For Each Delivery And Set-Up (Block And Level), Add	903.43	
For Each Knock-Down And Pick-Up, Add	708.43	
01 52 13 00-0009 MO 12' x 44' Mobile Office, With Toilet.....	313.81	
For Each Delivery And Removal, Two Round Trips, Add	939.47	
For Each Set-Up (Block And Level), Add	607.48	
For Each Anchoring Into Dirt, Add	113.53	
For Each Anchoring Into Asphalt Or Concrete, Add	170.30	
01 52 13 00-0010 MO 12' x 50' Mobile Office, With Toilet.....	356.60	
For Each Delivery And Removal, Two Round Trips, Add	939.47	
For Each Set-Up (Block And Level), Add	607.48	
For Each Anchoring Into Dirt, Add	113.53	
For Each Anchoring Into Asphalt Or Concrete, Add	170.30	
01 52 13 00-0011 MO 12' x 60' Mobile Office, With Toilet.....	388.53	
For Each Delivery And Removal, Two Round Trips, Add	939.47	
For Each Set-Up (Block And Level), Add	607.48	
For Each Anchoring Into Dirt, Add	113.53	
For Each Anchoring Into Asphalt Or Concrete, Add	170.30	
01 52 13 00-0012 MO 24' x 60' Modular Office, With Toilet.....	851.57	
For Each Delivery And Removal, Two Round Trips, Add	1,768.41	
For Each Set-Up (Block And Level), Add	979.80	
For Each Anchoring Into Dirt, Add	113.53	
For Each Anchoring Into Asphalt Or Concrete, Add	170.30	
01 52 13 00-0013 MO 24' x 72' Modular Office, With Toilet.....	1,021.88	
For Each Delivery And Removal, Two Round Trips, Add	1,768.41	
For Each Set-Up (Block And Level), Add	979.80	
For Each Anchoring Into Dirt, Add	113.53	
For Each Anchoring Into Asphalt Or Concrete, Add	170.30	
01 52 13 00-0014 MO 30' x 30' Modular Office, With Toilet.....	485.66	
For Each Delivery And Removal, Two Round Trips, Add	1,768.41	
For Each Set-Up (Block And Level), Add	979.80	
For Each Anchoring Into Dirt, Add	113.53	
For Each Anchoring Into Asphalt Or Concrete, Add	170.30	
01 52 13 00-0015 Accessories For Field Office Trailers (01 52 13)		
Note: Costs includes installation or placement in trailer.		
01 52 13 00-0016 MO Desk For Field Office Trailer.....	31.50	
01 52 13 00-0017 MO Rolling Desk Chair For Field Office Trailer.....	19.69	
01 52 13 00-0018 MO File Cabinet For Field Office Trailer.....	23.63	
01 52 13 00-0019 MO Table For Field Office Trailer.....	15.75	
01 52 13 00-0020 MO Folding Chair For Field Office Trailer.....	7.46	
01 52 13 00-0021 EA Phone Hook-Up For Field Office Trailer.....	86.63	
01 52 13 00-0022 MO Local Phone Service Per Phone Line For Field Office Trailer.....	55.13	
01 52 13 00-0023 MO Security System With Monitoring For Field Office Trailer.....	99.26	
01 52 13 00-0024 LF Perimeter Vinyl Trailer Skirting For Field Office Trailer.....	13.63	
01 52 13 00-0025 LF Insulated Perimeter Trailer Skirting For Field Office Trailer.....	32.27	
01 52 13 00-0026 MO Steps For Field Office Trailer.....	39.74	
01 52 13 00-0027 MO Fax Machine For Field Office Trailer.....	39.38	
01 52 13 00-0028 MO Copier For Field Office Trailer.....	63.00	
01 52 13 00-0029 Storage Containers (01 52 13)		
01 52 13 00-0030 MO 8' x 8' x 10' Storage Container.....	90.58	
For Each Delivery And Removal, Two Round Trips, Add	203.12	
For >12 Months, Deduct	-27.17	
01 52 13 00-0031 MO 8' x 8' x 20' Storage Container.....	94.70	
For Each Delivery And Removal, Two Round Trips, Add	223.44	
For >12 Months, Deduct	-28.41	
01 52 13 00-0032 MO 8' x 8' x 40' Storage Container.....	112.00	
For Each Delivery And Removal, Two Round Trips, Add	450.00	
For >12 Months, Deduct	-33.60	
01 52 19 Sanitary Facilities (01 52)		
01 52 19 00-0001 Portable Toilets (01 52 19)		
Note: Includes set-up, servicing once per week and removal.		
01 52 19 00-0002 WK Portable Chemical Toilet.....	35.00	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Delivery, Add	45.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 19 00-0003	MO		Portable Chemical Toilet.....	104.99	
			For Each Additional Servicing Per Unit Per Week, Add	25.00	
			For Delivery, Add	45.00	
01 52 19 00-0004	WK		ADA Portable Chemical Toilet	41.74	
			For Each Additional Servicing Per Unit Per Week, Add	25.00	
			For Delivery, Add	45.00	
01 52 19 00-0005	MO		ADA Portable Chemical Toilet	122.49	
			For Each Additional Servicing Per Unit Per Week, Add	25.00	
			For Delivery, Add	45.00	
01 52 19 00-0006	WK		Two Station Portable Handwash.....	30.18	
			For Delivery, Add	45.00	
01 52 19 00-0007	MO		Two Station Portable Handwash.....	91.56	
			For Delivery, Add	45.00	
01 52 19 00-0008	MO		Portable Toilets, Multi Trailer, 16'.....	2,764.75	
			Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink)		
01 52 19 00-0009	WK		Service Trailer Restrooms, 3 Times Per Week.....	2,072.50	

01 53 Temporary Construction (01 50)

01 53 16 Temporary Decking (01 53)

01 53 16 00-0001 Temporary Walkways And Railings (01 53 16)

Note: Includes removal after use.

01 53 16 00-0002	SF		Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers	5.09	
01 53 16 00-0003	LF		Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail	26.85	
01 53 16 00-0004	LF		Temporary Wood Guardrail Base, 12" x 12" Timber Beam.....	8.90	
01 53 16 00-0005	RSR		Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers.....	18.16	

01 53 23 Temporary Ramps (01 53)

01 53 23 00-0001 Temporary Plywood For Wheel Barrow Access (01 53 23)

Note: Includes removal after use.

01 53 23 00-0002	SF		Temporary Plywood For Wheel Barrow Access.....	1.28	0.42
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01 54 Construction Aids (01 50)

01 54 23 Temporary Scaffolding And Platforms (01 54)

01 54 23 00-0001 Scaffolding (01 54 23)

Note: Additional scaffolding rental for work above the normal working height of 14'.

01 54 23 00-0002 Scaffolding Rental - Rental Only (01 54 23 00-0001)

Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps and building ties, etc. See CSI section 01 54 23 00-0006 for scaffolding erection and dismantling.

01 54 23 00-0003	CCF		Scaffolding With Bracing Accessories - Area Based On 5' Wide Sections (CCF / Month).....	21.19	
			For Up To 25, Add	8.48	
			For >25 To 50, Add	5.30	
			For >50 To 150, Add	2.12	
01 54 23 00-0004	CCF		Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	23.83	
			For Up To 25, Add	9.53	
			For >25 To 50, Add	5.96	
			For >50 To 150, Add	2.38	
01 54 23 00-0005	CCF		Scaffolding With Bracing Accessories - Area Based On 3' Wide Sections (CCF / Month).....	31.78	
			For Up To 25, Add	12.71	
			For >25 To 50, Add	7.95	
			For >50 To 150, Add	3.18	

01 54 23 00-0006 Scaffolding Erection And Dismantling - Labor Only (01 54 23 00-0001)

Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0002 for scaffolding rental.

01 54 23 00-0007	CCF		Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	43.87	
01 54 23 00-0008	CCF		>20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	54.85	
01 54 23 00-0009	CCF		>40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	65.82	
01 54 23 00-0010	CCF		>60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	72.40	
01 54 23 00-0011	CCF		>80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	83.37	
01 54 23 00-0012	CCF		Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set Up On Stairs, Per CCF Of Scaffolding And Accessories	52.66	

01 54 23 00-0013 Heavy Duty Masonry Scaffolding Rental - Rental Only (01 54 23 00-0001)

Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps, flat plate, connectors and building ties, etc. See CSI section 01 54 23 00-0019 for erection.

01 54 23 00-0014	CCF		Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	37.67	
01 54 23 00-0015	CCF		Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 2' Wide Sections (CCF / Month).....	69.07	
01 54 23 00-0016	LF		Aluminum Joists (LF / Month)	6.12	
01 54 23 00-0017	LF		Aluminum Stringers (LF / Month)	8.78	
01 54 23 00-0018	EA		Screw Jack With U-Plate For Stringers (EA / Month).....	11.07	

01	General Requirements
01 50	Temporary Facilities And Controls
01 54	Construction Aids



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 54 23 00-0019	Heavy Duty Masonry Scaffolding Erection And Dismantling - Labor Only ^(01 54 23 00-0001) Note: Includes both initial erection and final dismantling. Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0013 for scaffolding rental.		
01 54 23 00-0020	CCF Up To 20' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	70.21	
01 54 23 00-0021	CCF >20' To 40' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	87.76	
01 54 23 00-0022	CCF >40' To 60' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	105.31	
01 54 23 00-0023	CCF >60' To 80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	114.08	
01 54 23 00-0024	CCF >80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	127.25	
01 54 23 00-0025	Scaffolding Accessories ^(01 54 23 00-0001) See CSI section 01 54 23 00-0019 for erection.		
01 54 23 00-0026	CSF Netting for Exterior Building Scaffolding..... Note: Includes removal after use.	27.07	
01 54 23 00-0027	Rolling Scaffolding ^(01 54 23) Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.		
01 54 23 00-0028	DAY Rolling Scaffolding >14' To 20' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	9.85	
01 54 23 00-0029	WK Rolling Scaffolding >14' To 20' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	39.46	
01 54 23 00-0030	MO Rolling Scaffolding >14' To 20' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	157.84	
01 54 23 00-0031	DAY Rolling Scaffolding >20' To 40' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	16.49	
01 54 23 00-0032	WK Rolling Scaffolding >20' To 40' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	66.03	
01 54 23 00-0033	MO Rolling Scaffolding >20' To 40' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	264.15	
01 54 23 00-0034	EA Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold, >14' To 20'.....	87.64	
01 54 23 00-0035	EA Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold, >20' To 40'.....	109.55	
01 54 23 00-0036	Shoring Posts ^(01 54 23) Note: Includes moving to perform task and removal after use. No additional cost for relocating will be allowed.		
01 54 23 00-0037	DAY 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post.....	4.42	
01 54 23 00-0038	WK 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post.....	13.27	
01 54 23 00-0039	MO 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post.....	22.12	
01 54 23 00-0040	Temporary Lumber For Platforms, Scaffolding And Bracing ^(01 54 23) Note: Includes removal after use.		
01 54 23 00-0041	SF 5/16" CD Grade Plywood, Temporary Lumber.....	1.44	0.59
01 54 23 00-0042	SF 1/2" CD Grade Plywood, Temporary Lumber.....	1.69	0.59
01 54 23 00-0043	SF 5/8" CD Grade Plywood, Temporary Lumber.....	1.93	0.59
01 54 23 00-0044	SF 3/4" CD Grade Plywood, Temporary Lumber.....	2.17	0.59
01 54 23 00-0045	SF 1" CD Grade Plywood, Temporary Lumber.....	3.13	0.87
01 54 23 00-0046	LF 2" x 4" Temporary Lumber.....	1.06	1.22
01 54 23 00-0047	LF 2" x 6" Temporary Lumber.....	1.57	1.22
01 54 23 00-0048	LF 2" x 8" Temporary Lumber.....	2.08	1.22
01 54 23 00-0049	LF 2" x 10" Temporary Lumber.....	2.62	1.22
01 54 23 00-0050	LF 2" x 12" Temporary Lumber.....	3.14	1.22
01 54 23 00-0051	LF 3" x 8" Temporary Lumber.....	3.14	1.22
01 54 23 00-0052	LF 3" x 10" Temporary Lumber.....	3.93	1.22
01 54 23 00-0053	LF 3" x 12" Temporary Lumber.....	4.71	1.22
01 54 23 00-0054	LF 4" x 4" Temporary Lumber.....	2.23	0.61
01 54 23 00-0055	LF 4" x 6" Temporary Lumber.....	3.17	0.76
01 54 23 00-0056	LF 6" x 6" Temporary Lumber.....	4.10	0.91
01 54 23 00-0057	LF 6" x 8" Temporary Lumber.....	5.32	1.13
01 54 23 00-0058	LF 12" x 12" Temporary Lumber.....	12.77	1.82
01 54 23 00-0059	Temporary Precast Concrete Blocks ^(01 54 23) Note: Includes removal after use.		
01 54 23 00-0060	EA 2' x 2' x 2' Temporary Precast Concrete Block.....	84.30	
01 54 23 00-0061	EA 2' x 2' x 4' Temporary Precast Concrete Block.....	105.38	
01 54 23 00-0062	EA 2' x 2' x 8' Temporary Precast Concrete Block.....	126.46	
01 54 26	Temporary Swing Staging ^(01 54) Note: Up to one month rental. Includes connection to existing electrical outlet on roof, all necessary safety equipment for personnel and anchoring to existing roof anchors. Excludes installing roof anchors.		
01 54 26 00-0001	Swing Stage ^(01 54 26) Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.		
01 54 26 00-0002	MO 7' Swing Stage, Electric Operated.....	1,655.88	
01 54 26 00-0003	MO 10' Swing Stage, Electric Operated.....	1,738.68	
01 54 26 00-0004	MO 14' Swing Stage, Electric Operated.....	1,821.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 26 00-0005 MO 20' Swing Stage, Electric Operated	1,904.27	
01 54 26 00-0006 MO 24' Swing Stage, Electric Operated	1,987.06	
01 54 26 00-0007 MO 30' Swing Stage, Electric Operated	2,069.86	
01 54 26 00-0008 MO 42' Swing Stage, Electric Operated	2,152.65	
01 54 26 00-0009 MO 12' Swing Stage, Manually Operated.....	477.50	
01 54 26 00-0010 MO 24' Swing Stage, Manually Operated.....	596.88	
01 54 26 00-0011 EA Swing Stage Platform From Hooks, Erection And Dismantling.....	3,734.38	
Note: Includes both initial erection and final dismantling of platform. Excludes anchors or temporary roof mounted outrigger system.		
01 54 26 00-0012 EA Swing Stage Platform And Temporary Roof Mounted Outrigger System Erection And Dismantling	5,189.55	
Note: Includes both initial erection and final dismantling of temporary roof mounted outrigger system.		
01 54 26 00-0013 EA Move Swing Stage Platform From Hooks To Different Location At Same Roof.....	1,963.62	
01 54 26 00-0014 EA Move Swing Stage Platform and Temporary Roof Mounted Outrigger System To Different Location At Same Roof.....	2,735.03	

01 55 Vehicular Access And Parking (01 50)

01 55 23 Temporary Roads (01 55)

01 55 23 00-0001 Temporary Stabilized Construction Entrance (01 55 23)

Note: As per Caltrans detail.

01 55 23 00-0002 SF 3" To 4" Rock Temporary Stabilized Construction Entrance Assembly	3.24	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0003 SF >4" To 6" Rock Temporary Stabilized Construction Entrance Assembly	3.79	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		

01 55 23 00-0004 Rumble Trench Plate (01 55 23)

01 55 23 00-0005 MO 8' x 10' Steel Rumble Trench Plate Rental.....	221.18	
01 55 23 00-0006 EA Place And Remove Rumble Plate.....	76.82	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0007 EA Relocate And Adjust Location Of Rumble Plate.....	19.21	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		

01 55 23 00-0008 Temporary Road Ramps (Godwin) (01 55 23)

Note: Excludes asphalt and gravel.

01 55 23 00-0009 EA 4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	3,059.53	168.88
01 55 23 00-0010 EA 6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	4,175.12	253.32
01 55 23 00-0011 EA 8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	5,764.05	337.76
01 55 23 00-0012 EA 12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	11,849.83	422.20
01 55 23 00-0013 EA 24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	17,343.92	506.64

01 55 26 Traffic Control (01 55)

01 55 26 00-0001 Removable Preformed Traffic Black Line Mask (01 55 26)

Note: Includes installation and removal after use.

01 55 26 00-0002 LF 6" Removable Traffic Black Line Mask	4.39	
01 55 26 00-0003 LF 8" Removable Traffic Black Line Mask	5.38	

01 55 26 00-0004 Temporary Preformed Traffic Line Tape (01 55 26)

Note: Includes installation and removal after use.

01 55 26 00-0005 LF 4" Reflective Removable Traffic Line Tape.....	3.33	
01 55 26 00-0006 LF 6" Reflective Removable Traffic Line Tape.....	4.44	
01 55 26 00-0007 LF 8" Reflective Removable Traffic Line Tape	5.48	

01 55 26 00-0008 Temporary Painted Traffic Lines (01 55 26)

Note: Includes installation and removal after use.

01 55 26 00-0009 LF 4" Temporary Painted Traffic Lines.....	1.83	
<i>For Not Removed, Deduct</i>		
	-2.49	
01 55 26 00-0010 LF 6" Temporary Painted Traffic Lines.....	2.41	
<i>For Not Removed, Deduct</i>		
	-3.40	
01 55 26 00-0011 LF 8" Temporary Painted Traffic Lines.....	3.02	
<i>For Not Removed, Deduct</i>		
	-4.30	
01 55 26 00-0012 EA 2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.39	
01 55 26 00-0013 EA 2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.41	

01 55 26 00-0014 Pedestrian Traffic Control (01 55 26)

01 55 26 00-0015 CLF 1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	11.69	
01 55 26 00-0016 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	16.08	
01 55 26 00-0017 CLF 3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	8.03	
01 55 26 00-0018 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	10.22	
01 55 26 00-0019 CLF 3", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent	11.65	
01 55 26 00-0020 CLF 6", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent	17.28	

01	General Requirements
01 50	Temporary Facilities And Controls
01 55	Vehicular Access And Parking



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 55 26 00-0021	CLF	1" Exterior Vinyl Tape (Warning Tape).....	14.83
01 55 26 00-0022	CLF	2" Exterior Vinyl Tape (Warning Tape).....	22.03
01 55 26 00-0023	CLF	3" Exterior Vinyl Tape (Warning Tape).....	29.17
01 55 26 00-0024	CLF	4" Exterior Vinyl Tape (Warning Tape).....	34.21

01 55 26 00-0025 Linear Delineation System, Temporary Or Permanent (01 55 26)

Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.

01 55 26 00-0026	LF	4" Linear Delineation System.....	6.67
01 55 26 00-0027	LF	6" Linear Delineation System.....	8.88

01 55 26 00-0028 Traffic Protection (01 55 26)

01 55 26 00-0029 Portable Traffic Control Device Usage (01 55 26 00-0028)

Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0105 for delivery, placing and removal.

01 55 26 00-0030	DAY	28" Cone With Reflective Collar.....	0.47
01 55 26 00-0031	WK	28" Cone With Reflective Collar.....	1.42
01 55 26 00-0032	MO	28" Cone With Reflective Collar.....	4.27
01 55 26 00-0033	DAY	Vertical Panel.....	1.43
01 55 26 00-0034	WK	Vertical Panel.....	4.30
01 55 26 00-0035	MO	Vertical Panel.....	12.91
01 55 26 00-0036	DAY	Channelizer Drum.....	1.56
01 55 26 00-0037	WK	Channelizer Drum.....	4.67
01 55 26 00-0038	MO	Channelizer Drum.....	14.01
01 55 26 00-0039	DAY	Stackable Channelizer Panel.....	0.74
01 55 26 00-0040	WK	Stackable Channelizer Panel.....	2.21
01 55 26 00-0041	MO	Stackable Channelizer Panel.....	6.63
01 55 26 00-0042	DAY	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	1.02
01 55 26 00-0043	WK	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	3.06
01 55 26 00-0044	MO	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	9.18
01 55 26 00-0045	DAY	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	2.26
01 55 26 00-0046	WK	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	6.78
01 55 26 00-0047	MO	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	20.34
01 55 26 00-0048	DAY	Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	2.58
01 55 26 00-0049	WK	Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	7.73
01 55 26 00-0050	MO	Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	23.18
01 55 26 00-0051	DAY	Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	4.71
01 55 26 00-0052	WK	Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	14.14
01 55 26 00-0053	MO	Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	42.41
01 55 26 00-0054	DAY	Up To 10' Wide A Frame Barricade.....	2.58
01 55 26 00-0055	WK	Up To 10' Wide A Frame Barricade.....	7.75
01 55 26 00-0056	MO	Up To 10' Wide A Frame Barricade.....	23.26
01 55 26 00-0057	DAY	Type A Or C Flasher.....	0.53
01 55 26 00-0058	WK	Type A Or C Flasher.....	1.58
01 55 26 00-0059	MO	Type A Or C Flasher.....	4.74
01 55 26 00-0060	DAY	Type B Flasher (High Intensity).....	2.86
01 55 26 00-0061	WK	Type B Flasher (High Intensity).....	8.57
01 55 26 00-0062	MO	Type B Flasher (High Intensity).....	25.71

01 55 26 00-0063 Traffic Barriers Usage (01 55 26 00-0028)

Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0105 for delivery, placing and removal.

01 55 26 00-0064	DAY	6' Long Portable Parking Curbs.....	1.23
01 55 26 00-0065	WK	6' Long Portable Parking Curbs.....	3.69
01 55 26 00-0066	MO	6' Long Portable Parking Curbs.....	11.08
01 55 26 00-0067	DAY	6' Long Portable Speed Bumps.....	3.64
01 55 26 00-0068	WK	6' Long Portable Speed Bumps.....	10.93
01 55 26 00-0069	MO	6' Long Portable Speed Bumps.....	32.78
01 55 26 00-0070	DAY	Up To 12.5' Concrete Traffic Barrier.....	8.75
01 55 26 00-0071	WK	Up To 12.5' Concrete Traffic Barrier.....	26.25
01 55 26 00-0072	MO	Up To 12.5' Concrete Traffic Barrier.....	78.74
01 55 26 00-0073	DAY	>12.5' To 20' Concrete Traffic Barrier.....	17.50
01 55 26 00-0074	WK	>12.5' To 20' Concrete Traffic Barrier.....	52.49
01 55 26 00-0075	MO	>12.5' To 20' Concrete Traffic Barrier.....	157.48
01 55 26 00-0076	DAY	6' x 32" Tall Plastic Water Barrier.....	10.45
01 55 26 00-0077	WK	6' x 32" Tall Plastic Water Barrier.....	31.34
01 55 26 00-0078	MO	6' x 32" Tall Plastic Water Barrier.....	94.03
01 55 26 00-0079	DAY	6' x 46" Tall Plastic Water Barrier.....	14.92
01 55 26 00-0080	WK	6' x 46" Tall Plastic Water Barrier.....	44.76
01 55 26 00-0081	MO	6' x 46" Tall Plastic Water Barrier.....	134.27
01 55 26 00-0082	DAY	Sand Filled Crash Attenuator Barrels.....	5.84
01 55 26 00-0083	WK	Sand Filled Crash Attenuator Barrels.....	17.52
01 55 26 00-0084	MO	Sand Filled Crash Attenuator Barrels.....	52.56
01 55 26 00-0085	MON	24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER).....	830.32

Note: Consists of 8 bays with nose piece at the front of the system.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0086 Portable Signs And Message Displays Usage <small>(01 55 26 00-0028)</small>		
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0105 for delivery, placing and removal.		
01 55 26 00-0087 DAY Mesh Or Vinyl Roll-up Sign With Stand	4.58	
01 55 26 00-0088 WK Mesh Or Vinyl Roll-up Sign With Stand	13.75	
01 55 26 00-0089 MO Mesh Or Vinyl Roll-up Sign With Stand	41.26	
01 55 26 00-0090 DAY Aluminum Sign And Post	2.49	
01 55 26 00-0091 WK Aluminum Sign And Post	7.47	
01 55 26 00-0092 MO Aluminum Sign And Post	22.40	
01 55 26 00-0093 DAY Aluminum Sign And A Frame Stand	3.47	
01 55 26 00-0094 WK Aluminum Sign And A Frame Stand	10.40	
01 55 26 00-0095 MO Aluminum Sign And A Frame Stand	31.20	
01 55 26 00-0096 DAY Trailer Mounted Flashing Arrow Board	87.00	
01 55 26 00-0097 WK Trailer Mounted Flashing Arrow Board	240.79	
01 55 26 00-0098 MO Trailer Mounted Flashing Arrow Board	410.00	
01 55 26 00-0099 DAY Trailer Mounted Portable Variable Message Sign (PVMS)	300.00	
01 55 26 00-0100 WK Trailer Mounted Portable Variable Message Sign (PVMS)	800.00	
01 55 26 00-0101 MO Trailer Mounted Portable Variable Message Sign (PVMS)	1,600.00	
01 55 26 00-0102 DAY Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	780.64	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0103 WK Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	2,341.92	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0104 MO Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	7,025.76	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0105 Place And Remove Traffic Protection Using Truck <small>(01 55 26 00-0028)</small>		
Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0051 for delivery >15 miles.		
01 55 26 00-0106 EA Place And Remove Up To 250 Cones Using Truck	3.77	
01 55 26 00-0107 EA Place And Remove >250 Cones Using Truck	3.01	
01 55 26 00-0108 EA Place And Remove Up To 250 Panels/Channelizers Using Truck	5.02	
01 55 26 00-0109 EA Place And Remove >250 Panels/Channelizers Using Truck	4.01	
01 55 26 00-0110 EA Place And Remove Up To 250 Barricades Using Truck	7.53	
01 55 26 00-0111 EA Place And Remove >250 Barricades Using Truck	6.03	
01 55 26 00-0112 EA Place And Remove Curbs/Speed Bumps Using Truck	7.53	
01 55 26 00-0113 EA Place And Remove Portable Sign And Stand Using Truck	4.52	
01 55 26 00-0114 EA Place And Remove Aluminum Sign And Post Using Truck	18.83	
01 55 26 00-0115 EA Place And Remove Trailer Mounted Boards And Signals Using Truck	56.47	
01 55 26 00-0116 EA Place And Remove Up To 12.5' Concrete Traffic Barrier	76.82	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	192.05	
For 2 Barriers, Add	69.14	
For 3 Barriers, Add	23.05	
01 55 26 00-0117 EA Place And Remove >12.5' Concrete Traffic Barrier	115.23	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	288.08	
For 2 Barriers, Add	103.71	
For 3 Barriers, Add	34.57	
01 55 26 00-0118 EA Place And Remove Plastic Water Barrier	42.41	
Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for Equipment Usage, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	96.03	
For 2 Barriers, Add	34.57	
For 3 Barriers, Add	11.52	
01 55 26 00-0119 EA Place And Remove Crash Attenuator Barrels	57.62	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	144.05	
For 2 Barriers, Add	51.86	
For 3 Barriers, Add	17.29	
01 55 26 00-0120 EA Place And Remove 24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER)	422.51	
Note: Consists of 8 bays with nose piece at the front of the system attached and anchored in accordance with the manufactures instructions. Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.		
01 55 26 00-0121 Place And Remove Traffic Protection From Roadside (Daily) <small>(01 55 26 00-0028)</small>		
01 55 26 00-0122 EA Place And Remove Up To 250 Cones By Hand From Roadside	1.88	
01 55 26 00-0123 EA Place And Remove >250 Cones By Hand From Roadside	1.51	
01 55 26 00-0124 EA Place And Remove Up To 250 Panels/Channelizers By Hand From Roadside	2.51	
01 55 26 00-0125 EA Place And Remove >250 Panels/Channelizers By Hand From Roadside	2.00	
01 55 26 00-0126 EA Place And Remove Up To 250 Barricades By Hand From Roadside	3.77	
01 55 26 00-0127 EA Place And Remove >250 Barricades By Hand From Roadside	3.01	
01 55 26 00-0128 EA Place And Remove Portable Sign And Stand From Roadside	2.24	
01 55 26 00-0129 EA Place And Remove Trailer Mounted Boards And Signals From Roadside	28.24	

01	01	General Requirements
	01 50	Temporary Facilities And Controls
	01 55	Vehicular Access And Parking



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 55 26 00-0130 EA Roadside Relocation Of Concrete Traffic Barrier38.41
 Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.

01 55 26 00-0131 Temporary Rumble Strips (01 55 26)
 Note: Includes removal after use.

01 55 26 00-0132 LF 1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip.....7.89
 01 55 26 00-0133 LF 1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip.....5.79

01 56 Temporary Barriers And Enclosures (01 50)
 Note: Includes removal after use.

01 56 16 Temporary Dust Barriers (01 56)

01 56 16 00-0001 Temporary Sheeting For Protection (01 56 16)
 Note: Includes removal after use.

01 56 16 00-0002 SF 6 Mil, Plastic Sheeting, Applied To Floors.....0.28
 01 56 16 00-0003 SF 6 Mil, Plastic Sheeting, Applied To Walls.....0.37
 01 56 16 00-0004 SF 6 Mil, Plastic Sheeting, Applied To Ceilings.....0.50
 01 56 16 00-0005 SF 6 Mil, Plastic Sheeting, Applied To Scaffolding.....0.49
 01 56 16 00-0006 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors.....0.32
 01 56 16 00-0007 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls.....0.41
 01 56 16 00-0008 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings.....0.54
 01 56 16 00-0009 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding.....0.51
 01 56 16 00-0010 SF 10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....0.62
 01 56 16 00-0011 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Floors.....0.34
 01 56 16 00-0012 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Walls.....0.43
 01 56 16 00-0013 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Ceilings.....0.56
 01 56 16 00-0014 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Scaffolding.....0.53
 01 56 16 00-0015 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Floors.....0.33
 01 56 16 00-0016 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Walls.....0.42
 01 56 16 00-0017 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings.....0.55
 01 56 16 00-0018 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding.....0.52
 01 56 16 00-0019 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors.....0.37
 01 56 16 00-0020 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls.....0.46
 01 56 16 00-0021 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings.....0.59
 01 56 16 00-0022 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....0.56

01 56 16 00-0023 Temporary Canvas For Protection (01 56 16)
 Note: Includes removal after use.

01 56 16 00-0024 SF Heavy Duty Woven Water Repellant Canvas, Applied To Walls.....0.75

01 56 16 00-0025 Accessories For Temporary Sheeting (01 56 16)
 Note: Includes removal after use.

01 56 16 00-0026 EA 7' Zipper Door For Plastic Sheeting18.23
 01 56 16 00-0027 LF Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall).....6.17
 Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors.

01 56 16 00-0028 Temporary Critical Barriers For Protection (01 56 16)
 Note: Includes removal after use.

01 56 16 00-0029 EA Up To 1 SF Individual Critical Barriers9.76
 Note: For Outlets And Receptacles
 01 56 16 00-0030 EA >1 To 4 SF Individual Critical Barriers14.76
 Note: For diffusers, ceiling speakers, return grilles, etc.
 01 56 16 00-0031 EA >4 To 8 SF Individual Critical Barriers19.79
 Note: For diffusers, return grilles, access doors, light fixtures, etc.
 01 56 16 00-0032 EA >8 To 32 SF Individual Critical Barriers.....30.59
 Note: For doors, windows, etc.

01 56 16 00-0033 Temporary Stud Wall (01 56 16)
 Note: Includes removal after use.

01 56 16 00-0034 Temporary Stud Wall With Drywall (01 56 16 00-0033)

Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.

01 56 16 00-0035 Temporary Stud Wall With Drywall (01 56 16 00-0034)

01 56 16 00-0036 SF 3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....5.05
 For Metal Studs 24" On Center, Add/Deduct 0.44
 01 56 16 00-0037 SF 1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....5.05
 For Metal Studs 24" On Center, Add/Deduct 0.44
 01 56 16 00-0038 SF 5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....5.12
 For Metal Studs 24" On Center, Add/Deduct 0.44
 01 56 16 00-0039 SF 3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....7.00
 For Metal Studs 24" On Center, Add/Deduct 0.52
 01 56 16 00-0040 SF 1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center7.00
 For Metal Studs 24" On Center, Add/Deduct 0.52



General Requirements			01
Temporary Facilities And Controls			01 50
Temporary Barriers And Enclosures			01 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0041 SF 5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.14 0.52	
01 56 16 00-0042 Temporary Stud Wall With Fire Rated Drywall <small>(01 56 16 00-0034)</small>		
01 56 16 00-0043 SF 1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	5.13 0.44	
01 56 16 00-0044 SF 5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	5.16 0.44	
01 56 16 00-0045 SF 5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	5.13 0.44	
01 56 16 00-0046 SF 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	5.68 0.44	
01 56 16 00-0047 SF 1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.16 0.52	
01 56 16 00-0048 SF 5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.21 0.52	
01 56 16 00-0049 SF 5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.16 0.52	
01 56 16 00-0050 SF 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	8.25 0.52	
01 56 16 00-0051 Temporary Stud Wall With Oriented Strand Board (OSB) <small>(01 56 16 00-0033)</small>		
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.		
01 56 16 00-0052 SF 7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	4.97 0.44	
01 56 16 00-0053 SF 1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	5.01 0.44	
01 56 16 00-0054 SF 5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	5.10 0.44	
01 56 16 00-0055 SF 3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	5.15 0.44	
01 56 16 00-0056 SF 7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.84 0.52	
01 56 16 00-0057 SF 1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.91 0.52	
01 56 16 00-0058 SF 5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.10 0.52	
01 56 16 00-0059 SF 3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.20 0.52	
01 56 16 00-0060 Temporary Stud Wall With BC Plywood <small>(01 56 16 00-0033)</small>		
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.		
01 56 16 00-0061 SF 3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	5.20 0.44	
01 56 16 00-0062 SF 1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	5.32 0.44	
01 56 16 00-0063 SF 5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	5.50 0.44	
01 56 16 00-0064 SF 3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	5.62 0.44	
01 56 16 00-0065 SF 3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.30 0.52	
01 56 16 00-0066 SF 1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.55 0.52	
01 56 16 00-0067 SF 5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.91 0.52	
01 56 16 00-0068 SF 3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	8.13 0.52	
01 56 16 00-0069 Temporary Stud Wall With Plastic Sheeting <small>(01 56 16 00-0033)</small>		
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use.		
01 56 16 00-0070 SF 6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	2.87 0.34	
01 56 16 00-0071 SF 6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	2.92 0.34	
01 56 16 00-0072 SF 6 Mil, Fire Retardant, Anti-Static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	2.94 0.34	
01 56 16 00-0073 SF 6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	2.93 0.34	
01 56 16 00-0074 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	2.97 0.34	
01 56 16 00-0075 Temporary Doors <small>(01 56 16 00-0033)</small>		
Note: For temporary stud walls. Includes removal after use.		

01	General Requirements
01 50	Temporary Facilities And Controls
01 56	Temporary Barriers And Enclosures



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 56 16 00-0076	EA	Temporary Metal Door And Frame	497.52
		Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.	
01 56 16 00-0077		Temporary Floor Protection (01 56 16)	
		Note: Includes removal after use.	
01 56 16 00-0078	SF	Masonite For Temporary Floor Protection	1.53
01 56 16 00-0079	SF	1/2" Plywood For Temporary Floor Protection	1.54
01 56 16 00-0080	SF	3/4" Plywood For Temporary Floor Protection	1.89
01 56 16 00-0081	LF	38" Wide, 46 Mil Fiberboard, Ram Board® For Temporary Floor Protection	0.86
01 56 16 00-0082	LF	36" Wide, 9 Mil, Regular Weight Red Rosin Paper, For Temporary Floor Protection	0.26
01 56 16 00-0083	CSF	3 Mil, Temporary Self-adhesive Carpet Protection Film	16.65
01 56 16 00-0084	SF	Burlap For Temporary Floor Protection.....	0.58
01 56 16 00-0085		Sticky Mats (01 56 16)	
		Note: Includes removal after use.	
01 56 16 00-0086	EA	18" x 36", 30 Layer Sticky Mat	21.76
		For 60 Layers Instead Of 30, Add	13.69
01 56 16 00-0087	EA	18" x 46", 30 Layer Sticky Mat	24.80
		For 60 Layers Instead Of 30, Add	15.97
01 56 16 00-0088	EA	24" x 36", 30 Layer Sticky Mat	24.80
		For 60 Layers Instead Of 30, Add	15.97
01 56 16 00-0089	EA	25" x 45", 30 Layer Sticky Mat	32.40
		For 60 Layers Instead Of 30, Add	21.67
01 56 16 00-0090	EA	36" x 36", 30 Layer Sticky Mat	35.44
		For 60 Layers Instead Of 30, Add	23.95
01 56 16 00-0091	EA	36" x 46", 30 Layer Sticky Mat	38.48
		For 60 Layers Instead Of 30, Add	26.23
01 56 16 00-0092	EA	36" x 60", 30 Layer Sticky Mat	76.50
		For 60 Layers Instead Of 30, Add	54.74
01 56 16 00-0093	EA	36" x 72", 30 Layer Sticky Mat	91.10
01 56 26		Temporary Fencing (01 56)	
01 56 26 00-0001		Temporary Fencing (01 56 26)	
		Note: Includes set-up and removal after use. Excludes auguring/drilling for posts.	
01 56 26 00-0002		Temporary Chain Link Fence (01 56 26 00-0001)	
		Note: Includes set-up and removal. Excludes auguring/drilling for posts.	
01 56 26 00-0003		Temporary Chain Link Fence, Up To 6 Months (01 56 26 00-0002)	
01 56 26 00-0004	LF	Temporary 4' High Chain Link Fence And Posts, Up To 6 Months	2.45
		For >100 To 250, Deduct	-0.12
		For >250 To 500, Deduct	-0.25
		For >500, Deduct	-0.37
		For Shade Cloth, Add	1.60
01 56 26 00-0005	LF	Temporary 6' High Chain Link Fence And Posts, Up To 6 Months	2.77
		For >100 To 250, Deduct	-0.14
		For >250 To 500, Deduct	-0.28
		For >500, Deduct	-0.42
		For Shade Cloth, Add	2.55
01 56 26 00-0006	LF	Temporary 8' High Chain Link Fence And Posts, Up To 6 Months	4.68
		For >100 To 250, Deduct	-0.23
		For >250 To 500, Deduct	-0.47
		For >500, Deduct	-0.70
		For Shade Cloth, Add	3.60
01 56 26 00-0007	LF	Temporary 10' High Chain Link Fence And Posts, Up To 6 Months	13.90
		For >100 To 250, Deduct	-0.70
		For >250 To 500, Deduct	-1.39
		For >500, Deduct	-2.09
		For Shade Cloth, Add	4.75
01 56 26 00-0008		Temporary Chain Link Fence, >6 To 12 Months (01 56 26 00-0002)	
01 56 26 00-0009	LF	Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months.....	2.70
		For >100 To 250, Deduct	-0.14
		For >250 To 500, Deduct	-0.27
		For >500, Deduct	-0.41
		For Shade Cloth, Add	1.60
01 56 26 00-0010	LF	Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months.....	3.04
		For >100 To 250, Deduct	-0.15
		For >250 To 500, Deduct	-0.30
		For >500, Deduct	-0.46
		For Shade Cloth, Add	2.55
01 56 26 00-0011	LF	Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months.....	5.14
		For >100 To 250, Deduct	-0.26
		For >250 To 500, Deduct	-0.51
		For >500, Deduct	-0.77
		For Shade Cloth, Add	3.60



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0012 LF Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months	15.28	
<i>For >100 To 250, Deduct</i>	-0.76	
<i>For >250 To 500, Deduct</i>	-1.53	
<i>For >500, Deduct</i>	-2.29	
<i>For Shade Cloth, Add</i>	4.75	
01 56 26 00-0013 Temporary Chain Link Fence, >12 To 18 Months (01 56 26 00-0002)		
01 56 26 00-0014 LF Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months	2.98	
<i>For >100 To 250, Deduct</i>	-0.15	
<i>For >250 To 500, Deduct</i>	-0.30	
<i>For >500, Deduct</i>	-0.45	
<i>For Shade Cloth, Add</i>	1.60	
01 56 26 00-0015 LF Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months	3.35	
<i>For >100 To 250, Deduct</i>	-0.17	
<i>For >250 To 500, Deduct</i>	-0.34	
<i>For >500, Deduct</i>	-0.50	
<i>For Shade Cloth, Add</i>	2.55	
01 56 26 00-0016 LF Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months	5.66	
<i>For >100 To 250, Deduct</i>	-0.28	
<i>For >250 To 500, Deduct</i>	-0.57	
<i>For >500, Deduct</i>	-0.85	
<i>For Shade Cloth, Add</i>	3.60	
01 56 26 00-0017 LF Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months	16.81	
<i>For >100 To 250, Deduct</i>	-0.84	
<i>For >250 To 500, Deduct</i>	-1.68	
<i>For >500, Deduct</i>	-2.52	
<i>For Shade Cloth, Add</i>	4.75	
01 56 26 00-0018 Temporary Chain Link Fence, >18 Months (01 56 26 00-0002)		
01 56 26 00-0019 LF Temporary 4' High Chain Link Fence And Posts, >18 Months.....	3.27	
<i>For >100 To 250, Deduct</i>	-0.16	
<i>For >250 To 500, Deduct</i>	-0.33	
<i>For >500, Deduct</i>	-0.49	
<i>For Shade Cloth, Add</i>	1.60	
01 56 26 00-0020 LF Temporary 6' High Chain Link Fence And Posts, >18 Months.....	3.67	
<i>For >100 To 250, Deduct</i>	-0.18	
<i>For >250 To 500, Deduct</i>	-0.37	
<i>For >500, Deduct</i>	-0.55	
<i>For Shade Cloth, Add</i>	2.55	
01 56 26 00-0021 LF Temporary 8' High Chain Link Fence And Posts, >18 Months.....	6.22	
<i>For >100 To 250, Deduct</i>	-0.31	
<i>For >250 To 500, Deduct</i>	-0.62	
<i>For >500, Deduct</i>	-0.93	
<i>For Shade Cloth, Add</i>	3.60	
01 56 26 00-0022 LF Temporary 10' High Chain Link Fence And Posts, >18 Months.....	18.49	
<i>For >100 To 250, Deduct</i>	-0.92	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.77	
<i>For Shade Cloth, Add</i>	4.75	
01 56 26 00-0023 Temporary Chain Link Fence Gates (01 56 26 00-0001)		
Note: Includes set-up and removal. Excludes auguring/drilling for posts.		
01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0023)		
01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0026 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	156.26	
<i>For Shade Cloth, Add</i>	11.67	
01 56 26 00-0027 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	243.07	
<i>For Shade Cloth, Add</i>	29.17	
01 56 26 00-0028 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	277.79	
<i>For Shade Cloth, Add</i>	35.00	
01 56 26 00-0029 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	312.51	
<i>For Shade Cloth, Add</i>	43.75	
01 56 26 00-0030 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	381.95	
<i>For Shade Cloth, Add</i>	58.34	
01 56 26 00-0031 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	416.69	
<i>For Shade Cloth, Add</i>	70.00	
01 56 26 00-0032 6' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0033 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	163.36	
<i>For Shade Cloth, Add</i>	18.59	
01 56 26 00-0034 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	254.11	
<i>For Shade Cloth, Add</i>	46.49	
01 56 26 00-0035 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	290.41	
<i>For Shade Cloth, Add</i>	55.78	
01 56 26 00-0036 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	326.73	
<i>For Shade Cloth, Add</i>	69.73	
01 56 26 00-0037 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	399.32	
<i>For Shade Cloth, Add</i>	92.97	

01	General Requirements
01 50	Temporary Facilities And Controls
01 56	Temporary Barriers And Enclosures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0038	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	435.62	
			<i>For Shade Cloth, Add</i>	111.57	
01 56 26 00-0039			8' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0040	EA		4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	179.70	
			<i>For Shade Cloth, Add</i>	26.25	
01 56 26 00-0041	EA		10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	279.53	
			<i>For Shade Cloth, Add</i>	65.63	
01 56 26 00-0042	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	319.46	
			<i>For Shade Cloth, Add</i>	78.75	
01 56 26 00-0043	EA		15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	359.39	
			<i>For Shade Cloth, Add</i>	98.44	
01 56 26 00-0044	EA		20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	439.26	
			<i>For Shade Cloth, Add</i>	131.26	
01 56 26 00-0045	EA		24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	479.19	
			<i>For Shade Cloth, Add</i>	157.51	
01 56 26 00-0046			10' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0047	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	224.62	
			<i>For Shade Cloth, Add</i>	34.64	
01 56 26 00-0048	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	349.41	
			<i>For Shade Cloth, Add</i>	86.59	
01 56 26 00-0049	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	399.32	
			<i>For Shade Cloth, Add</i>	103.91	
01 56 26 00-0050	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	449.24	
			<i>For Shade Cloth, Add</i>	129.89	
01 56 26 00-0051	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	549.07	
			<i>For Shade Cloth, Add</i>	173.18	
01 56 26 00-0052	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	598.99	
			<i>For Shade Cloth, Add</i>	207.82	
01 56 26 00-0053			Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0023)		
01 56 26 00-0054			4' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0055	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	164.07	
			<i>For Shade Cloth, Add</i>	11.67	
01 56 26 00-0056	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	255.22	
			<i>For Shade Cloth, Add</i>	29.17	
01 56 26 00-0057	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	291.68	
			<i>For Shade Cloth, Add</i>	35.00	
01 56 26 00-0058	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	328.14	
			<i>For Shade Cloth, Add</i>	43.75	
01 56 26 00-0059	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	401.05	
			<i>For Shade Cloth, Add</i>	58.34	
01 56 26 00-0060	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	437.53	
			<i>For Shade Cloth, Add</i>	70.00	
01 56 26 00-0061			6' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0062	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	171.53	
			<i>For Shade Cloth, Add</i>	18.59	
01 56 26 00-0063	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	266.82	
			<i>For Shade Cloth, Add</i>	46.49	
01 56 26 00-0064	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	304.93	
			<i>For Shade Cloth, Add</i>	55.78	
01 56 26 00-0065	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	343.06	
			<i>For Shade Cloth, Add</i>	69.73	
01 56 26 00-0066	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	419.29	
			<i>For Shade Cloth, Add</i>	92.97	
01 56 26 00-0067	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	457.40	
			<i>For Shade Cloth, Add</i>	111.57	
01 56 26 00-0068			8' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0069	EA		4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	188.68	
			<i>For Shade Cloth, Add</i>	26.25	
01 56 26 00-0070	EA		10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	293.50	
			<i>For Shade Cloth, Add</i>	65.63	
01 56 26 00-0071	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	335.43	
			<i>For Shade Cloth, Add</i>	78.75	
01 56 26 00-0072	EA		15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	377.36	
			<i>For Shade Cloth, Add</i>	98.44	
01 56 26 00-0073	EA		20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	461.22	
			<i>For Shade Cloth, Add</i>	131.26	
01 56 26 00-0074	EA		24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	503.15	
			<i>For Shade Cloth, Add</i>	157.51	
01 56 26 00-0075			10' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0076 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	235.85 34.64	
01 56 26 00-0077 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	366.88 86.59	
01 56 26 00-0078 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	419.29 103.91	
01 56 26 00-0079 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	471.70 129.89	
01 56 26 00-0080 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	576.52 173.18	
01 56 26 00-0081 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	628.94 207.82	
01 56 26 00-0082 Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0023)		
01 56 26 00-0083 4' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0084 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	172.27 11.67	
01 56 26 00-0085 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	267.98 29.17	
01 56 26 00-0086 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	306.26 35.00	
01 56 26 00-0087 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	344.54 43.75	
01 56 26 00-0088 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	421.10 58.34	
01 56 26 00-0089 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	459.41 70.00	
01 56 26 00-0090 6' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0091 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	180.11 18.59	
01 56 26 00-0092 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	280.16 46.49	
01 56 26 00-0093 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	320.18 55.78	
01 56 26 00-0094 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	360.22 69.73	
01 56 26 00-0095 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	440.25 92.97	
01 56 26 00-0096 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	480.27 111.57	
01 56 26 00-0097 8' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0098 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	198.11 26.25	
01 56 26 00-0099 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	308.18 65.63	
01 56 26 00-0100 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	352.20 78.75	
01 56 26 00-0101 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	396.23 98.44	
01 56 26 00-0102 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	484.28 131.26	
01 56 26 00-0103 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	528.31 157.51	
01 56 26 00-0104 10' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0105 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	247.64 34.64	
01 56 26 00-0106 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	385.22 86.59	
01 56 26 00-0107 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	440.25 103.91	
01 56 26 00-0108 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	495.29 129.89	
01 56 26 00-0109 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	605.35 173.18	
01 56 26 00-0110 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	660.38 207.82	
01 56 26 00-0111 Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0023)		
01 56 26 00-0112 4' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0113 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	180.48 11.67	
01 56 26 00-0114 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	280.74 29.17	

01	General Requirements
01 50	Temporary Facilities And Controls
01 56	Temporary Barriers And Enclosures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0115	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	320.85	
			<i>For Shade Cloth, Add</i>	35.00	
01 56 26 00-0116	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	360.95	
			<i>For Shade Cloth, Add</i>	43.75	
01 56 26 00-0117	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	441.16	
			<i>For Shade Cloth, Add</i>	58.34	
01 56 26 00-0118	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	481.28	
			<i>For Shade Cloth, Add</i>	70.00	
01 56 26 00-0119			6' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0120	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	188.68	
			<i>For Shade Cloth, Add</i>	18.59	
01 56 26 00-0121	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	293.50	
			<i>For Shade Cloth, Add</i>	46.49	
01 56 26 00-0122	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	335.42	
			<i>For Shade Cloth, Add</i>	55.78	
01 56 26 00-0123	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	377.37	
			<i>For Shade Cloth, Add</i>	69.73	
01 56 26 00-0124	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	461.22	
			<i>For Shade Cloth, Add</i>	92.97	
01 56 26 00-0125	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	503.14	
			<i>For Shade Cloth, Add</i>	111.57	
01 56 26 00-0126			8' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0127	EA		4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	207.55	
			<i>For Shade Cloth, Add</i>	26.25	
01 56 26 00-0128	EA		10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	322.85	
			<i>For Shade Cloth, Add</i>	65.63	
01 56 26 00-0129	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	368.98	
			<i>For Shade Cloth, Add</i>	78.75	
01 56 26 00-0130	EA		15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	415.10	
			<i>For Shade Cloth, Add</i>	98.44	
01 56 26 00-0131	EA		20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	507.34	
			<i>For Shade Cloth, Add</i>	131.26	
01 56 26 00-0132	EA		24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	553.46	
			<i>For Shade Cloth, Add</i>	157.51	
01 56 26 00-0133			10' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0134	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	259.44	
			<i>For Shade Cloth, Add</i>	34.64	
01 56 26 00-0135	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	403.57	
			<i>For Shade Cloth, Add</i>	86.59	
01 56 26 00-0136	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	461.22	
			<i>For Shade Cloth, Add</i>	103.91	
01 56 26 00-0137	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	518.87	
			<i>For Shade Cloth, Add</i>	129.89	
01 56 26 00-0138	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	634.18	
			<i>For Shade Cloth, Add</i>	173.18	
01 56 26 00-0139	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	691.83	
			<i>For Shade Cloth, Add</i>	207.82	
01 56 26 00-0140			Temporary Chain Link Fence Panels (Portable) <small>(01 56 26 00-0001)</small>		
			Note: Includes set-up and removal. Excludes sandbags.		
01 56 26 00-0141			Temporary Chain Link Fence Panels (Portable), Up To 6 Months <small>(01 56 26 00-0140)</small>		
01 56 26 00-0142	LF		Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months.....	2.94	
			<i>For >100 To 250, Deduct</i>	-0.15	
			<i>For >250 To 500, Deduct</i>	-0.29	
			<i>For >500, Deduct</i>	-0.44	
			<i>For Shade Cloth, Add</i>	1.60	
01 56 26 00-0143	LF		Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months.....	3.29	
			<i>For >100 To 250, Deduct</i>	-0.16	
			<i>For >250 To 500, Deduct</i>	-0.33	
			<i>For >500, Deduct</i>	-0.49	
			<i>For Shade Cloth, Add</i>	2.55	
01 56 26 00-0144	LF		Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months.....	5.30	
			<i>For >100 To 250, Deduct</i>	-0.27	
			<i>For >250 To 500, Deduct</i>	-0.53	
			<i>For >500, Deduct</i>	-0.80	
			<i>For Shade Cloth, Add</i>	3.60	
01 56 26 00-0145			Temporary Chain Link Fence Panels (Portable), >6 To 12 Months <small>(01 56 26 00-0140)</small>		
01 56 26 00-0146	LF		Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months	3.19	
			<i>For >100 To 250, Deduct</i>	-0.16	
			<i>For >250 To 500, Deduct</i>	-0.32	
			<i>For >500, Deduct</i>	-0.48	
			<i>For Shade Cloth, Add</i>	1.60	



General Requirements	01	10
Temporary Facilities And Controls	01 50	
Temporary Barriers And Enclosures	01 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0147 LF Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	3.56	
<i>For >100 To 250, Deduct</i>	-0.18	
<i>For >250 To 500, Deduct</i>	-0.36	
<i>For >500, Deduct</i>	-0.53	
<i>For Shade Cloth, Add</i>	2.55	
01 56 26 00-0148 LF Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	5.77	
<i>For >100 To 250, Deduct</i>	-0.29	
<i>For >250 To 500, Deduct</i>	-0.58	
<i>For >500, Deduct</i>	-0.87	
<i>For Shade Cloth, Add</i>	3.60	
01 56 26 00-0149 Temporary Chain Link Fence Panels (Portable), >12 To 18 Months (01 56 26 00-0140)		
01 56 26 00-0150 LF Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	3.44	
<i>For >100 To 250, Deduct</i>	-0.17	
<i>For >250 To 500, Deduct</i>	-0.34	
<i>For >500, Deduct</i>	-0.52	
<i>For Shade Cloth, Add</i>	1.60	
01 56 26 00-0151 LF Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	3.88	
<i>For >100 To 250, Deduct</i>	-0.19	
<i>For >250 To 500, Deduct</i>	-0.39	
<i>For >500, Deduct</i>	-0.58	
<i>For Shade Cloth, Add</i>	2.55	
01 56 26 00-0152 LF Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	6.29	
<i>For >100 To 250, Deduct</i>	-0.31	
<i>For >250 To 500, Deduct</i>	-0.63	
<i>For >500, Deduct</i>	-0.94	
<i>For Shade Cloth, Add</i>	3.60	
01 56 26 00-0153 Temporary Chain Link Fence Panels (Portable), >18 Months (01 56 26 00-0140)		
01 56 26 00-0154 LF Temporary 4' High Chain Link Fence Panels (Portable), >18 Months.....	3.75	
<i>For >100 To 250, Deduct</i>	-0.19	
<i>For >250 To 500, Deduct</i>	-0.38	
<i>For >500, Deduct</i>	-0.56	
<i>For Shade Cloth, Add</i>	1.60	
01 56 26 00-0155 LF Temporary 6' High Chain Link Fence Panels (Portable), >18 Months.....	4.19	
<i>For >100 To 250, Deduct</i>	-0.21	
<i>For >250 To 500, Deduct</i>	-0.42	
<i>For >500, Deduct</i>	-0.63	
<i>For Shade Cloth, Add</i>	2.55	
01 56 26 00-0156 LF Temporary 8' High Chain Link Fence Panels (Portable), >18 Months.....	6.83	
<i>For >100 To 250, Deduct</i>	-0.34	
<i>For >250 To 500, Deduct</i>	-0.68	
<i>For >500, Deduct</i>	-1.02	
<i>For Shade Cloth, Add</i>	3.60	
01 56 26 00-0157 Temporary Chain Link Fence Panels (Portable) Sandbags (01 56 26 00-0140)		
01 56 26 00-0158 BAG Temporary Chain Link Fence Panels (Portable) Sandbag.....	5.40	
Note: Includes placement and removal.		
01 56 26 00-0159 Relocate Chain Link Fence, Gates And Panels (01 56 26 00-0001)		
Note: Excludes auguring/drilling for posts.		
01 56 26 00-0160 Relocate Temporary Chain Link Fence On Site (01 56 26 00-0159)		
01 56 26 00-0161 LF Relocate Temporary 4' High Chain Link Fence And Posts.....	2.87	
01 56 26 00-0162 LF Relocate Temporary 6' High Chain Link Fence And Posts.....	4.31	
01 56 26 00-0163 LF Relocate Temporary 8' High Chain Link Fence And Posts.....	6.22	
01 56 26 00-0164 LF Relocate Temporary 10' High Chain Link Fence And Posts.....	7.66	
01 56 26 00-0165 Relocate Temporary Chain Link Fence Panels On Site (01 56 26 00-0159)		
01 56 26 00-0166 LF Relocate Temporary 4' High Chain Link Fence Panel, Self Standing.....	0.70	
01 56 26 00-0167 LF Relocate Temporary 6' High Chain Link Fence Panel, Self Standing.....	0.84	
01 56 26 00-0168 LF Relocate Temporary 8' High Chain Link Fence Panel, Self Standing.....	0.94	
01 56 26 00-0169 Relocate Temporary Chain Link Gates On Site (01 56 26 00-0159)		
01 56 26 00-0170 EA Relocate Temporary 4' High Chain Link Vehicle Gate And Posts.....	91.15	
01 56 26 00-0171 EA Relocate Temporary 6' High Chain Link Vehicle Gate And Posts.....	105.18	
01 56 26 00-0172 EA Relocate Temporary 8' High Chain Link Vehicle Gate And Posts.....	129.73	
01 56 26 00-0173 EA Relocate Temporary 10' High Chain Link Vehicle Gate And Posts.....	140.24	
01 56 26 00-0174 Temporary Safety Fence (01 56 26)		
Note: Includes removal after use.		
01 56 26 00-0175 LF 48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence.....	2.52	
01 56 29 Temporary Protective Walkways (01 56)		

01	01	General Requirements
	01 50	Temporary Facilities And Controls
	01 56	Temporary Barriers And Enclosures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 56 29 00-0001	Temporary Sidewalk Bridge Protection <small>(01 56 29)</small> Note: Includes removal after use.	
01 56 29 00-0002	Installation of Sidewalk Bridge <small>(01 56 29 00-0001)</small>	
01 56 29 00-0003	LF Installation of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.	140.42
	<i>For 3 Post System, Add</i>	6.00
	<i>For Each Additional Foot Over 8' Wide, Add</i>	3.00
	<i>For Each Additional Foot Over 8' High, Add</i>	2.00
01 56 29 00-0004	LF Installation of Netting for Sidewalk Bridge.....	3.58
01 56 29 00-0005	Monthly Rental of Sidewalk Bridge <small>(01 56 29 00-0001)</small>	
01 56 29 00-0006	LF Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance.	8.30
	<i>For 3 Post System, Add</i>	1.25
01 56 29 00-0007	LF Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance.	9.35
	<i>For 3 Post System, Add</i>	1.40
01 56 29 00-0008	LF Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance.	10.39
	<i>For 3 Post System, Add</i>	1.56
01 56 29 00-0009	LF Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance.	10.39
	<i>For 3 Post System, Add</i>	1.56
01 56 29 00-0010	LF Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance.	11.42
	<i>For 3 Post System, Add</i>	1.71
01 56 29 00-0011	LF Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance.	13.51
	<i>For 3 Post System, Add</i>	2.03
01 56 29 00-0012	LF Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance.	12.48
	<i>For 3 Post System, Add</i>	1.87
01 56 29 00-0013	LF Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance.	14.55
	<i>For 3 Post System, Add</i>	2.18
01 56 29 00-0014	LF Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance.	15.57
	<i>For 3 Post System, Add</i>	2.34
01 56 29 00-0015	LF Monthly Rental of Netting for Sidewalk Bridge.....	1.56
01 56 29 00-0016	Removal of Sidewalk Bridge <small>(01 56 29 00-0001)</small>	
01 56 29 00-0017	LF Removal of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.	29.23
	<i>For 3 Post System, Add</i>	2.50
	<i>For Each Additional Foot Over 8' Wide, Add</i>	1.25
	<i>For Each Additional Foot Over 8' High, Add</i>	0.75
01 56 29 00-0018	LF Removal of Netting for Sidewalk Bridge.....	1.79
01 56 29 00-0019	Safety Nets <small>(01 56 29)</small> Note: Includes removal after use.	
01 56 29 00-0020	SF Small Mesh Debris Netting Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.	1.44

01 56 33 Temporary Security Barriers (01 56)

01 56 33 00-0001	Board-up Opening With Plywood <small>(01 56 33)</small> Note: For use where directed by owner for boarding up door and window openings.	
01 56 33 00-0002	OPN Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day.....	10.52
01 56 33 00-0003	SF Board-up Opening With 5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners.....	6.33
01 56 33 00-0004	SF Board-up Opening With 3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners.....	7.35
01 56 33 00-0005	Temporary Pedestrian Barricade <small>(01 56 33)</small> Note: Portable, interlocking galvanized steel fence with pivoting legs.	
01 56 33 00-0006	DAY 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	7.74
01 56 33 00-0007	WK 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	18.80
01 56 33 00-0008	MO 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	56.40



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 56 39 Temporary Tree And Plant Protection (01 56)

01 56 39 00-0001	EA	Temporary Tree Guards <small>(01 56 39)</small>	Note: Includes digging holes and removal after use.		
01 56 39 00-0002	EA	Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail		140.00	
01 56 39 00-0003	EA	4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail		162.65	
01 56 39 00-0004	EA	6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail		176.05	

01 57 Temporary Controls (01 50)

01 57 13 Temporary Erosion And Sediment Control (01 57)

See CSI section 31 25 00 00-0000 for temporary erosion and sediment control.

01 57 23 Temporary Storm Water Pollution Control (01 57)

See CSI section 31 25 00 00-0000 for temporary storm water pollution control.

01 57 23 00-0001	EA	Temporary Drain Guard <small>(01 57 23)</small>	Note: Includes removal after use.		
01 57 23 00-0002	EA	36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227)		68.35	
01 57 23 00-0003	EA	36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217)	Note: Up to 0.87 gallons oil, up to 40 lbs sediment.	67.21	
01 57 23 00-0004	EA	36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219)	Note: Up to 1.38 gallons oil, up to 40 lbs sediment.	83.23	
01 57 23 00-0005	EA	60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356)	Note: Up to 1.55 gallons oil, up to 40 lbs sediment.	82.08	
01 57 23 00-0006	EA	60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358)	Note: Up to 2.06 gallons oil, up to 40 lbs sediment.	99.26	

01 58 Project Identification (01 50)

Note: Includes removal after use.

01 58 13 Temporary Project Signage (01 58)

01 58 13 00-0001	EA	Project Sign <small>(01 58 13)</small>			
01 58 13 00-0002	EA	MDO Plywood Signs <small>(01 58 13 00-0001)</small>	Note: Excludes posts.		
01 58 13 00-0003	EA	ReflectORIZED, MDO Plywood Signs <small>(01 58 13 00-0002)</small>			
01 58 13 00-0004	EA	Engineer Grade, ReflectORIZED, MDO Plywood Signs <small>(01 58 13 00-0003)</small>			
01 58 13 00-0005	EA	Up To 8 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign	For High-Intensity Grade, Add	107.10	19.29
			For Diamond Grade, Add	23.99	
				46.26	
01 58 13 00-0006	EA	>8 To 16 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign	For High-Intensity Grade, Add	177.39	20.16
			For Diamond Grade, Add	47.97	
				92.52	
01 58 13 00-0007	EA	>16 To 24 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign	For High-Intensity Grade, Add	247.67	21.04
			For Diamond Grade, Add	71.96	
				138.77	
01 58 13 00-0008	EA	>24 To 32 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign	For High-Intensity Grade, Add	317.95	21.92
			For Diamond Grade, Add	95.94	
				185.03	
01 58 13 00-0009	SF	>32 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign	For High-Intensity Grade, Add	9.97	0.70
			For Diamond Grade, Add	3.00	
				5.78	
01 58 13 00-0010	EA	Non-ReflectORIZED, MDO Plywood Signs <small>(01 58 13 00-0002)</small>			
01 58 13 00-0011	EA	One Or Two Color Design, Non-ReflectORIZED, MDO Plywood Signs <small>(01 58 13 00-0010)</small>			
01 58 13 00-0012	EA	Up To 8 SF, One Or Two Color Design, Non ReflectORIZED, MDO Plywood Sign		131.55	19.29
01 58 13 00-0013	EA	>8 To 16 SF, One Or Two Color Design, Non ReflectORIZED, MDO Plywood Sign		155.50	20.16
01 58 13 00-0014	EA	>16 To 24 SF, One Or Two Color Design, Non ReflectORIZED, MDO Plywood Sign		192.64	21.04
01 58 13 00-0015	EA	>24 To 32 SF, One Or Two Color Design, Non ReflectORIZED, MDO Plywood Sign		227.73	21.92
01 58 13 00-0016	SF	>32 SF, One Or Two Color Design, Non ReflectORIZED, MDO Plywood Sign		7.15	0.70
01 58 13 00-0017	EA	Full Color Design, Non-ReflectORIZED, MDO Plywood Signs <small>(01 58 13 00-0010)</small>			
01 58 13 00-0018	EA	Up To 8 SF, Full Color Design, Non ReflectORIZED, MDO Plywood Sign		134.16	19.29
01 58 13 00-0019	EA	>8 To 16 SF, Full Color Design, Non ReflectORIZED, MDO Plywood Sign		169.61	20.16
01 58 13 00-0020	EA	>16 To 24 SF, Full Color Design, Non ReflectORIZED, MDO Plywood Sign		206.98	21.04
01 58 13 00-0021	EA	>24 To 32 SF, Full Color Design, Non ReflectORIZED, MDO Plywood Sign		240.02	21.92
01 58 13 00-0022	SF	>32 SF, Full Color Design, Non ReflectORIZED, MDO Plywood Sign		7.53	0.70
01 58 13 00-0023	EA	Fabricate And Install New Posts <small>(01 58 13 00-0001)</small>	Note: Includes excavation, backfill and compaction. Excludes core drilling.		
01 58 13 00-0024	LF	Galvanized Metal Channel Sign Posts		12.41	

01	01	General Requirements
	01 50	Temporary Facilities And Controls
	01 58	Project Identification



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 58 13 00-0025 LF 4" x 4" Pressure Treated Wood Sign Posts	10.10	
01 58 13 00-0026 LF 4" x 6" Pressure Treated Wood Sign Posts	11.70	
01 58 13 00-0027 Owner Supplied Signs (01 58 13 00-0001)		
01 58 13 00-0028 EA Installation And Removal Of Owner Supplied Project Sign	70.13	

01 60 Product Requirements (01)

01 66 Product Storage And Handling Requirements (01 60)

01 66 19 Product Handling Requirements (01 66)

Note: Not for use in conjunction with other tasks when the distance is less than 2 stories with attic (2-1/2 stories) or less than 125'.

01 66 19 00-0001 Transfer Delivered Materials Between Floors (01 66 19)

Note: For moving delivered, owner supplied or existing materials.

01 66 19 00-0002 CY Transfer Delivered Material Between Floors Via Stairs, Per Floor	13.48
01 66 19 00-0003 CY Transfer Delivered Material Between Floors Via Elevator, Per Trip	8.77

Note: Quantity equals volume of materials multiplied by number of floors traveled.
Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.

01 66 19 00-0004 Transfer Delivered Materials Distances Greater Than 125' (01 66 19)

Note: For moving delivered, owner supplied or existing materials.

01 66 19 00-0005 CY Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125'	5.48
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01 66 19 00-0006 Transfer Demolition Debris Between Floors (01 66 19)

Note: Only for use with demolition tasks.

01 66 19 00-0007 CY Transfer Demolition Debris Between Floors Via Stairs, Per Floor	17.36
01 66 19 00-0008 CY Transfer Demolition Debris Between Floors Via Elevator, Per Trip	10.40

Note: Quantity equals material volume times bulk factor times number of floors traveled.
Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.

01 66 19 00-0009 Transfer Demolition Debris Distances Greater Than 125' (01 66 19)

01 66 19 00-0010 CY Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125'	5.48
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01 66 19 00-0011 Moving Furniture And Furnishings (01 66 19)

Note: To be used when contractor is required to move furniture and furnishings occupying 55% or more of the total floor space.

01 66 19 00-0012 SF Remove, Transport, Return And Reinstall Office Furniture And Furnishings	0.87
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Note: Includes desks, tables, file cabinets, chairs, storage boxes, bookshelves, office equipment, computers, and other furniture and furnishings. Quantity equals total floor space.

01 70 Execution And Closeout Requirements (01)

01 71 Examination And Preparation (01 70)

01 71 13 Mobilization (01 71)

01 71 13 00-0001 Equipment Delivery, Pickup, Mobilization And Demobilization (01 71 13)

Note: Excludes flagman for traffic control where necessary. See CSI section 01 22 23 00-0841 for cranes.

01 71 13 00-0002 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck	244.70
01 71 13 00-0003 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed	747.75

Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom manlifts with up to 40' boom lengths, etc.
Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom manlifts with >40' boom lengths, etc.

01 71 13 00-0004 Crane Delivery, Pickup, Mobilization And Demobilization (01 71 13)

Note: Includes delivery of equipment, off loading on site and rigging. Return includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.

01 71 13 00-0005 EA Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane	391.52
Note: Includes delivery and pickup.	
For >30 To 60 Miles Radius, Add	97.88
For >60 To 100 Miles Radius, Add	156.61
01 71 13 00-0006 EA 20 To 30 Ton Lift Move On/Off Cost, Hydraulic Crane	636.21
Note: Includes delivery and pickup.	
For >30 To 60 Miles Radius, Add	159.05
For >60 To 100 Miles Radius, Add	254.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 13 00-0007 EA 40 To 50 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	880.91 220.23 352.36	
01 71 13 00-0008 EA 70 To 100 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	1,419.24 354.81 567.70	
01 71 13 00-0009 EA 75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	1,125.61 281.40 450.24	
01 71 13 00-0010 EA 100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	1,810.76 452.69 724.30	
01 71 13 00-0011 EA 125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	2,280.58 570.15 912.23	
01 71 13 00-0012 EA 150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	2,828.71 707.18 1,131.48	
01 71 13 00-0013 EA 250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	4,110.92 1,027.73 1,644.37	
01 71 13 00-0014 EA 300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	5,872.74 1,468.19 2,349.10	
01 71 13 00-0015 EA 500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	8,075.03 2,018.76 3,230.01	

01 71 23 Field Engineering (01 71)

01 71 23 16 Construction Surveying (01 71 23)

01 71 23 16-0001 Conventional Topographic Survey (01 71 23 16)

Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.

01 71 23 16-0002 ACR Survey Clear Area With Few To No Obstacles	900.64
01 71 23 16-0003 ACR Survey Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings)	2,605.29
01 71 23 16-0004 ACR Survey Clear Area With Few Structures, And/Or Wooded (5-25% Buildings)	3,734.00
01 71 23 16-0005 ACR Survey Developed Areas With Several Structures (25-65% Buildings)	5,672.66
01 71 23 16-0006 ACR Survey Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings)	7,123.80

01 71 23 16-0007 Property Lines Survey (01 71 23 16)

Note: Not to be added to tasks in the "Conventional Topographic Survey" section.

01 71 23 16-0008 LF Survey Property Lines On Cleared Land	2.17
01 71 23 16-0009 LF Survey Property Lines On Slightly Wooded Land	2.51
01 71 23 16-0010 LF Survey Property Lines On Wooded Land	2.95

01 71 23 16-0011 Survey Monument (01 71 23 16)

01 71 23 16-0012 EA 3' Precast Survey Monument	135.98
For Owner Furnished Monument, Deduct	-61.37
01 71 23 16-0013 EA Precast Survey Monument Box With Cast Iron Frame And Cover	189.09
01 71 23 16-0014 EA Riser Ring For Survey Monument	94.64
01 71 23 16-0015 EA Adjust Survey Monument Cover To Grade	61.37

01 71 23 16-0016 Facade Surveying (01 71 23 16)

01 71 23 16-0017 LF Facade Survey And Reports (LF Of Facade x Number Of Floors)	5.98
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01 71 23 16-0018 Utility Survey (01 71 23 16)

Note: This survey is only for the location of underground utilities.

01 71 23 16-0019 ACR Survey Clear Area For Underground Utilities	4,935.54
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01 71 36 Non-Destructive Concrete Examination (01 71)

01 71 36 00-0001 Electromagnetic Survey (01 71 36)

Note: To locate voids, prior to moving heavy machinery to an area of concern, to locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt, to locate underground utilities, underground storage tanks, etc. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR).

01	01	General Requirements
	01 70	Execution And Closeout Requirements
	01 71	Examination And Preparation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 71 36 00-0002	Electromagnetic (SIR/GPR) Survey <small>(01 71 36 00-0001)</small>	
01 71 36 00-0003	EA Up To 1 Hour On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	622.74
01 71 36 00-0004	EA >1 To 4 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	934.11
01 71 36 00-0005	EA >4 To 8 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,868.22

01 71 36 00-0006	Reports And Mapping For Electromagnetic (SIR/GPR) Surveys <small>(01 71 36 00-0001)</small>	
01 71 36 00-0007	EA Standard Report For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt..... Note: Includes a detailed description of the scope of work, inspection methods, and equipment used. Also includes visuals such as site locations, images of data, and site photos.	207.58
01 71 36 00-0008	EA GPS Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt..... Note: Includes GPS coordinates of located items and reference items.	415.16
01 71 36 00-0009	EA CAD Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt..... Note: Includes additions to the owner provided CAD drawing.	934.11

01 74 Cleaning And Waste Management (01 70)

01 74 13 Progress Cleaning (01 74)
 Note: For use on existing areas other than where actual work is to be performed where ordered by the owner. Daily cleanup and final cleanup is included in the contractor's adjustment factor.

01 74 13 00-0001	General <small>(01 74 13)</small>	
01 74 13 00-0002	CSF Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent	17.55
01 74 13 00-0003	CY Collect Existing Debris And Load Into Truck Or Dumpster	20.55

Note: Per CY of debris removed.

01 74 16 Site Maintenance (01 74)

01 74 16 00-0001 **Parking Lot, Roads And Pathway Maintenance** (01 74 16)
 Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Do not use these tasks in conjunction with related installation/demolition tasks in the Construction Task Catalog®.

01 74 16 00-0002	Parking Lot, Road, And Street Sweeping <small>(01 74 16 00-0001)</small>	
01 74 16 00-0003	MSF Sweep Parking Lot, With Street Sweeper	17.45
01 74 16 00-0004	MSF Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads.....	20.94

01 74 16 00-0005	Runway Sweeping <small>(01 74 16 00-0001)</small>	
01 74 16 00-0006	MSF Sweep Runway, With Street Sweep	26.18

01 74 19 Construction Waste Management And Disposal (01 74)

Note: Tasks in this section shall be used as directed by owner.

01 74 19 00-0001 **Debris Chutes** (01 74 19)
 Note: Includes hopper sections and entry sections. Used as required for buildings of all heights.

01 74 19 00-0002	Steel Temporary Debris Chutes <small>(01 74 19 00-0001)</small>	
01 74 19 00-0003	LF 18" Diameter, Steel Temporary Debris Chute.....	27.99
01 74 19 00-0004	LF 30" Diameter, Steel Temporary Debris Chute.....	41.66

01 74 19 00-0005	Plastic Temporary Debris Chutes <small>(01 74 19 00-0001)</small>	
01 74 19 00-0006	LF 24" Diameter, Plastic Temporary Debris Chute	11.06
	<i>For Steel Liner, Add</i>	2.09
01 74 19 00-0007	LF 30" Diameter, Plastic Temporary Debris Chute	12.67
	<i>For Steel Liner, Add</i>	2.40
01 74 19 00-0008	LF 36" Diameter, Plastic Temporary Debris Chute	14.27
	<i>For Steel Liner, Add</i>	2.70

01 74 19 00-0009 **Wood Temporary Debris Chutes** (01 74 19 00-0001)
 01 74 19 00-0010 LF 4' x 4', Wood Temporary Debris Chute
 20.84 |

Note: Includes fabrication and installation.

01 74 19 00-0011	Construction Dumpsters Rental <small>(01 74 19)</small>	
	Note: Includes service to delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides & pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.	
01 74 19 00-0012	EA 10 CY Dumpster (1 Ton) "Construction Debris"	494.99
	Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. <i>For Each Ton Over Indicated Amount, Add</i>	100.00



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 19 00-0013 EA 15 CY Dumpster (1.5 Ton) "Construction Debris".....	590.00	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add		
01 74 19 00-0014 EA 20 CY Dumpster (2 Ton) "Construction Debris".....	100.00	685.00
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add		
01 74 19 00-0015 EA 30 CY Dumpster (3 Ton) "Construction Debris".....	100.00	784.98
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add		
01 74 19 00-0016 EA 40 CY Dumpster (4 Ton) "Construction Debris".....	100.00	884.98
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add		
01 74 19 00-0017 EA 10 CY Low-Boy Dumpster "Concrete Or Asphalt Only".....	100.00	884.98
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.		
01 74 19 00-0018 EA 15 CY Low-Boy Dumpster Clean Recyclable.....	100.00	847.05
Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0019 EA 15 CY Low-Boy Dumpster Mixed Recyclable.....	100.00	910.26
Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0020 Concrete Washout Service (01 74 19)		
01 74 19 00-0021 MO Rampless Concrete Washout Bin.....	100.00	589.50
Note: Includes delivery.		
01 74 19 00-0022 MO Ramped Concrete Washout Bin.....	100.00	707.40
Note: Includes delivery.		
01 74 19 00-0023 EA Interim Vacuum Service, Concrete Washout Bin.....	100.00	342.66
Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.		
01 74 19 00-0024 EA Vacuum, Pickup, Swap And Dump, Concrete Washout Bin.....	100.00	742.43
Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.		
01 74 19 00-0025 Debris Processing Fee (01 74 19)		
01 74 19 00-0026 Material Recycling Fees (01 74 19 00-0025)		
Note: Does not apply with use of dumpsters. Excludes hauling.		
01 74 19 00-0027 CY Drop-Off Asphalt At Recycling Center.....	100.00	14.93
01 74 19 00-0028 CY Drop-Off Non Reinforced Concrete At Recycling Center.....	100.00	20.00
01 74 19 00-0029 CY Drop-Off Reinforced Concrete At Recycling Center.....	100.00	30.00
01 74 19 00-0030 CY Drop-Off Brick Or Block At Recycling Center.....	100.00	26.00
01 74 19 00-0031 CY Drop-Off Dirt At Recycling Center.....	100.00	29.00
01 74 19 00-0032 CY Drop-Off Dimensional Lumber At Recycling Center.....	100.00	28.00
01 74 19 00-0033 Landfill Dump Fees (01 74 19 00-0025)		
Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0051 for hauling.		
01 74 19 00-0034 CY Traditional Building Construction Materials Landfill Dump Fee.....	100.00	13.31
01 74 19 00-0035 CY Trees, Stumps And Brush, Landfill Dump Fee.....	100.00	16.02
01 74 19 00-0036 CY Rubbish Landfill Dump Fee.....	100.00	13.06
01 74 19 00-0037 CY Hazardous Materials And Rubbish (Paint Cans, Etcetera) Landfill Dump Fee.....	100.00	38.20
01 74 19 00-0038 CY Excavated Dirt Landfill Dump Fee.....	100.00	12.82
01 74 19 00-0039 CY Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee.....	100.00	27.14
01 74 19 00-0040 CY Non Reinforced Concrete And/Or Rock, 2" Minus.....	100.00	4.20
01 74 19 00-0041 CY Reinforced Concrete And/Or Rock, 2" Minus, Rebar Trimmed To 1".....	100.00	5.85
01 74 19 00-0042 CY Reinforced Concrete not trimmed, 2" Minus.....	100.00	10.40
01 74 19 00-0043 CY Mixed Asphalt And Concrete, Sized And Trimmed.....	100.00	4.26
01 74 19 00-0044 CY Asphalt Or Asphalt And Dirt, Sized To 2" Minus.....	100.00	5.85
01 74 19 00-0045 CY Reinforced Concrete And Asphalt, Not Trimmed, 2" Minus.....	100.00	12.50
01 74 19 00-0046 CY Clean Dirt (No Grass, Weeds, Roots, Plants, Trash).....	100.00	28.41
01 74 19 00-0047 CY Clay Loads, Expansive Materials.....	100.00	35.51
01 74 19 00-0048 CY Clean Asphalt, Sized 2" Minus, No Dirt.....	100.00	5.07
01 74 19 00-0049 TON General Refuse.....	100.00	42.61
01 74 19 00-0050 EA Tires.....	100.00	13.02
01 74 19 00-0051 Hauling (01 74 19)		
Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.		
01 74 19 00-0052 CYM Hauling On Paved Roads, First 15 Miles.....	100.00	0.74
01 74 19 00-0053 CYM Hauling On Paved Roads, Miles Over Initial 15 Miles.....	100.00	0.49
01 74 19 00-0054 CYM Hauling On Unimproved Roads, First 15 Miles.....	100.00	1.13
01 74 19 00-0055 CYM Hauling On Unimproved Roads, Miles Over Initial 15 Miles.....	100.00	0.88

01	01	General Requirements
	01 70	Execution And Closeout Requirements
	01 74	Cleaning And Waste Management



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 23 Final Cleaning <small>(01 74)</small>		
01 74 23 00-0001 Glass <small>(01 74 23)</small>		
01 74 23 00-0002 CSF Clean Existing Glass Surfaces.....		23.11

END OF SECTION 01



Existing Conditions	02	02
Assessment	02 20	
Existing Material Assessment	02 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 Existing Conditions

02 20 Assessment ⁽⁰²⁾

02 25 Existing Material Assessment ^(02 20)

02 25 16 Existing Concrete, Masonry Or Asphalt Assessment ^(02 25)

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

02 25 16 13 Concrete Assessment Drilling ^(02 25 16)

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

02 30 Subsurface Investigation ⁽⁰²⁾

02 32 Geotechnical Investigations ^(02 30)

02 32 13 Subsurface Drilling And Sampling ^(02 32)

See CSI section 01 45 23 00-0000 for testing and lab reports.

02 32 13 00-0001 Mobilization Of Drilling Crew ^(02 32 13)

02 32 13 00-0002 EA Mobilization Of Drilling Crew 927.04

02 32 13 00-0003 Auger Borings ^(02 32 13)

02 32 13 00-0004 LF Standard Auger Hole With Split Spoon Sample At 5' Intervals 27.92

02 32 13 00-0005 Cased Borings In Earth, With Samples ^(02 32 13)

Note: All types of soils.

02 32 13 00-0006 LF 2-1/2" Diameter Cased Borings In Earth, With Samples 63.22

02 32 13 00-0007 LF 4" Diameter Cased Borings In Earth, With Samples 108.04

02 32 13 00-0008 Drilling In Rock, BW Core (2.125") ^(02 32 13)

02 32 13 00-0009 LF Drill In Rock, BW Core, With Casing 68.01

Note: Includes sampling.

02 32 13 00-0010 EA Drill In Rock, With BW Core Boxes 6.01

02 32 13 00-0011 Drilling In Rock, NW Core (2.98") ^(02 32 13)

02 32 13 00-0012 LF Drill In Rock, NW Core, With Casing 87.64

Note: Includes sampling.

02 32 13 00-0013 EA Drill In Rock, With NW Core Boxes 6.92

02 32 13 00-0014 Test Pits For Boring Activities ^(02 32 13)

Note: Excludes backfill. See CSI section 31 23 16 36-0016 for backfill.

02 32 13 00-0015 Backhoe Dug Test Pits ^(02 32 13 00-0014)

02 32 13 00-0016 CY Excavation For Test Pit, Light Material, Backhoe Excavation 53.51

02 32 13 00-0017 CY Excavation For Test Pits, Medium Material, Backhoe Excavation 62.43

02 32 13 00-0018 CY Excavation For Test Pit, Heavy Material, Backhoe Excavation 83.24

02 32 13 00-0019 Hand-Dug Test Pits ^(02 32 13 00-0014)

02 32 13 00-0020 CY Excavation For Test Pit, Light Soil, Hand Excavation 155.83

02 32 13 00-0021 CY Excavation For Test Pit, Heavy Soil, Hand Excavation 280.49

02 32 13 00-0022 Shelby Tube Sampling ^(02 32 13)

02 32 13 00-0023 EA Shelby Tube Sampling 29.93

02 32 13 00-0024 EA Penetration Test 24.39

02 32 13 00-0025 Grouting ^(02 32 13)

02 32 13 00-0026 VLF Boreholes 5.67

02 32 19 Exploratory Excavations ^(02 32)

02 32 19 00-0001 Hydroexcavation ^(02 32 19)

Note: Assumes on-site disposal.

02 32 19 00-0002 DAY Hydroexcavation, Mobilization 103.31

02 32 19 00-0003 DAY Hydroexcavation, Minimum Charge 413.25

Note: For projects where the total charge is less than the "Hydroexcavation Minimum" cost, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

02 32 19 00-0004 CY Hydroexcavation, Normal Soil Conditions (Hydro Vac Truck) 34.43

Note: Normal soil conditions consist of silt, sand and gravel.

02 Existing Conditions**02 30 Subsurface Investigation****02 32 Geotechnical Investigations**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
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02 32 19 00-0005 CY Hydroexcavation, Adverse Soil Conditions (Hydro Vac Truck)55.10
 Note: Adverse soil conditions consist of clay, glacial till and rocks.

02 40 Demolition And Structure Moving (02)**02 41 Demolition (02 40)****02 41 13 Selective Site Demolition (02 41)****02 41 13 13 Paving Removal (02 41 13)**

Note: Includes break-up of material, loading into truck or dumpster and clean-up. Salvage tasks include placement on pallets and storage on site.

02 41 13 13-0001 By Machine, Break-up And Leave In Place Bituminous And Concrete Paving (02 41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting. See CSI section 02 41 13 13-0017 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0056 for saw cutting.

02 41 13 13-0002	SY	Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving	5.57
		For >500 To 1,000, Deduct	-0.56
		For >1,000 To 2,500, Deduct	-1.00
		For >2,500 To 5,000, Deduct	-1.45
		For >5,000 To 10,000, Deduct	-1.89
		For >10,000, Deduct	-2.34
02 41 13 13-0003	SY	>3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving	8.36
		For >500 To 1,000, Deduct	-0.84
		For >1,000 To 2,500, Deduct	-1.50
		For >2,500 To 5,000, Deduct	-2.17
		For >5,000 To 10,000, Deduct	-2.84
		For >10,000, Deduct	-3.51
02 41 13 13-0004	SY	Up To 3" By Machine, Break-up And Leave In Place Concrete Paving	9.79
		For >500 To 1,000, Deduct	-0.98
		For >1,000 To 2,500, Deduct	-1.76
		For >2,500 To 5,000, Deduct	-2.55
		For >5,000 To 10,000, Deduct	-3.33
		For >10,000, Deduct	-4.11
02 41 13 13-0005	SY	>3" To 6" By Machine, Break-up And Leave In Place Concrete Paving	13.81
		For >500 To 1,000, Deduct	-1.38
		For >1,000 To 2,500, Deduct	-2.49
		For >2,500 To 5,000, Deduct	-3.59
		For >5,000 To 10,000, Deduct	-4.70
		For >10,000, Deduct	-5.80
02 41 13 13-0006	SY	>6" To 9" By Machine, Break-up And Leave In Place Concrete Paving	19.57
		For >500 To 1,000, Deduct	-1.96
		For >1,000 To 2,500, Deduct	-3.52
		For >2,500 To 5,000, Deduct	-5.09
		For >5,000 To 10,000, Deduct	-6.65
		For >10,000, Deduct	-8.22
02 41 13 13-0007	SY	>9" To 14" By Machine, Break-up And Leave In Place Concrete Paving.....	27.63
		For >500 To 1,000, Deduct	-2.76
		For >1,000 To 2,500, Deduct	-4.97
		For >2,500 To 5,000, Deduct	-7.18
		For >5,000 To 10,000, Deduct	-9.39
		For >10,000, Deduct	-11.60
02 41 13 13-0008	SY	>14" To 19" By Machine, Break-up And Leave In Place Concrete Paving.....	36.13
		For >500 To 1,000, Deduct	-3.61
		For >1,000 To 2,500, Deduct	-6.50
		For >2,500 To 5,000, Deduct	-9.39
		For >5,000 To 10,000, Deduct	-12.28
		For >10,000, Deduct	-15.17
02 41 13 13-0009	SY	>19" To 24" By Machine, Break-up And Leave In Place Concrete Paving.....	46.97
		For >500 To 1,000, Deduct	-4.70
		For >1,000 To 2,500, Deduct	-8.45
		For >2,500 To 5,000, Deduct	-12.21
		For >5,000 To 10,000, Deduct	-15.97
		For >10,000, Deduct	-19.73

02 41 13 13-0010 By Hand, Break-up And Leave In Place Bituminous And Concrete Paving (02

41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles with jackhammer and hand tools. For individual work areas up to 100 SF where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting. See CSI section 02 41 13 13-0017 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0056 for saw cutting.

02 41 13 13-0011	SF	Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving	1.40
02 41 13 13-0012	SF	>3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving	1.78
02 41 13 13-0013	SF	>6" To 8" By Hand, Break-up And Leave In Place Bituminous Paving	2.35
02 41 13 13-0014	SF	Up To 3" By Hand, Break-up And Leave In Place Concrete Paving	1.75
02 41 13 13-0015	SF	>3" To 6" By Hand, Break-up And Leave In Place Concrete Paving	2.23
02 41 13 13-0016	SF	Break-Up >6" To 8" Concrete Paving By Hand With Material Left In Place After Break-up	2.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0017 By Machine, Break-up And Remove Bituminous And Concrete Paving <small>(02 41 13 13)</small>		
<small>Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting. See CSI section 02 41 19 13-0056 for saw cutting.</small>		
02 41 13 13-0018 SY Up To 3" By Machine, Break-up And Remove Bituminous Paving	10.93	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	3.28	
For Elevated Slab, Add	5.47	
For >500 To 1,000, Deduct	-1.09	
For >1,000 To 2,500, Deduct	-1.97	
For >2,500 To 5,000, Deduct	-2.84	
For >5,000 To 10,000, Deduct	-3.72	
For >10,000, Deduct	-4.59	
02 41 13 13-0019 SY >3" To 6" By Machine, Break-up And Remove Bituminous Paving.....	14.91	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.47	
For Elevated Slab, Add	7.46	
For >500 To 1,000, Deduct	-1.49	
For >1,000 To 2,500, Deduct	-2.68	
For >2,500 To 5,000, Deduct	-3.88	
For >5,000 To 10,000, Deduct	-5.07	
For >10,000, Deduct	-6.26	
02 41 13 13-0020 SY Up To 3" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	12.57	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	3.77	
For Elevated Slab, Add	6.29	
For >500 To 1,000, Deduct	-1.26	
For >1,000 To 2,500, Deduct	-2.26	
For >2,500 To 5,000, Deduct	-3.27	
For >5,000 To 10,000, Deduct	-4.27	
For >10,000, Deduct	-5.28	
02 41 13 13-0021 SY >3" To 6" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	16.44	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.93	
For Elevated Slab, Add	8.22	
For >500 To 1,000, Deduct	-1.64	
For >1,000 To 2,500, Deduct	-2.96	
For >2,500 To 5,000, Deduct	-4.27	
For >5,000 To 10,000, Deduct	-5.59	
For >10,000, Deduct	-6.90	
02 41 13 13-0022 SY Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	16.67	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	5.00	
For Elevated Slab, Add	8.34	
For >500 To 1,000, Deduct	-1.67	
For >1,000 To 2,500, Deduct	-3.00	
For >2,500 To 5,000, Deduct	-4.33	
For >5,000 To 10,000, Deduct	-5.67	
For >10,000, Deduct	-7.00	
02 41 13 13-0023 SY >3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	21.61	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.48	
For Elevated Slab, Add	10.81	
For >500 To 1,000, Deduct	-2.16	
For >1,000 To 2,500, Deduct	-3.89	
For >2,500 To 5,000, Deduct	-5.62	
For >5,000 To 10,000, Deduct	-7.35	
For >10,000, Deduct	-9.08	
02 41 13 13-0024 SY >6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	35.81	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	10.74	
For Elevated Slab, Add	17.91	
For >500 To 1,000, Deduct	-3.58	
For >1,000 To 2,500, Deduct	-6.45	
For >2,500 To 5,000, Deduct	-9.31	
For >5,000 To 10,000, Deduct	-12.18	
For >10,000, Deduct	-15.04	
02 41 13 13-0025 SY Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	18.08	
For Elevated Slab, Add	9.04	
For >500 To 1,000, Deduct	-1.81	
For >1,000 To 2,500, Deduct	-3.25	
For >2,500 To 5,000, Deduct	-4.70	
For >5,000 To 10,000, Deduct	-6.15	
For >10,000, Deduct	-7.59	
02 41 13 13-0026 SY >3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	23.25	
For Elevated Slab, Add	11.63	
For >500 To 1,000, Deduct	-2.33	
For >1,000 To 2,500, Deduct	-4.19	
For >2,500 To 5,000, Deduct	-6.05	
For >5,000 To 10,000, Deduct	-7.91	
For >10,000, Deduct	-9.77	
02 41 13 13-0027 SY >6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	41.57	
For Elevated Slab, Add	20.79	
For >500 To 1,000, Deduct	-4.16	
For >1,000 To 2,500, Deduct	-7.48	
For >2,500 To 5,000, Deduct	-10.81	
For >5,000 To 10,000, Deduct	-14.13	
For >10,000, Deduct	-17.46	

02	Existing Conditions
02 40	Demolition And Structure Moving
02 41	Demolition



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0028 SY >9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	54.24	
For Elevated Slab, Add	27.12	
For >500 To 1,000, Deduct	-5.42	
For >1,000 To 2,500, Deduct	-9.76	
For >2,500 To 5,000, Deduct	-14.10	
For >5,000 To 10,000, Deduct	-18.44	
For >10,000, Deduct	-22.78	
02 41 13 13-0029 SY >14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	70.92	
For Elevated Slab, Add	35.46	
For >500 To 1,000, Deduct	-7.09	
For >1,000 To 2,500, Deduct	-12.77	
For >2,500 To 5,000, Deduct	-18.44	
For >5,000 To 10,000, Deduct	-24.11	
For >10,000, Deduct	-29.79	
02 41 13 13-0030 SY >19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	86.06	
For Elevated Slab, Add	43.03	
For >500 To 1,000, Deduct	-8.61	
For >1,000 To 2,500, Deduct	-15.49	
For >2,500 To 5,000, Deduct	-22.38	
For >5,000 To 10,000, Deduct	-29.26	
For >10,000, Deduct	-36.15	
02 41 13 13-0031 By Hand, Break-up And Remove Bituminous And Concrete Paving <small>(02 41 13 13)</small>		
Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas up to 100 SF where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0056 for saw cutting.		
02 41 13 13-0032 SF >6" To 8" By Hand, Break-up And Remove Bituminous Paving.....	5.35	
02 41 13 13-0033 SF Up To 3" By Hand, Break-up And Remove Concrete Paving.....	3.92	
02 41 13 13-0034 SF >3" To 6" By Hand, Break-up And Remove Concrete Paving.....	5.41	
02 41 13 13-0035 SF >6" To 8" By Hand, Break-up And Remove Concrete Paving.....	6.92	
02 41 13 13-0036 Grind Concrete <small>(02 41 13 13)</small>		
02 41 13 13-0037 EA Grind Existing Sidewalks Up To 1/2" Depth To Remove Ridges (Tripping Hazard).....	188.62	
Note: For each location up to 5' wide, feather up to 12" each direction.		
For >1/2" To 1" Depth Of Grinding, Add	28.29	
For >1" To 1-1/2" Depth Of Grinding, Add	47.16	
For Up To 5, Add	37.72	
For >5 To 10, Add	18.86	
For >25 To 50, Deduct	-18.86	
For >50 To 250, Deduct	-28.29	
For >250, Deduct	-37.72	
For Sidewalks >5', Add	18.86	
For Up To 12" Additional Feathering Per Side, Add	18.86	
02 41 13 13-0038 Repair Uneven Sidewalks <small>(02 41 13 13)</small>		
Note: (1 inch foot = 1 inch high X 1 linear foot long). Example for sample trip hazard: 1/2" high on one side, Zero on the other side, 4 linear foot long. Calculation for height would be: (1/2 + 0)/2 = 1/4 inch average. Calculation for length would be: 1/4 inch average X 4 feet = 1 inch foot.		
02 41 13 13-0039 IF Up To 2000 Inch Feet Repair Uneven Sidewalks	64.83	
02 41 13 13-0040 IF 2000 To 3000 Inch Feet Repair Uneven Sidewalks	61.50	
02 41 13 13-0041 IF 3000 And Up Inch Feet Repair Uneven Sidewalks	58.18	
02 41 19 Selective Demolition <small>(02 41)</small>		
02 41 19 13 Selective Building Demolition <small>(02 41 19)</small>		
02 41 19 13-0001 Exterior Masonry Removal <small>(02 41 19 13)</small>		
02 41 19 13-0002 Masonry Columns Removal (Interior And Exterior) <small>(02 41 19 13-0001)</small>		
02 41 19 13-0003 VLF 8" x 8" Masonry Column Removal	11.74	
02 41 19 13-0004 VLF 10" x 10" Masonry Column Removal	18.35	
02 41 19 13-0005 VLF 12" x 12" Masonry Column Removal	23.50	
02 41 19 13-0006 VLF 14" x 14" Masonry Column Removal	29.42	
02 41 19 13-0007 VLF 16" x 16" Masonry Column Removal	36.14	
02 41 19 13-0008 CF Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square	20.29	
02 41 19 13-0009 Masonry Chimney Removal <small>(02 41 19 13-0001)</small>		
02 41 19 13-0010 CF Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	23.81	
02 41 19 13-0011 CF >3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	17.88	
02 41 19 13-0012 CF >10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	13.67	
02 41 19 13-0013 CF >20 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	9.47	
02 41 19 13-0014 Remove And Reset Precast, Stone Or Masonry Coping <small>(02 41 19 13-0001)</small>		
Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0056 for saw cutting.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0015 LF Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping	17.25	
02 41 19 13-0016 LF >8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping	25.30	
02 41 19 13-0017 LF >12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping	47.42	
02 41 19 13-0018 Facade Removal <small>(02 41 19 13-0001)</small>		
<small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0056 for saw cutting.</small>		
02 41 19 13-0019 SF Stone Or Brick Veneer Facade Removal	4.47	
<i>For Cleaning and Storage For Reuse, Add</i>	3.35	
<i>For Reinforcing, Add</i>	0.67	
02 41 19 13-0020 Exterior Masonry Removal <small>(02 41 19 13-0001)</small>		
<small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0056 for saw cutting.</small>		
02 41 19 13-0021 SF Demolish 4" Thick Non Reinforced Concrete Block Exterior Wall.....	3.94	
02 41 19 13-0022 SF Demolish 6" Thick Non Reinforced Concrete Block Exterior Wall.....	4.43	
02 41 19 13-0023 SF Demolish 8" Thick Non Reinforced Concrete Block Exterior Wall.....	5.36	
02 41 19 13-0024 SF Demolish 10" Thick Non Reinforced Concrete Block Exterior Wall.....	5.86	
02 41 19 13-0025 SF Demolish 12" Thick Non Reinforced Concrete Block Exterior Wall.....	6.43	
02 41 19 13-0026 SF Demolish 16" Thick Non Reinforced Concrete Block Exterior Wall.....	8.05	
02 41 19 13-0027 SF Demolish 4" Thick Reinforced Concrete Block Exterior Wall	4.64	
02 41 19 13-0028 SF Demolish 6" Thick Reinforced Concrete Block Exterior Wall	5.32	
02 41 19 13-0029 SF Demolish 8" Thick Reinforced Concrete Block Exterior Wall	6.43	
02 41 19 13-0030 SF Demolish 10" Thick Reinforced Concrete Block Exterior Wall	7.04	
02 41 19 13-0031 SF Demolish 12" Thick Reinforced Concrete Block Exterior Wall	7.72	
02 41 19 13-0032 SF Demolish 16" Thick Reinforced Concrete Block Exterior Wall	9.67	
02 41 19 13-0033 SF Demolish 4" Thick Brick Exterior Wall.....	3.94	
<i>For Cleaning and Storage For Reuse, Add</i>	2.96	
02 41 19 13-0034 SF Demolish 6" Thick Brick Exterior Wall.....	4.43	
<i>For Cleaning and Storage For Reuse, Add</i>	3.32	
02 41 19 13-0035 SF Demolish 8" Thick Brick Exterior Wall.....	5.36	
<i>For Cleaning and Storage For Reuse, Add</i>	4.02	
02 41 19 13-0036 SF Demolish 10" Thick Brick Exterior Wall.....	5.86	
<i>For Cleaning and Storage For Reuse, Add</i>	4.40	
02 41 19 13-0037 SF Demolish 12" Thick Brick Exterior Wall.....	6.43	
<i>For Cleaning and Storage For Reuse, Add</i>	4.82	
02 41 19 13-0038 SF Demolish 16" Thick Brick Exterior Wall.....	8.05	
<i>For Cleaning and Storage For Reuse, Add</i>	6.04	
02 41 19 13-0039 CF Exterior Brick, Concrete Block Or Composite Removal	11.44	
<i>For Cleaning and Storage For Reuse, Add</i>	8.58	
<i>For Reinforcing, Add</i>	1.72	
02 41 19 13-0040 Lintel Removal <small>(02 41 19 13-0001)</small>		
<small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0056 for saw cutting.</small>		
02 41 19 13-0041 LF Demolish Steel Lintel	14.58	
02 41 19 13-0042 LF Demolish Concrete Or Stone Lintel	19.44	
02 41 19 13-0043 LF Demolish Steel Shelf Angle	15.39	
02 41 19 13-0044 LF Clean, Prime And Paint Steel Shelf Angle Or Lintel.....	9.43	
02 41 19 13-0045 LF Reinstall Existing Concrete Or Stone Lintel	19.44	
02 41 19 13-0046 LF Reinstall Existing Steel Shelf Angle.....	38.90	
<small>Note: Includes fasteners.</small>		
02 41 19 13-0047 LF Reinstall Existing Steel Lintel.....	16.19	
02 41 19 13-0048 LF Removal And Replacement Of Steel Shelf Angle Over Window Openings At Cavity Walls	92.02	
02 41 19 13-0049 LF Removal And Replacement Of Steel Lintel Over Window Openings	108.23	
02 41 19 13-0050 Exterior Concrete Wall Removal <small>(02 41 19 13)</small>		
02 41 19 13-0051 SF Demolish 4" Thick Reinforced Concrete Exterior Wall	5.26	
02 41 19 13-0052 SF Demolish 6" Thick Reinforced Concrete Exterior Wall	9.54	
02 41 19 13-0053 SF Demolish 8" Thick Reinforced Concrete Exterior Wall	11.99	
02 41 19 13-0054 SF Demolish 10" Thick Reinforced Concrete Exterior Wall	14.14	
02 41 19 13-0055 SF Demolish 12" Thick Reinforced Concrete Exterior Wall	16.72	
02 41 19 13-0056 Saw Cutting <small>(02 41 19 13)</small>		
<small>Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.</small>		
02 41 19 13-0057 LF Saw Cut Bituminous Paving Up To 4" Depth	1.76	
<i>For Each Additional Pass (Depth To 3"), Add</i>	0.68	
<i>For >250, Deduct</i>	-0.17	
02 41 19 13-0058 LF Saw Cut Brick Masonry Up To 4" Depth	6.68	
<i>For Each Additional Pass (Depth To 3"), Add</i>	2.65	
<i>For >250, Deduct</i>	-0.66	

02	Existing Conditions
02 40	Demolition And Structure Moving
02 41	Demolition



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0059 LF Saw Cut Concrete Block Up To 4" Depth.....	6.04	
For Each Additional Pass (Depth To 3"), Add	2.39	
For >250, Deduct	-0.60	
02 41 19 13-0060 LF Saw Cut Non Reinforced Concrete Slab Or Paving Up To 4" Depth	2.02	
For Each Additional Pass (Depth To 3"), Add	0.78	
For >250, Deduct	-0.19	
02 41 19 13-0061 LF Saw Cut Welded Wire Reinforced Concrete Slab Up To 4" Depth	2.67	
For Each Additional Pass (Depth To 3"), Add	1.04	
For >250, Deduct	-0.26	
02 41 19 13-0062 LF Saw Cut Rod Reinforced Concrete Slab Up To 4" Depth	4.44	
For Each Additional Pass (Depth To 3"), Add	1.74	
For >250, Deduct	-0.43	
02 41 19 13-0063 LF Saw Cut Plain Concrete Walls Up To 4" Depth.....	8.56	
For Each Additional Pass (Depth To 3"), Add	3.40	
For >250, Deduct	-0.85	
02 41 19 13-0064 LF Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth.....	11.50	
For Each Additional Pass (Depth To 3"), Add	4.56	
For >250, Deduct	-1.14	
02 41 19 13-0065 LF Saw Cut In Streets, Concrete And Asphalt Up To 4" Depth.....	2.17	
For Each Additional Pass (Depth To 3"), Add	0.80	
For >250, Deduct	-0.19	
02 41 19 13-0066 LF Saw Cut Igneous Stone Pavements Up To 4" Depth.....	6.06	
For Each Additional Pass (Depth To 3"), Add	2.40	
For >250, Deduct	-0.60	
02 41 19 13-0067 LF Saw Cut Sedimentary Stone Pavements Up To 4" Depth.....	6.06	
For Each Additional Pass (Depth To 3"), Add	2.40	
For >250, Deduct	-0.60	
02 41 19 13-0068 LF Saw Cut Metamorphic Stone Pavements Up To 4" Depth.....	6.06	
For Each Additional Pass (Depth To 3"), Add	2.40	
For >250, Deduct	-0.60	
02 41 19 13-0069 LF Saw Cut Terrazzo Stone Pavements Up To 4" Depth.....	6.06	
For Each Additional Pass (Depth To 3"), Add	2.40	
For >250, Deduct	-0.60	
02 41 19 13-0070 EA Saw Cut Minimum Set-up Charge, One Per Project.....	769.67	
Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0071 Torch Cutting (02 41 19 13)		
Note: Includes grinding edge		
02 41 19 13-0072 LF Up To 1/2", Torch Cut Steel Plate.....	2.42	
02 41 19 13-0073 LF >1/2" To 1" Thick, Torch Cut Steel Plate.....	4.86	
02 41 19 13-0074 LF >1" To 1-1/2" Thick, Torch Cut Steel Plate	7.28	
02 41 19 13-0075 LF >1-1/2" To 2" Thick, Torch Cut Steel Plate	9.72	
02 41 19 13-0076 LF >2" To 2-1/2" Thick, Torch Cut Steel Plate	12.14	
02 41 19 13-0077 LF >2-1/2" To 3" Thick, Torch Cut Steel Plate	14.58	
02 41 19 13-0078 EA Torch Cutting Minimum Charge	732.92	
Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0079 Drilling In Existing Materials (02 41 19 13)		
Note: Includes drill bit wear, water, layout, set-up and clean-up.		
02 41 19 13-0080 Concrete Core Drilling (02 41 19 13-0079)		
02 41 19 13-0081 Up To 4" Thick Concrete Core Drilling (02 41 19 13-0080)		
02 41 19 13-0082 EA Drill 1" Diameter Core In Up To 4" Concrete.....	33.94	
For Horizontal Cores, Add	6.48	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	12.97	
02 41 19 13-0083 EA Drill 1-1/2" Diameter Core In Up To 4" Concrete.....	37.54	
For Horizontal Cores, Add	7.20	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.41	
02 41 19 13-0084 EA Drill 2" Diameter Core In Up To 4" Concrete.....	41.55	
For Horizontal Cores, Add	8.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.01	
02 41 19 13-0085 EA Drill 3" Diameter Core In Up To 4" Concrete.....	59.24	
For Horizontal Cores, Add	11.44	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.88	
02 41 19 13-0086 EA Drill 4" Diameter Core In Up To 4" Concrete.....	79.39	
For Horizontal Cores, Add	15.33	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	30.65	
02 41 19 13-0087 EA Drill 6" Diameter Core In Up To 4" Concrete.....	89.25	
For Horizontal Cores, Add	17.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.31	
02 41 19 13-0088 EA Drill 8" Diameter Core In Up To 4" Concrete.....	142.02	
For Horizontal Cores, Add	27.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	54.90	
02 41 19 13-0089 EA Drill 10" Diameter Core In Up To 4" Concrete.....	178.06	
For Horizontal Cores, Add	34.31	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	68.62	
02 41 19 13-0090 EA Drill 12" Diameter Core In Up To 4" Concrete.....	207.95	
For Horizontal Cores, Add	40.03	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	80.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0091 EA Drill 14" Diameter Core In Up To 4" Concrete.....	238.00	
For Horizontal Cores, Add	45.75	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	91.49	
02 41 19 13-0092 EA Drill 18" Diameter Core In Up To 4" Concrete.....	269.21	
For Horizontal Cores, Add	51.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	102.92	
02 41 19 13-0093 >4" To 6" Thick Concrete Core Drilling (02 41 19 13-0080)		
02 41 19 13-0094 EA Drill 1" Diameter Core In >4" To 6" Concrete.....	48.65	
For Horizontal Cores, Add	9.26	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.52	
02 41 19 13-0095 EA Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....	53.79	
For Horizontal Cores, Add	10.29	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.58	
02 41 19 13-0096 EA Drill 2" Diameter Core In >4" To 6" Concrete.....	59.52	
For Horizontal Cores, Add	11.44	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.87	
02 41 19 13-0097 EA Drill 3" Diameter Core In >4" To 6" Concrete.....	71.82	
For Horizontal Cores, Add	13.72	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.45	
02 41 19 13-0098 EA Drill 4" Diameter Core In >4" To 6" Concrete.....	90.02	
For Horizontal Cores, Add	17.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.31	
02 41 19 13-0099 EA Drill 6" Diameter Core In >4" To 6" Concrete.....	119.65	
For Horizontal Cores, Add	22.87	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	45.75	
02 41 19 13-0100 EA Drill 8" Diameter Core In >4" To 6" Concrete.....	178.77	
For Horizontal Cores, Add	34.31	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	68.62	
02 41 19 13-0101 EA Drill 10" Diameter Core In >4" To 6" Concrete.....	209.88	
For Horizontal Cores, Add	40.03	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	80.06	
02 41 19 13-0102 EA Drill 12" Diameter Core In >4" To 6" Concrete.....	240.38	
For Horizontal Cores, Add	45.75	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	91.49	
02 41 19 13-0103 EA Drill 14" Diameter Core In >4" To 6" Concrete.....	271.47	
For Horizontal Cores, Add	51.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	102.92	
02 41 19 13-0104 EA Drill 18" Diameter Core In >4" To 6" Concrete.....	304.26	
For Horizontal Cores, Add	57.18	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	114.37	
02 41 19 13-0105 >6" To 8" Thick Concrete Core Drilling (02 41 19 13-0080)		
02 41 19 13-0106 EA Drill 1" Diameter Core In >6" To 8" Concrete.....	54.13	
For Horizontal Cores, Add	10.19	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.38	
02 41 19 13-0107 EA Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	59.78	
For Horizontal Cores, Add	11.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.64	
02 41 19 13-0108 EA Drill 2" Diameter Core In >6" To 8" Concrete.....	66.08	
For Horizontal Cores, Add	12.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.16	
02 41 19 13-0109 EA Drill 3" Diameter Core In >6" To 8" Concrete.....	78.70	
For Horizontal Cores, Add	14.87	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.74	
02 41 19 13-0110 EA Drill 4" Diameter Core In >6" To 8" Concrete.....	102.93	
For Horizontal Cores, Add	19.44	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	38.88	
02 41 19 13-0111 EA Drill 6" Diameter Core In >6" To 8" Concrete.....	144.34	
For Horizontal Cores, Add	27.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	54.90	
02 41 19 13-0112 EA Drill 8" Diameter Core In >6" To 8" Concrete.....	238.38	
For Horizontal Cores, Add	45.75	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	91.49	
02 41 19 13-0113 EA Drill 10" Diameter Core In >6" To 8" Concrete.....	270.24	
For Horizontal Cores, Add	51.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	102.92	
02 41 19 13-0114 EA Drill 12" Diameter Core In >6" To 8" Concrete.....	301.43	
For Horizontal Cores, Add	57.18	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	114.37	
02 41 19 13-0115 EA Drill 14" Diameter Core In >6" To 8" Concrete.....	333.51	
For Horizontal Cores, Add	62.89	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	125.78	
02 41 19 13-0116 EA Drill 18" Diameter Core In >6" To 8" Concrete.....	367.89	
For Horizontal Cores, Add	68.62	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	137.25	
02 41 19 13-0117 >8" To 10" Thick Concrete Core Drilling (02 41 19 13-0080)		
02 41 19 13-0118 EA Drill 1" Diameter Core In >8" To 10" Concrete.....	64.23	
For Horizontal Cores, Add	12.04	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.09	

02 Existing Conditions**02 40 Demolition And Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0119 EA Drill 1-1/2" Diameter Core In >8" To 10" Concrete.....	70.92	
For Horizontal Cores, Add	13.38	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.76	
02 41 19 13-0120 EA Drill 2" Diameter Core In >8" To 10" Concrete.....	78.35	
For Horizontal Cores, Add	14.87	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.74	
02 41 19 13-0121 EA Drill 3" Diameter Core In >8" To 10" Concrete.....	91.30	
For Horizontal Cores, Add	17.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.31	
02 41 19 13-0122 EA Drill 4" Diameter Core In >8" To 10" Concrete.....	104.41	
For Horizontal Cores, Add	19.44	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	38.88	
02 41 19 13-0123 EA Drill 6" Diameter Core In >8" To 10" Concrete.....	146.14	
For Horizontal Cores, Add	27.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	54.90	
02 41 19 13-0124 EA Drill 8" Diameter Core In >8" To 10" Concrete.....	240.83	
For Horizontal Cores, Add	45.75	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	91.49	
02 41 19 13-0125 EA Drill 10" Diameter Core In >8" To 10" Concrete.....	273.46	
For Horizontal Cores, Add	51.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	102.92	
02 41 19 13-0126 EA Drill 12" Diameter Core In >8" To 10" Concrete.....	305.24	
For Horizontal Cores, Add	57.17	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	114.35	
02 41 19 13-0127 EA Drill 14" Diameter Core In >8" To 10" Concrete.....	338.40	
For Horizontal Cores, Add	62.89	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	125.78	
02 41 19 13-0128 EA Drill 18" Diameter Core In >8" To 10" Concrete.....	374.25	
For Horizontal Cores, Add	68.61	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	137.22	
02 41 19 13-0129 >10" To 12" Thick Concrete Core Drilling (02 41 19 13-0080)		
02 41 19 13-0130 EA Drill 1" Diameter Core In >10" To 12" Concrete.....	69.70	
For Horizontal Cores, Add	12.97	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.94	
02 41 19 13-0131 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete.....	76.91	
For Horizontal Cores, Add	14.41	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.82	
02 41 19 13-0132 EA Drill 2" Diameter Core In >10" To 12" Concrete.....	84.92	
For Horizontal Cores, Add	16.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	32.03	
02 41 19 13-0133 EA Drill 3" Diameter Core In >10" To 12" Concrete.....	92.46	
For Horizontal Cores, Add	17.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.31	
02 41 19 13-0134 EA Drill 4" Diameter Core In >10" To 12" Concrete.....	123.05	
For Horizontal Cores, Add	22.87	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	45.75	
02 41 19 13-0135 EA Drill 6" Diameter Core In >10" To 12" Concrete.....	159.38	
For Horizontal Cores, Add	29.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	59.48	
02 41 19 13-0136 EA Drill 8" Diameter Core In >10" To 12" Concrete.....	254.72	
For Horizontal Cores, Add	48.04	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	96.07	
02 41 19 13-0137 EA Drill 10" Diameter Core In >10" To 12" Concrete.....	276.68	
For Horizontal Cores, Add	51.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	102.92	
02 41 19 13-0138 EA Drill 12" Diameter Core In >10" To 12" Concrete.....	320.62	
For Horizontal Cores, Add	59.48	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	118.96	
02 41 19 13-0139 >12" Thick Concrete Core Drilling (02 41 19 13-0080)		
02 41 19 13-0140 IN Drill 1" Diameter Core In >12" Concrete.....	8.33	
For Horizontal Cores, Add	1.59	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.17	
02 41 19 13-0141 IN Drill 1-1/2" Diameter Core In >12" Concrete.....	9.21	
For Horizontal Cores, Add	1.76	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.52	
02 41 19 13-0142 IN Drill 2" Diameter Core In >12" Concrete.....	10.19	
For Horizontal Cores, Add	1.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.92	
02 41 19 13-0143 IN Drill 3" Diameter Core In >12" Concrete.....	11.28	
For Horizontal Cores, Add	2.14	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.29	
02 41 19 13-0144 IN Drill 4" Diameter Core In >12" Concrete.....	15.01	
For Horizontal Cores, Add	2.86	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	5.72	
02 41 19 13-0145 IN Drill 6" Diameter Core In >12" Concrete.....	19.48	
For Horizontal Cores, Add	3.72	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	7.44	
02 41 19 13-0146 IN Drill 8" Diameter Core In >12" Concrete.....	31.26	
For Horizontal Cores, Add	6.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	12.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0147 IN Drill 10" Diameter Core In >12" Concrete	33.91	
<i>For Horizontal Cores, Add</i>	6.46	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	12.92	
02 41 19 13-0148 IN Drill 12" Diameter Core In >12" Concrete	39.14	
<i>For Horizontal Cores, Add</i>	7.44	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.88	
02 41 19 13-0149 Brick/Concrete Block Core Drilling (02 41 19 13-0079)		
02 41 19 13-0150 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0149)		
02 41 19 13-0151 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block	27.46	
<i>For Horizontal Cores, Add</i>	5.19	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	10.38	
02 41 19 13-0152 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block	30.34	
<i>For Horizontal Cores, Add</i>	5.76	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	11.53	
02 41 19 13-0153 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block	33.55	
<i>For Horizontal Cores, Add</i>	6.41	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	12.81	
02 41 19 13-0154 EA Drill 3" Diameter Core In Up To 4" Brick/Concrete Block	47.80	
<i>For Horizontal Cores, Add</i>	9.15	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	18.30	
02 41 19 13-0155 EA Drill 4" Diameter Core In Up To 4" Brick/Concrete Block	64.06	
<i>For Horizontal Cores, Add</i>	12.26	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	24.52	
02 41 19 13-0156 EA Drill 6" Diameter Core In Up To 4" Brick/Concrete Block	72.09	
<i>For Horizontal Cores, Add</i>	13.72	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.45	
02 41 19 13-0157 EA Drill 8" Diameter Core In Up To 4" Brick/Concrete Block	114.56	
<i>For Horizontal Cores, Add</i>	21.96	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	43.92	
02 41 19 13-0158 EA Drill 10" Diameter Core In Up To 4" Brick/Concrete Block	143.75	
<i>For Horizontal Cores, Add</i>	27.45	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	54.90	
02 41 19 13-0159 EA Drill 12" Diameter Core In Up To 4" Brick/Concrete Block	167.92	
<i>For Horizontal Cores, Add</i>	32.03	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	64.05	
02 41 19 13-0160 EA Drill 14" Diameter Core In Up To 4" Brick/Concrete Block	192.25	
<i>For Horizontal Cores, Add</i>	36.60	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	73.19	
02 41 19 13-0161 EA Drill 18" Diameter Core In Up To 4" Brick/Concrete Block	217.74	
<i>For Horizontal Cores, Add</i>	41.17	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	82.34	
02 41 19 13-0162 >4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0149)		
02 41 19 13-0163 EA Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block	39.39	
<i>For Horizontal Cores, Add</i>	7.41	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.82	
02 41 19 13-0164 EA Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block	43.51	
<i>For Horizontal Cores, Add</i>	8.23	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	16.47	
02 41 19 13-0165 EA Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block	48.08	
<i>For Horizontal Cores, Add</i>	9.15	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	18.30	
02 41 19 13-0166 EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block	58.10	
<i>For Horizontal Cores, Add</i>	10.98	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	21.96	
02 41 19 13-0167 EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block	72.86	
<i>For Horizontal Cores, Add</i>	13.72	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.45	
02 41 19 13-0168 EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block	96.78	
<i>For Horizontal Cores, Add</i>	18.30	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	36.60	
02 41 19 13-0169 EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block	144.46	
<i>For Horizontal Cores, Add</i>	27.45	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	54.90	
02 41 19 13-0170 EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block	169.85	
<i>For Horizontal Cores, Add</i>	32.03	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	64.05	
02 41 19 13-0171 EA Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block	194.63	
<i>For Horizontal Cores, Add</i>	36.60	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	73.19	
02 41 19 13-0172 EA Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block	220.00	
<i>For Horizontal Cores, Add</i>	41.17	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	82.34	
02 41 19 13-0173 EA Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block	247.08	
<i>For Horizontal Cores, Add</i>	45.75	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	91.50	
02 41 19 13-0174 >6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0149)		

02	Existing Conditions
02 40	Demolition And Structure Moving
02 41	Demolition



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0175 EA Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block	43.94	
For Horizontal Cores, Add	8.15	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.31	
02 41 19 13-0176 EA Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block	48.46	
For Horizontal Cores, Add	9.06	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.12	
02 41 19 13-0177 EA Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block	53.50	
For Horizontal Cores, Add	10.07	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.13	
02 41 19 13-0178 EA Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block	63.83	
For Horizontal Cores, Add	11.89	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	23.79	
02 41 19 13-0179 EA Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block	83.49	
For Horizontal Cores, Add	15.55	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.11	
02 41 19 13-0180 EA Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block	116.88	
For Horizontal Cores, Add	21.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	43.92	
02 41 19 13-0181 EA Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block	192.63	
For Horizontal Cores, Add	36.60	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	73.19	
02 41 19 13-0182 EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block	218.77	
For Horizontal Cores, Add	41.17	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	82.34	
02 41 19 13-0183 EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block	244.25	
For Horizontal Cores, Add	45.75	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	91.50	
02 41 19 13-0184 EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block	270.62	
For Horizontal Cores, Add	50.31	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	100.63	
02 41 19 13-0185 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block	299.27	
For Horizontal Cores, Add	54.90	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	109.80	
02 41 19 13-0186 >8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0149)		
02 41 19 13-0187 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block	52.18	
For Horizontal Cores, Add	9.63	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	19.27	
02 41 19 13-0188 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block	57.54	
For Horizontal Cores, Add	10.71	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.41	
02 41 19 13-0189 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block	63.48	
For Horizontal Cores, Add	11.89	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	23.79	
02 41 19 13-0190 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block	74.14	
For Horizontal Cores, Add	13.72	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.45	
02 41 19 13-0191 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block	84.97	
For Horizontal Cores, Add	15.55	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.11	
02 41 19 13-0192 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block	118.68	
For Horizontal Cores, Add	21.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	43.92	
02 41 19 13-0193 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block	195.08	
For Horizontal Cores, Add	36.60	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	73.19	
02 41 19 13-0194 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block	221.99	
For Horizontal Cores, Add	41.17	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	82.34	
02 41 19 13-0195 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block	248.06	
For Horizontal Cores, Add	45.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	91.48	
02 41 19 13-0196 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block	275.51	
For Horizontal Cores, Add	50.31	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	100.63	
02 41 19 13-0197 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block	305.64	
For Horizontal Cores, Add	54.89	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	109.77	
02 41 19 13-0198 >10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0149)		
02 41 19 13-0199 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block	56.74	
For Horizontal Cores, Add	10.38	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.76	
02 41 19 13-0200 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block	62.50	
For Horizontal Cores, Add	11.53	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	23.06	
02 41 19 13-0201 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block	68.90	
For Horizontal Cores, Add	12.81	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.62	
02 41 19 13-0202 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block	75.30	
For Horizontal Cores, Add	13.72	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0203 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block	100.18	
<i>For Horizontal Cores, Add</i>	18.30	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	36.60	
02 41 19 13-0204 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block	129.63	
<i>For Horizontal Cores, Add</i>	23.79	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	47.58	
02 41 19 13-0205 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block	206.69	
<i>For Horizontal Cores, Add</i>	38.43	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	76.86	
02 41 19 13-0206 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block	225.21	
<i>For Horizontal Cores, Add</i>	41.17	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	82.34	
02 41 19 13-0207 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block	261.15	
<i>For Horizontal Cores, Add</i>	47.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	95.17	
02 41 19 13-0208 >12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0149)		
02 41 19 13-0209 IN Drill 1" Diameter Core In >12" Brick/Concrete Block	6.74	
<i>For Horizontal Cores, Add</i>	1.27	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	2.54	
02 41 19 13-0210 IN Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block	7.44	
<i>For Horizontal Cores, Add</i>	1.41	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	2.82	
02 41 19 13-0211 IN Drill 2" Diameter Core In >12" Brick/Concrete Block	8.23	
<i>For Horizontal Cores, Add</i>	1.57	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.13	
02 41 19 13-0212 IN Drill 3" Diameter Core In >12" Brick/Concrete Block	9.13	
<i>For Horizontal Cores, Add</i>	1.71	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.43	
02 41 19 13-0213 IN Drill 4" Diameter Core In >12" Brick/Concrete Block	12.15	
<i>For Horizontal Cores, Add</i>	2.29	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.57	
02 41 19 13-0214 IN Drill 6" Diameter Core In >12" Brick/Concrete Block	15.77	
<i>For Horizontal Cores, Add</i>	2.98	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	5.95	
02 41 19 13-0215 IN Drill 8" Diameter Core In >12" Brick/Concrete Block	25.25	
<i>For Horizontal Cores, Add</i>	4.81	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	9.62	
02 41 19 13-0216 IN Drill 10" Diameter Core In >12" Brick/Concrete Block	27.45	
<i>For Horizontal Cores, Add</i>	5.17	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	10.34	
02 41 19 13-0217 IN Drill 12" Diameter Core In >12" Brick/Concrete Block	31.70	
<i>For Horizontal Cores, Add</i>	5.95	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	11.90	
02 41 19 13-0218 Asphalt Core Drilling (02 41 19 13-0079)		
02 41 19 13-0219 Up To 2" Thick Asphalt Core Drilling (02 41 19 13-0218)		
02 41 19 13-0220 EA Drill 1" Diameter Core In Up To 2" Asphalt	15.95	
02 41 19 13-0221 EA Drill 1-1/2" Diameter Core In Up To 2" Asphalt	19.97	
02 41 19 13-0222 EA Drill 2" Diameter Core In Up To 2" Asphalt	24.95	
02 41 19 13-0223 EA Drill 3" Diameter Core In Up To 2" Asphalt	30.98	
02 41 19 13-0224 EA Drill 4" Diameter Core In Up To 2" Asphalt	39.02	
02 41 19 13-0225 EA Drill 6" Diameter Core In Up To 2" Asphalt	49.03	
02 41 19 13-0226 EA Drill 8" Diameter Core In Up To 2" Asphalt	61.16	
02 41 19 13-0227 EA Drill 10" Diameter Core In Up To 2" Asphalt	76.06	
02 41 19 13-0228 EA Drill 12" Diameter Core In Up To 2" Asphalt	94.99	
02 41 19 13-0229 >2" To 3" Thick Asphalt Core Drilling (02 41 19 13-0218)		
02 41 19 13-0230 EA Drill 1" Diameter Core In >2" To 3" Asphalt	19.93	
02 41 19 13-0231 EA Drill 1-1/2" Diameter Core In >2" To 3" Asphalt	25.90	
02 41 19 13-0232 EA Drill 2" Diameter Core In >2" To 3" Asphalt	31.88	
02 41 19 13-0233 EA Drill 3" Diameter Core In >2" To 3" Asphalt	39.89	
02 41 19 13-0234 EA Drill 4" Diameter Core In >2" To 3" Asphalt	49.91	
02 41 19 13-0235 EA Drill 6" Diameter Core In >2" To 3" Asphalt	62.89	
02 41 19 13-0236 EA Drill 8" Diameter Core In >2" To 3" Asphalt	78.02	
02 41 19 13-0237 EA Drill 10" Diameter Core In >2" To 3" Asphalt	97.86	
02 41 19 13-0238 EA Drill 12" Diameter Core In >2" To 3" Asphalt	121.74	
02 41 19 13-0239 >3" To 4" Thick Asphalt Core Drilling (02 41 19 13-0218)		
02 41 19 13-0240 EA Drill 1" Diameter Core In >3" To 4" Asphalt	25.93	
02 41 19 13-0241 EA Drill 1-1/2" Diameter Core In >3" To 4" Asphalt	32.94	
02 41 19 13-0242 EA Drill 2" Diameter Core In >3" To 4" Asphalt	40.90	
02 41 19 13-0243 EA Drill 3" Diameter Core In >3" To 4" Asphalt	50.95	
02 41 19 13-0244 EA Drill 4" Diameter Core In >3" To 4" Asphalt	64.02	
02 41 19 13-0245 EA Drill 6" Diameter Core In >3" To 4" Asphalt	80.05	
02 41 19 13-0246 EA Drill 8" Diameter Core In >3" To 4" Asphalt	100.26	
02 41 19 13-0247 EA Drill 10" Diameter Core In >3" To 4" Asphalt	125.11	
02 41 19 13-0248 EA Drill 12 Diameter Core In >3" To 4" Asphalt	155.99	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 41 19 13-0249	>4" To 6" Thick Asphalt Core Drilling (02 41 19 13-0218)	
02 41 19 13-0250	EA Drill 1" Diameter Core In >4" To 6" Asphalt.....	34.01
02 41 19 13-0251	EA Drill 1-1/2" Diameter Core In >4" To 6" Asphalt.....	42.08
02 41 19 13-0252	EA Drill 2" Diameter Core In >4" To 6" Asphalt.....	52.06
02 41 19 13-0253	EA Drill 3" Diameter Core In >4" To 6" Asphalt.....	66.22
02 41 19 13-0254	EA Drill 4" Diameter Core In >4" To 6" Asphalt.....	82.38
02 41 19 13-0255	EA Drill 6" Diameter Core In >4" To 6" Asphalt.....	102.48
02 41 19 13-0256	EA Drill 8" Diameter Core In >4" To 6" Asphalt.....	128.88
02 41 19 13-0257	EA Drill 10" Diameter Core In >4" To 6" Asphalt.....	160.76
02 41 19 13-0258	EA Drill 12" Diameter Core In >4" To 6" Asphalt.....	200.76
02 41 19 13-0259	Manhole Core Drilling (02 41 19 13-0079)	
02 41 19 13-0260	EA Drill 4" Diameter Core In 6" Brick Manhole.....	174.42
02 41 19 13-0261	EA Drill 5" Diameter Core In 6" Brick Manhole.....	199.30
02 41 19 13-0262	EA Drill 6" Diameter Core In 6" Brick Manhole.....	232.27
02 41 19 13-0263	EA Drill 8" Diameter Core In 6" Brick Manhole.....	347.95
02 41 19 13-0264	EA Drill 2" Diameter Core In 8" Concrete Manhole.....	233.19
02 41 19 13-0265	EA Drill 3" Diameter Core In 8" Concrete Manhole.....	249.07
02 41 19 13-0266	EA Drill 4" Diameter Core In 8" Concrete Manhole.....	274.89
02 41 19 13-0267	EA Drill 5" Diameter Core In 8" Concrete Manhole.....	295.15
02 41 19 13-0268	EA Drill 6" Diameter Core In 8" Concrete Manhole.....	349.66
02 41 19 13-0269	EA Drill 8" Diameter Core In 8" Concrete Manhole.....	499.05
02 41 19 13-0270	EA Drill 2" Diameter Core In Fiberglass Manhole.....	22.95
02 41 19 13-0271	EA Drill 3" Diameter Core In Fiberglass Manhole.....	26.50
02 41 19 13-0272	EA Drill 4" Diameter Core In Fiberglass Manhole.....	28.74
02 41 19 13-0273	EA Drill 5" Diameter Core In Fiberglass Manhole.....	31.36
02 41 19 13-0274	EA Drill 6" Diameter Core In Fiberglass Manhole.....	34.51
02 41 19 13-0275	EA Drill 8" Diameter Core In Fiberglass Manhole.....	38.36
02 41 19 13-0276	Drilling In Concrete Per Inch Of Depth (02 41 19 13-0079)	
	Note: Includes layout.	
02 41 19 13-0277	IN 1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	1.82
02 41 19 13-0278	IN 3/8" Diameter Drilling In Concrete Per Inch Of Depth.....	1.91
02 41 19 13-0279	IN 1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	2.04
02 41 19 13-0280	IN 5/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.18
02 41 19 13-0281	IN 3/4" Diameter Drilling In Concrete Per Inch Of Depth.....	2.39
02 41 19 13-0282	IN 7/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.60
02 41 19 13-0283	IN 1" Diameter Drilling In Concrete Per Inch Of Depth.....	2.72
02 41 19 13-0284	IN 1-1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	3.01
02 41 19 13-0285	IN 1-1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	3.40
02 41 19 13-0286	Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0079)	
	Note: Includes layout.	
02 41 19 13-0287	IN 1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.52
02 41 19 13-0288	IN 3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.59
02 41 19 13-0289	IN 1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.71
02 41 19 13-0290	IN 5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.82
02 41 19 13-0291	IN 3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.99
02 41 19 13-0292	IN 7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.17
02 41 19 13-0293	IN 1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.27
02 41 19 13-0294	IN 1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.51
02 41 19 13-0295	IN 1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.99
02 41 19 13-0296	Drilling In Wood Or Plastic Per Inch Of Depth (02 41 19 13-0079)	
	Note: Includes layout.	
02 41 19 13-0297	IN 1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.76
02 41 19 13-0298	IN 3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.80
02 41 19 13-0299	IN 1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.85
02 41 19 13-0300	IN 5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.90
02 41 19 13-0301	IN 3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.99
02 41 19 13-0302	IN 7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.07
02 41 19 13-0303	IN 1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.12
02 41 19 13-0304	IN 1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.25
02 41 19 13-0305	IN 1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.44
02 41 19 13-0306	Limestone Core Drilling (02 41 19 13-0079)	
02 41 19 13-0307	10" To 14" Thick Limestone Core Drilling (02 41 19 13-0306)	
02 41 19 13-0308	EA Drill 1" Diameter Core In 10" To 14" Limestone.....	50.94
02 41 19 13-0309	EA Drill 1-1/2" Diameter Core In 10" To 14" Limestone.....	61.32
02 41 19 13-0310	EA Drill 2" Diameter Core In 10" To 14" Limestone.....	66.83
02 41 19 13-0311	EA Drill 3" Diameter Core In 10" To 14" Limestone.....	77.83
02 41 19 13-0312	EA Drill 4" Diameter Core In 10" To 14" Limestone.....	88.95
02 41 19 13-0313	EA Drill 6" Diameter Core In 10" To 14" Limestone.....	124.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0314 EA Drill 8" Diameter Core In 10" To 14" Limestone	205.44	
02 41 19 13-0315 15" To 18" Thick Limestone Core Drilling (02 41 19 13-0306)		
02 41 19 13-0316 EA Drill 1" Diameter Core In 15" To 18" Limestone	56.25	
02 41 19 13-0317 EA Drill 1-1/2" Diameter Core In 15" To 18" Limestone	66.77	
02 41 19 13-0318 EA Drill 2" Diameter Core In 15" To 18" Limestone	72.39	
02 41 19 13-0319 EA Drill 3" Diameter Core In 15" To 18" Limestone	78.75	
02 41 19 13-0320 EA Drill 4" Diameter Core In 15" To 18" Limestone	104.82	
02 41 19 13-0321 EA Drill 6" Diameter Core In 15" To 18" Limestone	135.77	
02 41 19 13-0322 EA Drill 8" Diameter Core In 15" To 18" Limestone	217.27	
02 41 19 13-0323 19" To 24" Thick Limestone Core Drilling (02 41 19 13-0306)		
02 41 19 13-0324 EA Drill 1" Diameter Core In 19" To 24" Limestone	61.49	
02 41 19 13-0325 EA Drill 1-1/2" Diameter Core In 19" To 24" Limestone	72.13	
02 41 19 13-0326 EA Drill 2" Diameter Core In 19" To 24" Limestone	77.87	
02 41 19 13-0327 EA Drill 3" Diameter Core In 19" To 24" Limestone	89.33	
02 41 19 13-0328 EA Drill 4" Diameter Core In 19" To 24" Limestone	125.45	
02 41 19 13-0329 EA Drill 6" Diameter Core In 19" To 24" Limestone	156.65	
02 41 19 13-0330 EA Drill 8" Diameter Core In 19" To 24" Limestone	233.84	
02 41 19 13-0331 Minimum Charge For Core Drilling (02 41 19 13-0079)		
02 41 19 13-0332 EA Core Drill Minimum Charge.....	623.73	
Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth".		
02 41 19 13-0333 Cutouts (02 41 19 13)		
Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.		
02 41 19 13-0334 Reinforced Concrete Slab On Grade Cutouts (02 41 19 13-0333)		
02 41 19 13-0335 SF 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	39.73	
02 41 19 13-0336 SF 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	42.15	
02 41 19 13-0337 SF 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	44.56	
02 41 19 13-0338 SF 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	46.96	
02 41 19 13-0339 SF 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	48.16	
02 41 19 13-0340 Reinforced Concrete Elevated Slab Cutouts (02 41 19 13-0333)		
Note: Includes cutting and removing steel decking.		
02 41 19 13-0341 SF 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	48.43	
02 41 19 13-0342 SF 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	51.36	
02 41 19 13-0343 SF 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	54.30	
02 41 19 13-0344 SF 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	57.24	
02 41 19 13-0345 SF 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	58.70	
02 41 19 13-0346 Reinforced Concrete Wall Cutouts (02 41 19 13-0333)		
02 41 19 13-0347 SF 4" Thick Reinforced Concrete Wall Cutouts, <24 SF	49.67	
02 41 19 13-0348 SF 6" Thick Reinforced Concrete Wall Cutouts, <24 SF	52.68	
02 41 19 13-0349 SF 8" Thick Reinforced Concrete Wall Cutouts, <24 SF	55.69	
02 41 19 13-0350 SF 10" Thick Reinforced Concrete Wall Cutouts, <24 SF	58.70	
02 41 19 13-0351 SF 12" Thick Reinforced Concrete Wall Cutouts, <24 SF	60.21	
02 41 19 13-0352 Brick Wall Cutouts (02 41 19 13-0333)		
Note: Excludes toothing.		
02 41 19 13-0353 SF 4" Thick Brick Wall Cutouts, <24 SF	15.05	
02 41 19 13-0354 SF 6" Thick Brick Wall Cutouts, <24 SF	24.84	
02 41 19 13-0355 SF 8" Thick Brick Wall Cutouts, <24 SF	34.59	
02 41 19 13-0356 SF 10" Thick Brick Wall Cutouts, <24 SF	42.15	
02 41 19 13-0357 SF 12" Thick Brick Wall Cutouts, <24 SF	50.42	
02 41 19 13-0358 SF 16" Thick Brick Wall Cutouts, <24 SF	59.46	
02 41 19 13-0359 Concrete Block Wall Cutouts (02 41 19 13-0333)		
Note: Excludes toothing.		
02 41 19 13-0360 SF 4" Thick Concrete Block Wall Cutouts, <24 SF	24.90	
02 41 19 13-0361 SF 6" Thick Concrete Block Wall Cutouts, <24 SF	26.36	
02 41 19 13-0362 SF 8" Thick Concrete Block Wall Cutouts, <24 SF	27.85	
02 41 19 13-0363 SF 10" Thick Concrete Block Wall Cutouts, <24 SF	29.36	
02 41 19 13-0364 SF 12" Thick Concrete Block Wall Cutouts, <24 SF	30.10	
02 41 19 13-0365 SF 16" Thick Concrete Block Wall Cutouts, <24 SF	31.61	
02 41 19 13-0366 Limestone Cutouts (02 41 19 13-0333)		
02 41 19 13-0367 SF 2" Thick Limestone Cutouts, <24 SF	42.15	

02 Existing Conditions**02 40 Demolition And Structure Moving****02 41 Demolition**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
02 41 19 13-0368	SF	4" Thick Limestone Cutouts, <24 SF.....	51.18	
02 41 19 13-0369	SF	6" Thick Limestone Cutouts, <24 SF.....	54.19	
02 41 19 13-0370	SF	8" Thick Limestone Cutouts, <24 SF.....	57.19	
02 41 19 13-0371	SF	10" Thick Limestone Cutouts, <24 SF.....	60.21	
02 41 19 13-0372	SF	12" Thick Limestone Cutouts, <24 SF.....	63.22	
02 41 19 13-0373		Toothing Masonry Cutouts (02 41 19 13-0333) Note: For use where existing masonry must be removed in a toothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.		
02 41 19 13-0374	VLF	Brick, Soft Old Mortar, Toothing Masonry Cutouts.....	15.05	
02 41 19 13-0375	VLF	Brick, Hard Mortar, Toothing Masonry Cutouts.....	20.32	
02 41 19 13-0376	VLF	Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts.....	9.03	
02 41 19 13-0377	VLF	Concrete Block, Hard Mortar, Toothing Masonry Cutouts.....	12.05	
02 41 19 13-0378		Minimum Charge For Cutouts (02 41 19 13-0333) Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0379	EA	Cutouts Minimum Charge.....	301.04	
02 43		Structure Moving (02 40)		
02 43 13		Structure Relocation (02 43) Note: Includes disconnection of utilities, moving of structure, one day move (excludes travel expenses and lodging), up to 24' wide. Reset on new foundations and hook up to utilities.		
02 43 13 13		Building Relocation (02 43 13)		
02 43 13 13-0001		Move Relocatable Structures (Trailer, Mobile Facilities, etc.), Complete (02 43 13) Note: Includes disconnect portable from foundation, separate relocatable unit and attachments as needed for transport, secure all relocatable attachments (awnings, steps, ramps, railing, etc.) for transport, transport relocatable and attachments to new location, including permits and police escort, connect to foundation per approved specifications/details, including welding and/or hurricane anchoring as needed.		
02 43 13 13-0002	SF	Up To 800 SF, Move Relocatable Metal Frame Building.....	28.58	
02 43 13 13-0003	SF	>800 To 920 SF, Move Relocatable Metal Frame Building.....	27.01	
02 43 13 13-0004	SF	>920 SF, Move Relocatable Metal Frame Building.....	25.28	
02 43 13 13-0005	SF	Up To 800 SF, Move Relocatable Wood Frame Building.....	22.93	
02 43 13 13-0006	SF	>800 To 920 SF, Move Relocatable Wood Frame Building.....	21.43	
02 43 13 13-0007	SF	>920 SF, Move Relocatable Wood Frame Building.....	18.97	
02 43 13 13-0008	SF	Up To 800 SF, Move Relocatable Wood/Metal Frame Building.....	27.78	
02 43 13 13-0009	SF	>800 To 920 SF, Move Relocatable Wood/Metal Frame Building.....	25.28	
02 43 13 13-0010	SF	>920 SF, Move Relocatable Wood/Metal Frame Building.....	21.43	
02 60		Contaminated Site Material Removal (02)		
02 61		Removal And Disposal Of Contaminated Soils (02 60)		
02 61 13		Excavation And Handling Of Contaminated Material (02 61) See CSI section 31 23 16 00-0000 for excavation.		
02 61 13 00-0001		Excavation Of Non-Petroleum Contaminated Soil (02 61 13) See CSI section 02 65 00 00-0001 for testing, 02 65 00 00-0006 for testing, 31 23 16 00-0000 for excavation of non-contaminated soil, 31 23 16 33-0019 for loading non-petroleum contaminated material onto trucks for removal.		
02 61 13 00-0002		Excavate Non-Petroleum Contaminated Soil (02 61 13 00-0001)		
02 61 13 00-0003	CY	Excavate Non Petroleum Contaminated Soil..... Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.	7.04	
02 61 13 00-0004	CY	Load Excavated Non-Petroleum Contaminated Soil.....	6.08	
02 61 13 00-0005	CY	Disposal Fees Of Non-Petroleum Contaminated Soil.....	38.20	
02 61 13 00-0006		Excavate Petroleum Contaminated Soil (02 61 13)		
02 61 13 00-0007	CY	Excavate Petroleum Contaminated Soil..... Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.	10.56	
02 61 13 00-0008	CY	Load Excavated Petroleum Contaminated Soil.....	6.08	
02 61 13 00-0009	CY	Disposal Fees Of Petroleum Contaminated Soil.....	61.20	
02 61 13 00-0010		Accessories For Contaminated Soil Stockpile (02 61 13) See CSI section 31 25 14 23-0001 for sand bags.		
02 61 13 00-0011	SF	30 Mil Liner For Contaminated Soil Storage..... Note: 9.93 SF of liner per 1 ton of petroleum contaminated soil.	1.03	
02 61 13 00-0012	SF	10 Mil Liner For Contaminated Soil Storage..... Note: 9.93 SF of liner per 1 ton of petroleum contaminated soil.	0.62	
02 61 26		Removal and Disposal of Asbestos Contaminated Soils (02 61)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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Note: Tasks include materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.

02 61 26 00-0001			Removal and Disposal of Asbestos Contaminated Soils (02 61 26)		
			Note: Tasks include materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.		
02 61 26 00-0002	EA		Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	783.26 234.98	
02 61 26 00-0003	CF		>10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	51.92 15.58	
02 61 26 00-0004	CF		>100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	34.62 10.39	
02 61 26 00-0005	CF		>250 To 500 CF, Asbestos Contaminated Asbestos Abatement And Disposal.....	26.00	
02 61 26 00-0006	CF		>500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	20.77 6.23	
02 61 26 00-0007	CF		>2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	17.66 5.30	
02 61 26 00-0008	CF		>10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	15.89 4.77	

02 62 Hazardous Waste Recovery Process (02 60)

02 62 16 Soil Vapor Extraction (02 62)

02 62 16 00-0001			Active And Passive Trench System (02 62 16)		
02 62 16 00-0002			Leachate And Gas Transfer Pipe (02 62 16 00-0001)		
02 62 16 00-0003			High Density Polyethylene Pipe, Laterals (02 62 16 00-0002)		
			Note: Heat fusion connections with pipe and fittings.		
02 62 16 00-0004	LF		3" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings.....	13.44	
02 62 16 00-0005	LF		4" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings.....	15.39	
02 62 16 00-0006	LF		6" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings.....	19.96	
02 62 16 00-0007	LF		8" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings.....	27.80	
02 62 16 00-0008	LF		10" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings.....	36.06	
02 62 16 00-0009	LF		12" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings.....	45.39	
02 62 16 00-0010	EA		Monitoring And Control Assembly.....	1,674.76	
02 62 16 00-0011	EA		3" Header Valve Assembly.....	749.17	
02 62 16 00-0012	EA		4" Header Valve Assembly.....	1,148.61	
02 62 16 00-0013	EA		6" Header Valve Assembly.....	1,680.77	
02 62 16 00-0014	EA		8" Header Valve Assembly.....	2,450.20	
02 62 16 00-0015	EA		Condensate Sump Assembly.....	16,217.05	
02 62 16 00-0016	EA		Header Monitoring Port Assembly.....	937.59	

02 62 16 00-0017 Chemical Resistant Sump And Manhole (02 62 16 00-0001)

02 62 16 00-0017			High Density Polyethylene Manholes (02 62 16 00-0017)		
02 62 16 00-0019	EA		27" Diameter Concrete Filled Polyethylene Lid Stainless Steel Handle.....	206.68	
02 62 16 00-0020	EA		4" Diameter, 2" High Riser Section With Or Without Steps.....	387.97	
02 62 16 00-0021	EA		3.25" High x 4" Diameter Upper Unit With Or Without Steps.....	698.36	
02 62 16 00-0022	EA		4.25" High x 4" Diameter Upper Unit With Or Without Steps.....	813.27	
02 62 16 00-0023	EA		3" High x 4" Diameter Manhole Base - No Outlets.....	702.70	
02 62 16 00-0024	EA		12" Inlet/Outlet - Factory Attached.....	200.40	
02 62 16 00-0025	EA		15" Inlet/Outlet - Factory Attached.....	309.06	
02 62 16 00-0026	EA		18" Inlet/Outlet - Factory Attached.....	342.16	
02 62 16 00-0027	EA		24" Inlet/Outlet - Factory Attached.....	404.57	
02 62 16 00-0028	EA		30" Inlet/Outlet - Factory Attached.....	461.60	
02 62 16 00-0029	EA		36" Inlet/Outlet - Factory Attached.....	541.76	
02 62 16 00-0030	EA		4" Inlet Gasket - To Attach Leachate Transport Pipe.....	9.49	
02 62 16 00-0031	EA		6" Inlet Gasket - To Attach Leachate Transport Pipe.....	12.67	
02 62 16 00-0032	EA		8" Inlet Gasket - To Attach Leachate Transport Pipe.....	15.83	
02 62 16 00-0033	EA		10" Inlet Gasket - To Attach Leachate Transport Pipe.....	23.72	
02 62 16 00-0034	EA		12" Inlet Gasket - To Attach Leachate Transport Pipe.....	30.06	
02 62 16 00-0035	EA		Additional Penetrations Into Manhole.....	189.54	

02 62 16 00-0036 High Density Polyethylene Sumps (02 62 16 00-0017)

02 62 16 00-0037	EA		42" Diameter Riser Sump With 30" Or 22-1/2" Diameter Neck.....	1,804.67	
02 62 16 00-0038	EA		2" Riser Sump Extension - 22-1/2" Or 30" Diameter.....	723.85	
02 62 16 00-0039	EA		48" Sump Base.....	419.66	
02 62 16 00-0040	EA		30" Sump Cover.....	309.09	

02 Existing Conditions**02 60 Contaminated Site Material Removal****02 62 Hazardous Waste Recovery Process**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 62 16 00-0041	EA		22" Sump Cover.....	285.40	
02 62 16 00-0042	EA		Riser Sump To Base Seal.....	285.40	
02 62 16 00-0043	EA		Riser Sump To Extension Seal.....	228.54	
02 62 16 00-0044	EA		2" Conduit Grommet - Box Of 6.....	493.65	
02 62 16 00-0045	EA		4" Conduit Grommet - Box Of 6.....	611.52	
02 62 16 00-0046	EA		6" Conduit Grommet - Box Of 6.....	724.32	
02 62 16 00-0047			Leachate And Gas Collection Pipe (02 62 16 00-0001)		
02 62 16 00-0048			Slotted Polyvinyl Chloride (PVC) (02 62 16 00-0047)		
			Note: Number of rows of slots, slot spacing and slot width can vary to give required outside diameter intake area. Slot width and spacing varies.		
02 62 16 00-0049	LF		2" Diameter, Schedule 40, 2 To 3 Rows Of Slots.....	7.00	
02 62 16 00-0050	LF		4" Diameter, Schedule 40, 2 To 4 Rows Of Slots.....	10.46	
02 62 16 00-0051	LF		6" Diameter, Schedule 40, 2 To 6 Rows Of Slots.....	15.02	
02 62 16 00-0052	LF		8" Diameter, Schedule 40, 2 To 6 Rows Of Slots.....	23.60	
02 62 16 00-0053	LF		10" Diameter, Schedule 40, 2 To 8 Rows Of Slots.....	34.01	
02 62 16 00-0054	LF		12" Diameter, Schedule 40, 2 To 10 Rows Of Slots.....	49.14	
02 62 16 00-0055			Sheet Drainage Systems (02 62 16)		
			Note: Made of 2 sets of parallel strands. Intersecting strands form two overlaid sets of continuous deep channels.		
02 62 16 00-0056			Drainage Nets And Composites (02 62 16 00-0055)		
02 62 16 00-0057			Polyethylene Drainage Nets (02 62 16 00-0056)		
02 62 16 00-0058	SF		Drainage Net - 1/4" Thick High Density Polyethylene.....	0.53	
02 62 16 00-0059	SF		Drainage Net With Geotextile Fabric Heat Bonded To One Side.....	1.72	
02 62 16 00-0060	SF		Drainage Net With Geotextile Fabric Heat Bonded To Both Sides.....	2.01	
02 62 16 00-0061			Gas Interception Networks (02 62 16)		
02 62 16 00-0062			Gas Treatment (02 62 16 00-0061)		
02 62 16 00-0063			Flares (02 62 16 00-0062)		
			Note: These are basic flare prices and exclude controls and auxiliary equipment. The basic price will be approximately 25% of the total cost of the unit complete with controls, auxiliary equipment, piping, setup, etc.		
02 62 16 00-0064	EA		2.25 Million BTU/Hour Landfill Flare.....	39,767.50	
02 62 16 00-0065	EA		7.5 Million BTU/Hour Landfill Flare.....	50,600.03	
02 62 16 00-0066	EA		10.5 Million BTU/Hour Landfill Flare.....	66,591.66	
02 62 16 00-0067	EA		22.5 Million BTU/Hour Landfill Flare.....	134,035.07	
02 62 16 00-0068	EA		30 Million BTU/Hour Landfill Flare.....	155,443.80	
02 62 16 00-0069	EA		36 Million BTU/Hour Landfill Flare.....	177,764.20	
02 62 16 00-0070			Gas Scrubbers (02 62 16 00-0061)		
02 62 16 00-0071			Single Stage Gas Scrubbers (02 62 16 00-0070)		
			Note: Unit is flange to flange, carbon steel construction. Includes ecosphere packing (HDPE), mist eliminator section, internal spray nozzle, access doors and differential pressure gauge.		
02 62 16 00-0072	EA		1,500 CFM Fluidized Bed Gas Scrubber - Single Stage.....	33,229.45	
02 62 16 00-0073	EA		4,400 CFM Fluidized Bed Gas Scrubber - Single Stage.....	45,421.73	
02 62 16 00-0074	EA		5,800 CFM Fluidized Bed Gas Scrubber - Single Stage.....	48,305.69	
02 62 16 00-0075	EA		7,700 CFM Fluidized Bed Gas Scrubber - Single Stage.....	52,182.28	
02 62 16 00-0076	EA		9,600 CFM Fluidized Bed Gas Scrubber - Single Stage.....	56,686.91	
02 62 16 00-0077	EA		12,000 CFM Fluidized Bed Gas Scrubber - Single Stage.....	60,351.58	
02 62 16 00-0078	EA		17,000 CFM Fluidized Bed Gas Scrubber - Single Stage.....	65,397.59	
02 62 16 00-0079	EA		23,600 CFM Fluidized Bed Gas Scrubber - Single Stage.....	70,408.85	
02 62 16 00-0080	EA		30,200 CFM Fluidized Bed Gas Scrubber - Single Stage.....	74,959.82	
02 62 16 00-0081	EA		38,700 CFM Fluidized Bed Gas Scrubber - Single Stage.....	85,037.18	
02 62 16 00-0082	EA		47,200 CFM Fluidized Bed Gas Scrubber - Single Stage.....	96,578.12	
02 62 16 00-0083	EA		58,000 CFM Fluidized Bed Gas Scrubber - Single Stage.....	104,325.09	
02 62 16 00-0084	EA		79,700 CFM Fluidized Bed Gas Scrubber - Single Stage.....	118,906.71	
02 62 16 00-0085	EA		90,900 CFM Fluidized Bed Gas Scrubber - Single Stage.....	125,058.20	
02 62 16 00-0086	EA		113,300 CFM Fluidized Bed Gas Scrubber - Single Stage.....	134,921.72	
02 62 16 00-0087	EA		3,000 CFM Fluidized Bed Gas Scrubber - Single Stage.....	42,421.31	
02 62 16 00-0088			Gas Collection (02 62 16 00-0061)		
02 62 16 00-0089			Vacuum Blowers (02 62 16 00-0088)		
			Note: Aluminum wheel with clean-out door, drain and plug. 60 Hertz, 230/460V, 3600 rpm, TEFC, 184T. As manufactured by New York Blower Fans.		
02 62 16 00-0090	EA		5 HP New York Blower, Pressure Blower Size 2204, Arrangement 4 3 Phase, 60 Hertz, 230/460 Volt, 3,600 rpm, TEFC, 184T.....	3,550.03	
			For Silencer Option, Add.....	360.00	
02 62 16 00-0091	EA		5 HP New York Blower, Pressure Blower Size 2206, Arrangement 4 3 Phase, 60 Hertz, 230/460 Volt, 3,600 rpm, TEFC, 184T.....	3,560.36	
			For Silencer Option, Add.....	386.00	
02 62 16 00-0092	EA		5 HP New York Blower, Pressure Blower Size 2606, Arrangement 4 3 Phase, 60 Hertz, 230/460 Volt, 3,600 rpm, TEFC, 184T.....	3,947.04	
			For Silencer Option, Add.....	420.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 62 16 00-0093

Vacuum Blowers And Compressors (02 62 16 00-0088)

Note: Heavy duty rotary blowers packaged with silencer, filter, drive and motor. Unit is mounted and interconnected all on the same base.

02 62 16 00-0094	EA	Positive Displacement Blower, 4.9 Max. HP, 48 CFM	5,392.37
02 62 16 00-0095	EA	Positive Displacement Blower, 5.6 Max. HP, 111 CFM	5,915.46
02 62 16 00-0096	EA	Positive Displacement Blower, 12.2 Max. HP, 143 CFM	6,769.69
02 62 16 00-0097	EA	Positive Displacement Blower, 11.8 Max. HP, 271 CFM	7,066.00
02 62 16 00-0098	EA	Positive Displacement Blower, 15 Max. HP, 134 CFM	6,574.78
02 62 16 00-0099	EA	Positive Displacement Blower, 19.7 Max. HP, 278 CFM	7,573.01
02 62 16 00-0100	EA	Positive Displacement Blower, 18.3 Max. HP, 399 CFM	8,205.60
02 62 16 00-0101	EA	Positive Displacement Blower, 254 Max. HP, 247 CFM	9,236.99
02 62 16 00-0102	EA	Positive Displacement Blower, 28.3 Max. HP, 427 CFM	11,154.48
02 62 16 00-0103	EA	Positive Displacement Blower, 29 Max. HP, 665 CFM	11,345.59
02 62 16 00-0104	EA	Positive Displacement Blower, 38.8 Max. HP, 393 CFM	12,338.23
02 62 16 00-0105	EA	Positive Displacement Blower, 49.6 Max. HP, 615 CFM	16,005.77
02 62 16 00-0106	EA	Positive Displacement Blower, 46.5 Max. HP, 1,248 CFM	17,783.88
02 62 16 00-0107	EA	Positive Displacement Blower, 55 Max. HP, 574 CFM	18,482.01
02 62 16 00-0108	EA	Positive Displacement Blower, 67.1 Max. HP, 1,071 CFM	21,887.08
02 62 16 00-0109	EA	Positive Displacement Blower, 65.5 Max. HP, 1,878 CFM	24,806.79

02 62 16 00-0110

Fugitive Dust, Vapor And Gas Emissions Control (02 62 16)

02 62 16 00-0111

Sprayed Dust Suppressants (02 62 16 00-0110)

Note: Overall dust suppression reflects treatment of unpaved haul roads and parking lots and similar surfaces. Overall erosion control reflects stabilizing road shoulders and slopes. Excludes water costs.

02 62 16 00-0112	SY	Overall Dust Suppression And Erosion Control, Tree Sap Based Sprayed Dust Suppressant	3.35
02 62 16 00-0113	SY	Erosion Control For Landfill Cap	3.50
02 62 16 00-0114	SY	Stockpile Dust Suppression Tree Sap Based Dust Suppressant	3.50
02 62 16 00-0115	SY	Periodic Maintenance Application Tree Sap Based Sprayed Dust Suppressant	3.19
02 62 16 00-0116	SY	Overall Dust Suppression And Erosion Control, Chloride Based Sprayed Dust Suppressant	3.39
02 62 16 00-0117	SY	Erosion Control For Landfill Cap Chloride Based Sprayed Dust Suppressant	3.73
02 62 16 00-0118	SY	Stockpile Dust Suppression, Chloride Based Sprayed Dust Suppressant	3.55
02 62 16 00-0119	SY	Periodic Maintenance Application Chloride Based Sprayed Dust Suppressant	3.22
02 62 16 00-0120	SY	Overall Dust Suppression And Erosion Control, Oil Emulsion Sprayed Dust Suppressant	3.63
02 62 16 00-0121	SY	Erosion Control For Landfill Cap	4.26
02 62 16 00-0122	SY	Stockpile Dust Suppression, Oil Emulsion Sprayed Dust Suppressant	3.93
02 62 16 00-0123	SY	Periodic Maintenance Application Oil Emulsion Sprayed Dust Suppressant	3.32
02 62 16 00-0124	SY	Overall Dust Suppression And Erosion Control, Asphalt Emulsion Sprayed Dust Suppressant	4.01
02 62 16 00-0125	SY	Erosion Control For Landfill Cap Asphalt Emulsion Sprayed Dust Suppressant	4.71
02 62 16 00-0126	SY	Stockpile Dust Suppression, Asphalt Emulsion Sprayed Dust Suppressant	4.34
02 62 16 00-0127	SY	Periodic Maintenance Application Asphalt Emulsion Sprayed Dust Suppressant	3.68
02 62 16 00-0128	SY	Overall Dust Suppression And Erosion Control, Lignosulphonate Sprayed Dust Suppressant	3.36
02 62 16 00-0129	SY	Erosion Control For Landfill Cap Lignosulphonate Sprayed Dust Suppressant	3.69
02 62 16 00-0130	SY	Stockpile Dust Suppression, Lignosulphonate Sprayed Dust Suppressant	3.52
02 62 16 00-0131	SY	Periodic Maintenance Application Lignosulphonate Sprayed Dust Suppressant	3.22

02 62 16 00-0132

Synthetic Covers Over Waste Piles (02 62 16 00-0110)

02 62 16 00-0133

Plastic Waste Pile Covers (02 62 16 00-0132)

02 62 16 00-0134	SF	Plastic Laminate Waste Pile Cover, 130 LB Tear Strength, 1 To 1-1/2 Year Outdoor Life Expectancy	0.22
02 62 16 00-0135	SF	Plastic Laminate Waste Pile Cover, 185 LB Tear Strength, 3 To 4 Year Outdoor Life Expectancy	0.52
02 62 16 00-0136	SF	Plastic Laminate Waste Pile Cover, 250 LB Tear Strength, 4 To 5 Year Outdoor Life Expectancy	0.69
02 62 16 00-0137	LF	Add For Cover Drawstring	0.78
02 62 16 00-0138	EA	Add For Metal Grommets Used With Tie-downs	0.82
02 62 16 00-0139	SF	Plastic Laminate Waste Pile Cover, 135 LB Tear Strength, 2 To 2-1/2 Year Outdoor Life Expectancy	0.31

02 65 Underground Storage Tank Removal (02 60)

Note: Petroleum gasoline is classified as a hazardous material; fuel oil is considered a non-hazardous material. See CSI section 01 74 19 00-0051 for hauling, 31 20 00 00-0000 for non-contaminated soil excavation, 31 23 16 00-0000 for excavation, 31 41 00 00-0000 for shoring.

02 65 00 00-0001

Monitoring, Sampling, Testing And Analysis (02 65)

02 65 00 00-0002

Field Samples For Testing Underground Storage Tank (02 65 00 00-0001)

02 65 00 00-0003	EA	Collection Of Sludge Sample For Underground Storage Tank	25.26
02 65 00 00-0004	EA	Collection Of Pumpable Liquids Sample For Underground Storage Tank	25.26
02 65 00 00-0005	EA	Collection Of Contaminated Soil Sample	25.26

02 65 00 00-0006

Lab Tests For Underground Storage Tank Removal (02 65 00 00-0001)

Note: Includes lab test fees, reports, shipping, handling, chain of custody documents and disposal of sample.

02 65 00 00-0007	EA	Lab Test - Benzene, Toluene, Ethylbenzene, Xylene 8020	111.67
Note: The cost is for the in-lab test for Benzene, Toluene, Ethylbenzene, And Xylene using procedure 8020 as detailed in EPA SW-846.			
02 65 00 00-0008	EA	Lab Test - Flashpoint	43.43
Note: The cost is for the in-lab test for the flashpoint using procedure 40CFR 261.21 as detailed in EPA SW-846.			

02 Existing Conditions**02 60 Contaminated Site Material Removal****02 65 Underground Storage Tank Removal**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0009 EA Lab Test - TOX 9020 .....104.46 Note: The cost is for the in-lab test for total organic halides using procedure 9020 as detailed in EPA SW-846.	104.46	
02 65 00 00-0010 EA Lab Test - TPH 8015 Modified .....111.67 Note: The cost is for the in-lab test for total petroleum hydrocarbons by gas chromatography using procedure 8015 Mod. as detailed in EPA SW-846.	111.67	
02 65 00 00-0011 EA Lab Test - TRPH 418.1 .....86.86 Note: The cost is for the in-lab test for total recoverable petroleum hydrocarbons using procedure 418.1 as detailed in EPA SW-846.	86.86	
02 65 00 00-0012 EA Lab Test - VOC .....235.75 Note: The cost is for the in-lab test for volatile organics using procedure 8240 as detailed in EPA SW-846.	235.75	
02 65 00 00-0013 EA Lab Test - Semi-Volatile Organic .....434.28 Note: The cost is for the in-lab test for semi-volatile organics using procedure 8270 as detailed in EPA SW-846.	434.28	
02 65 00 00-0014 EA Lab Test - Oil And Grease 413.1 .....52.23 Note: The cost is for the in-lab test for oil and grease using procedure 413.1 as detailed in EPA SW-846.	52.23	
02 65 00 00-0015 EA Lab Test - TCLP (Extraction) - Metals .....93.06 Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.	93.06	
02 65 00 00-0016 EA Lab Test - TCLP (Extraction) - Semi-Volatile Organic .....124.08 Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.	124.08	
02 65 00 00-0017 EA Lab Test - Metals 6010 RCRA .....138.97 Note: The cost is for the in-lab test for metals using procedure 6010 RCRA as detailed in EPA SW-846.	138.97	
02 65 00 00-0018 EA Lab Test - Metals (Arsenic) 7060 .....18.61 Note: The cost is for the in-lab test for the metal arsenic using procedure 7060 as detailed in EPA SW-846.	18.61	
02 65 00 00-0019 EA Lab Test - Metals (Selenium) 7740 .....18.61 Note: The cost is for the in-lab test for the metal selenium (SE) using procedure 7740 as detailed in EPA SW-846.	18.61	
02 65 00 00-0020 EA Lab Test - Metals (Lead) 7421 .....18.61 Note: The cost is for the in-lab test for the metal lead using procedure 7421 as detailed in EPA SW-846.	18.61	
02 65 00 00-0021 EA Lab Test - Metals (Mercury) 7470 .....34.74 Note: The cost is for the in-lab test for the metal mercury using procedure 7470 as detailed in EPA SW-846.	34.74	
02 65 00 00-0022 EA Lab Test - PNA/PAH 8100 .....198.53 Note: The cost is for the in-lab test for polynuclear aromatic hydrocarbons using procedure 8100 as detailed in EPA SW-846.	198.53	
02 65 00 00-0023 EA Lab Test - Fuel Id ASTM D3328-78 .....71.82 Note: The cost is for the in-lab test to determine the constituents of fuel using the procedure as detailed in ASTM D3328-78.	71.82	
02 65 00 00-0024 EA Lab Test - pH .....14.89	14.89	
02 65 00 00-0025 EA Lab Test - Polychlorinated Biphenyl (PCB) In Wastewater .....186.12	186.12	
02 65 00 00-0026 EA Lab Test - Methyl Tertiary Butyl Ether (MTBE) .....111.67	111.67	
02 65 00 00-0027 Tests, Surveys And Maintenance For Underground Storage Tank (02 65 00 00-0001)		
02 65 00 00-0028 EA Site Survey For AST/UST Location By Certified Tank Installer .....985.58 Note: Includes testing Pump output both tank and dispenser, Calibrate pump dispenser if needed, Check all sumps both tank and dispenser, check all fitting connections for leaks and check wiring connection for possible malfunction or safety hazard, check seals on caps for fill tube, check overflow performance for safety shutdown, check all hoses and pump handle, check break-away couplings, complete written report on all data found.	985.58	
02 65 00 00-0029 EA Check Cathodic Protection - Impressed Current Systems And Sacrificial Anode Systems .....153.27 Note: By Certified Technician. Write report of findings for action if needed	153.27	
02 65 00 00-0030 EA Check And Report On Monitor Probes .....36.31 Note: By Certified Technician	36.31	
02 65 00 00-0031 EA Tank Monitoring System: Check System Per Manufacturer's Specification By Certified Technician With Written Report .....266.35 Note: Including pass / fail; paper feed operational paper installed etc.; and status of inspection repairs needed etc.	266.35	
02 65 00 00-0032 EA Replace Anode On Impressed System .....106.20	106.20	
02 65 00 00-0033 EA Replace Power Converter On Impressed System On Underground Storage Tank .....153.51	153.51	
02 65 00 00-0034 EA Replace Monitor Probes On Underground Storage Tank .....219.94	219.94	
02 65 00 00-0035 EA Ultrasonic Test On Underground Storage Tank .....74.24	74.24	
02 65 00 00-0036 Tests And Sampling Labor Hours (02 65 00 00-0001)		
02 65 00 00-0037 HR Certified Tank Installer For Underground Storage Tank .....90.28	90.28	
02 65 00 00-0038 HR Certified Geologist/Environmentalist .....113.18	113.18	
02 65 00 00-0039 HR Hourly Office Work For Reports Required For EPA On Underground Storage Tank .....117.99 Note: Includes title searches, well survey data, site drawings, submitting preliminary work, etc. Hours not to be used in association with other tasks performed.	117.99	
02 65 00 00-0040 Remove Tank Contents (02 65)		
02 65 00 00-0041 Transfer Liquid (02 65 00 00-0040)		
Note: For use to transfer liquids from one tank to another.		
02 65 00 00-0042 GAL Transfer Reusable Liquid To Different Tank .....0.58 Note: Per gallon of material transferred.	0.58	
02 65 00 00-0043 Pump Contaminated Liquids And Rinse Material (02 65 00 00-0040)		
02 65 00 00-0044 GAL Removal and Disposal Of Hazardous Liquids From Tank .....1.29	1.29	
02 65 00 00-0045 GAL Removal and Disposal Of Non Hazardous Liquid From Tank .....0.91	0.91	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0046				Sludge (02 65 00 00-0040) Note: Includes scraping and solidifying agent.		
02 65 00 00-0047			GAL	Removal and Disposal Of Hazardous Solids Or Sludge From Tank.....	5.18	
02 65 00 00-0048			GAL	Removal and Disposal Of Non Hazardous Solids Or Sludge From Tank	1.19	
02 65 00 00-0049				Purge Vapors, Open And Clean Tank (02 65)		
02 65 00 00-0050				Purge Vapors (02 65 00 00-0049)		
02 65 00 00-0051			LB	Purge Tank Using Dry Ice..... Note: Approximately 1.5 To 3.0 LBS of dry ice per 100 Gals of tank volume.	3.20	
02 65 00 00-0052				High Pressure Water Wash And Rinse Of Tank Interior (02 65 00 00-0049)		
02 65 00 00-0053			EA	Up To 275 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	245.86	
02 65 00 00-0054			EA	>275 To 550 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	316.11	
02 65 00 00-0055			EA	>550 To 1,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	400.40	
02 65 00 00-0056			EA	>1,000 To 2,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	519.83	
02 65 00 00-0057			EA	>2,000 To 5,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	969.39	
02 65 00 00-0058			EA	>5,000 To 6,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	1,166.09	
02 65 00 00-0059			EA	>6,000 To 8,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	1,299.56	
02 65 00 00-0060			EA	>8,000 To 10,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	1,559.47	
02 65 00 00-0061			EA	>10,000 To 15,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	1,938.80	
02 65 00 00-0062			EA	>15,000 To 20,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	2,332.18	
02 65 00 00-0063			EA	>20,000 To 30,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	2,915.22	
02 65 00 00-0064			EA	>30,000 To 40,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	3,644.37	
02 65 00 00-0065			EA	>40,000 To 50,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	4,554.76	
02 65 00 00-0066				Scrape Clean Tank Exterior (02 65 00 00-0049)		
02 65 00 00-0067			EA	Up To 275 Gallon Tank, Scrape Clean Tank Exterior.....	193.42	
02 65 00 00-0068			EA	>275 To 550 Gallon Tank, Scrape Clean Tank Exterior	257.56	
02 65 00 00-0069			EA	>550 To 1,000 Gallon Tank, Scrape Clean Tank Exterior	337.49	
02 65 00 00-0070			EA	>1,000 To 2,000 Gallon Tank, Scrape Clean Tank Exterior	467.36	
02 65 00 00-0071			EA	>2,000 To 5,000 Gallon Tank, Scrape Clean Tank Exterior	1,034.97	
02 65 00 00-0072			EA	>5,000 To 6,000 Gallon Tank, Scrape Clean Tank Exterior	1,310.49	
02 65 00 00-0073			EA	>6,000 To 8,000 Gallon Tank, Scrape Clean Tank Exterior	1,533.51	
02 65 00 00-0074			EA	>8,000 To 10,000 Gallon Tank, Scrape Clean Tank Exterior	1,927.85	
02 65 00 00-0075			EA	>10,000 To 15,000 Gallon Tank, Scrape Clean Tank Exterior	2,505.73	
02 65 00 00-0076			EA	>15,000 To 20,000 Gallon Tank, Scrape Clean Tank Exterior	3,145.18	
02 65 00 00-0077			EA	>20,000 To 30,000 Gallon Tank, Scrape Clean Tank Exterior	4,095.29	
02 65 00 00-0078			EA	>30,000 To 40,000 Gallon Tank, Scrape Clean Tank Exterior	4,914.34	
02 65 00 00-0079			EA	>40,000 To 50,000 Gallon Tank, Scrape Clean Tank Exterior	6,142.93	
02 65 00 00-0080				Tank And Piping Removal (02 65) Note: Excludes excavation. See CSI section 02 61 13 00-0001 for excavation.		
02 65 00 00-0081				Removal And Disposal Of Piping (02 65 00 00-0080) Note: Includes removal, inspection, loading, transporting pipe to disposal facility or transfer station within 15 miles and disposal fees.		
02 65 00 00-0082			LF	Up To 4", Removal And Disposal Of Piping.....	15.33	
02 65 00 00-0083			LF	>4" To 8", Removal And Disposal Of Piping.....	20.44	
02 65 00 00-0084				Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement (02 65 00 00-0080) Note: Excludes excavation or backfill.		
02 65 00 00-0085			EA	Up To 275 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	532.79	
02 65 00 00-0086			EA	>275 To 550 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	646.96	
02 65 00 00-0087			EA	>550 To 1,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	761.13	
02 65 00 00-0088			EA	>1,000 To 2,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	951.42	
02 65 00 00-0089			EA	>2,000 To 5,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	1,331.97	
02 65 00 00-0090			EA	>5,000 To 6,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	1,674.48	
02 65 00 00-0091			EA	>6,000 To 8,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	1,902.82	
02 65 00 00-0092			EA	>8,000 To 10,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	2,283.39	
02 65 00 00-0093			EA	>10,000 To 15,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	3,044.51	
02 65 00 00-0094			EA	>15,000 To 20,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	3,649.70	
02 65 00 00-0095			EA	>20,000 To 30,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	4,276.70	
02 65 00 00-0096			EA	>30,000 To 40,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	5,003.37	
02 65 00 00-0097			EA	>40,000 To 50,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	6,254.21	
02 65 00 00-0098				Cut Tank Into Sections That Can Easily Be Transported And Disposed Of When Necessary (02 65 00 00-0080) Note: Includes 1 lengthwise at every 4' O.C. height wise.		
02 65 00 00-0099			EA	>1,000 To 2,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	650.85	
02 65 00 00-0100			EA	>2,000 To 5,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,213.74	
02 65 00 00-0101			EA	>5,000 To 6,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,460.01	
02 65 00 00-0102			EA	>6,000 To 8,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,627.13	

02 Existing Conditions**02 60 Contaminated Site Material Removal****02 65 Underground Storage Tank Removal**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0103	EA		>8,000 To 10,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,952.55	
02 65 00 00-0104	EA		>10,000 to 15,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of.....	2,427.49	
02 65 00 00-0105	EA		>15,000 to 20,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of.....	2,920.02	
02 65 00 00-0106	EA		>20,000 To 30,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	3,650.03	
02 65 00 00-0107	EA		>30,000 To 40,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	4,562.55	
02 65 00 00-0108	EA		>40,000 To 50,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	5,703.18	
02 65 00 00-0109			Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station (02 65 00 00-0080)		
			Note: Includes disposal fee.		
02 65 00 00-0110	EA		Up To 275 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	242.30	
			For Each Additional Mile >15 Miles, Add	3.59	
02 65 00 00-0111	EA		>275 To 550 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	329.41	
			For Each Additional Mile >15 Miles, Add	4.54	
02 65 00 00-0112	EA		>550 To 1,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	518.77	
			For Each Additional Mile >15 Miles, Add	6.81	
02 65 00 00-0113	EA		>1,000 To 2,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	810.61	
			For Each Additional Mile >15 Miles, Add	7.94	
02 65 00 00-0114	EA		>2,000 To 5,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	1,430.55	
			For Each Additional Mile >15 Miles, Add	13.99	
02 65 00 00-0115	EA		>5,000 To 6,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	1,475.94	
			For Each Additional Mile >15 Miles, Add	15.13	
02 65 00 00-0116	EA		>6,000 To 8,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	1,551.58	
			For Each Additional Mile >15 Miles, Add	17.02	
02 65 00 00-0117	EA		>8,000 To 10,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	2,254.99	
			For Each Additional Mile >15 Miles, Add	22.69	
02 65 00 00-0118	EA		>10,000 To 15,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	3,086.72	
			For Each Additional Mile >15 Miles, Add	34.04	
02 65 00 00-0119	EA		>15,000 To 20,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	3,615.90	
			For Each Additional Mile >15 Miles, Add	37.82	
02 65 00 00-0120	EA		>20,000 To 30,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	4,477.10	
			For Each Additional Mile >15 Miles, Add	45.38	
02 65 00 00-0121	EA		>30,000 To 40,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	6,286.05	
			For Each Additional Mile >15 Miles, Add	54.46	
02 65 00 00-0122	EA		>40,000 To 50,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	7,598.66	
			For Each Additional Mile >15 Miles, Add	62.63	
02 65 00 00-0123			Other Storage Tank Removals (02 65 00 00-0080)		
02 65 00 00-0124	GAL		Removal Of Cement Lining.....	0.46	
02 65 00 00-0125	GAL		Sandblast Tank In Prep For Lining Or Welding; Remove Sand, Vacuum Walls And Seams.....	0.17	
02 65 00 00-0126	GAL		Install Epoxy For Interior Corrosion Protection	0.89	
02 65 00 00-0127			Tank Closure Report (02 65 00 00-0080)		
			Note: Excludes soils tests. See CSI section 02 65 00 00-0006 for soil tests.		
02 65 00 00-0128	EA		Prepare Tank Closure Report.....	2,463.96	
02 65 00 00-0129			Temporary Tanks (02 65)		
02 65 00 00-0130			Temporary Holding Tanks (02 65 00 00-0129)		
02 65 00 00-0131			Above Ground Temporary Holding Tanks, Monthly Rental (02 65 00 00-0130)		
02 65 00 00-0132	MO		550 Gallon, Stainless Steel, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental	516.30	
02 65 00 00-0133	MO		630 Gallon, Polyethylene, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental	516.30	
02 65 00 00-0134	MO		630 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental	1,032.60	
02 65 00 00-0135	MO		4,000 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental	774.45	
02 65 00 00-0136	MO		4,000 Gallon, Polyethylene, Trailer Mounted, Above Ground Temporary Holding Tanks, Monthly Rental	1,807.05	
02 65 00 00-0137	MO		6,000 Gallon, Polyethylene, Total Drain, Above Ground Temporary Holding Tanks, Monthly Rental.....	1,290.75	
02 65 00 00-0138	MO		21,000 Gallon (500 BBL), Steel, Open, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental.....	3,029.18	
02 65 00 00-0139	MO		21,000 Gallon (500 BBL), Steel, Closed, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental	3,630.21	
02 65 00 00-0140	MO		21,000 Gallon (500 BBL), Steel, Vapor Proof, Above Ground Temporary Holding Tanks, Monthly Rental	6,130.49	
02 65 00 00-0141			Secondary Containment Berm (02 65 00 00-0129)		
02 65 00 00-0142	MO		Secondary Containment Berm Monthly Rental	1,118.65	
02 80 Facility Remediation (02)					
02 81 Transportation And Disposal Of Hazardous Materials (02 80)					
02 81 00 00-0001			Hazardous Material Disposal (02 81)		
02 81 00 00-0002	EA		RCRA (Direct Landfill) Drums	273.74	
			Note: Excludes stabilization. See CSI section 02 81 00 00-0003 for Stabilization (>5 ppm).		
02 81 00 00-0003	EA		Stabilization (>5 ppm).....	364.76	
02 81 00 00-0004	TON		Bulk Hazardous Material Landfill Cost	230.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 81 00 00-0005	Equipment Oil Drain And Disposal <small>(02 81)</small>	
02 81 00 00-0006	TRIP Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site.....	363.26
	Note: Excludes Disposal Cost.	
02 81 00 00-0007	DRM Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum.....	57.08
	Note: Excludes draining, placing in approved container, and transporting to disposal site.	
02 81 00 00-0008	DRM Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum.....	259.48
	Note: Excludes draining, placing in approved container, and transporting to disposal site.	
02 81 00 00-0009	DRM Disposal Of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum.....	467.06
	Note: Excludes draining, placing in approved container, and transporting to disposal site.	
02 81 00 00-0010	CF Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site.....	62.18
	Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.	

02 82 Asbestos Remediation (02 80)

Note: Tasks include materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, lockdown encapsulant applied to surfaces, clean-up, vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. This does not apply to glove bag projects. See CSI section 01 56 16 00-0033 for temporary stud walls, 01 74 19 00-0051 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0007 for plastic sheeting for containment construction, 02 89 00 00-0014 for decontamination chambers.

02 82 13 Asbestos Abatement (02 82)

02 82 13 00-0001	Air Monitoring And Bulk Sampling, Asbestos Testing <small>(02 82 13)</small>	
	Note: Testing tasks include packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.	
02 82 13 00-0002	HR Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring.....	63.03
02 82 13 00-0003	EA 48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing.....	33.73
02 82 13 00-0004	EA Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing.....	39.54
02 82 13 00-0005	EA Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing.....	62.80
02 82 13 00-0006	EA 48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing.....	108.16
02 82 13 00-0007	EA Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing.....	131.42
02 82 13 00-0008	EA 48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing.....	26.75
02 82 13 00-0009	EA Next Day Turnaround, (Air) PCM Test, Asbestos Testing.....	32.56
02 82 13 00-0010	EA Same Day Turnaround, (Air) PCM Test, Asbestos Testing.....	44.19
02 82 13 00-0011	EA 48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test.....	33.73
02 82 13 00-0012	EA Next Day Turnaround, (Air Point Counting) PLM Test.....	39.54
02 82 13 00-0013	EA Same Day Turnaround, (Air Point Counting) PLM Test.....	62.80
02 82 13 00-0014	EA 48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing.....	108.16
02 82 13 00-0015	EA Next Day Turnaround, (Air) TEM Test, Asbestos Testing.....	124.44
02 82 13 00-0016	EA Same Day Turnaround, (Air) TEM Test, Asbestos Testing.....	173.29

02 82 16 Engineering Control of Asbestos Containing Materials (02 82)

02 82 16 00-0001	Asbestos Encapsulation (Lock-Down) <small>(02 82 16)</small>	
02 82 16 00-0002	SF Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat.....	1.17
02 82 16 00-0003	SF Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound).....	1.56
02 82 16 00-0004	SF Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®).....	1.61
02 82 16 00-0005	SF Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®).....	1.82
02 82 16 00-0006	SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®).....	5.18
02 82 16 00-0007	SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®).....	5.79

02 82 33 Removal and Disposal of Asbestos Containing Materials (02 82)

02 82 33 00-0001	Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal <small>(02 82 33)</small>	
02 82 33 00-0002	Pipe Insulation, Asbestos Abatement And Disposal <small>(02 82 33 00-0001)</small>	
	Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.	
02 82 33 00-0003	Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal <small>(02 82 33 00-0002)</small>	
	See CSI section 02 82 33 00-0017 for projects with less than 10 LF.	
02 82 33 00-0004	SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	529.24
	For Work In Restricted Working Space, Add	156.65
02 82 33 00-0005	LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	27.06
	For Work In Restricted Working Space, Add	8.01
02 82 33 00-0006	LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	20.38
	For Work In Restricted Working Space, Add	6.01
02 82 33 00-0007	LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	15.37
	For Work In Restricted Working Space, Add	4.51
02 82 33 00-0008	LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	11.62
	For Work In Restricted Working Space, Add	3.38

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0009 LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	10.15	2.94
02 82 33 00-0010 >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) See CSI section 02 82 33 00-0017 for projects with less than 10 LF.		
02 82 33 00-0011 SET Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	550.47	156.65
02 82 33 00-0012 LF >20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	32.12	9.21
02 82 33 00-0013 LF >250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	24.44	6.91
02 82 33 00-0014 LF >500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	18.68	5.18
02 82 33 00-0015 LF >2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	14.36	3.89
02 82 33 00-0016 LF >10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	12.68	3.38
02 82 33 00-0017 Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.		
02 82 33 00-0018 SET Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	382.42	113.45
02 82 33 00-0019 LF >3 To 20 LF Additional Glove Bag Work for Pipe Insulation <i>For Work In Restricted Working Space, Add</i>	85.44	25.21
02 82 33 00-0020 LF >20 To 250 LF Additional Glove Bag Work for Pipe Insulation <i>For Work In Restricted Working Space, Add</i>	34.04	9.79
02 82 33 00-0021 LF >250 To 500 LF Additional Glove Bag Work for Pipe Insulation <i>For Work In Restricted Working Space, Add</i>	25.88	7.34
02 82 33 00-0022 LF >500 LF Additional Glove Bag Work for Pipe Insulation <i>For Work In Restricted Working Space, Add</i>	19.76	5.51
02 82 33 00-0023 Thermal Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0024 Calcium Block Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0025 SET Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	529.24	
02 82 33 00-0026 SF >10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	32.63	
02 82 33 00-0027 SF >500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	26.95	
02 82 33 00-0028 SF >2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	21.69	
02 82 33 00-0029 SF >10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	17.75	
02 82 33 00-0030 Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal (02 82 33 00- 0023)		
02 82 33 00-0031 SET Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	525.71	
02 82 33 00-0032 SF >10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	28.62	
02 82 33 00-0033 SF >500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	22.95	
02 82 33 00-0034 SF >2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	17.69	
02 82 33 00-0035 SF >10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	13.74	
02 82 33 00-0036 Fibrous Glass Board Insulation, Asbestos Abatement And Disposal (02 82 33 00- 0023)		
02 82 33 00-0037 SET Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	524.53	
02 82 33 00-0038 SF >10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	25.38	
02 82 33 00-0039 SF >500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	19.71	
02 82 33 00-0040 SF >2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	14.43	
02 82 33 00-0041 SF >10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	10.49	
02 82 33 00-0042 Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal (02 82 33 00-0023) Note: e.g., duct, boiler, tank, etc.		
02 82 33 00-0043 SET Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	531.01	
02 82 33 00-0044 SF >25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	27.06	
02 82 33 00-0045 SF >500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	21.38	
02 82 33 00-0046 SF >2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	16.12	
02 82 33 00-0047 SF >10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	12.18	
02 82 33 00-0048 Surfacing Material, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0049 Fireproofing For Small Areas, Asbestos Abatement And Disposal (02 82 33 00-0048) Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0051 for areas > 1 SF see CSI section.		
02 82 33 00-0050 EA Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal..... Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.	130.90	



Existing Conditions	02	
Facility Remediation	02 80	02
Asbestos Remediation	02 82	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0051 Fireproofing, Asbestos Abatement And Disposal <small>(02 82 33 00-0048)</small>		
Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0052 SET Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal	531.01	
02 82 33 00-0053 SF >25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal	32.38	
02 82 33 00-0054 SF >500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal	24.37	
02 82 33 00-0055 SF >2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal	18.36	
02 82 33 00-0056 SF >10,000 SF, Fireproofing, Asbestos Abatement And Disposal	13.86	
02 82 33 00-0057 Acoustical Plaster, Asbestos Abatement And Disposal <small>(02 82 33 00-0048)</small>		
Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0058 SET Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal	528.07	
02 82 33 00-0059 SF >25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal	13.62	
02 82 33 00-0060 SF >500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal	10.36	
02 82 33 00-0061 SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal	7.74	
02 82 33 00-0062 SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal	5.79	
02 82 33 00-0063 Plywood, Asbestos Abatement And Disposal <small>(02 82 33 00-0048)</small>		
02 82 33 00-0064 SET Up To 40 SF, Plywood, Asbestos Abatement And Disposal	531.60	
02 82 33 00-0065 SF >50 To 500 SF, Plywood, Asbestos Abatement And Disposal	11.34	
02 82 33 00-0066 SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal	5.58	
02 82 33 00-0067 SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal	3.84	
02 82 33 00-0068 SF >10,000 SF, Plywood, Asbestos Abatement And Disposal	3.31	
02 82 33 00-0069 Asbestos-Cement Products, Asbestos Abatement And Disposal <small>(02 82 33)</small>		
02 82 33 00-0070 Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal <small>(02 82 33 00-0069)</small>		
02 82 33 00-0071 SET Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	533.96	
02 82 33 00-0072 SF >100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	4.75	
02 82 33 00-0073 SF >500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	2.49	
02 82 33 00-0074 SF >2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	2.02	
02 82 33 00-0075 SF >10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	1.77	
02 82 33 00-0076 Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal <small>(02 82 33 00-0069)</small>		
02 82 33 00-0077 SET Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	405.79	
02 82 33 00-0078 LF >10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	28.12	
02 82 33 00-0079 LF >100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	21.44	
02 82 33 00-0080 LF >250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	16.43	
02 82 33 00-0081 LF >500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	12.68	
02 82 33 00-0082 LF >2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	9.86	
02 82 33 00-0083 LF >10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	9.66	
02 82 33 00-0084 Exterior Transite Siding, Asbestos Abatement And Disposal <small>(02 82 33 00-0069)</small>		
02 82 33 00-0085 SET Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	542.15	
Note: Single or first of multiple layers.		
02 82 33 00-0086 SF >125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	4.29	
Note: Single or first of multiple layers.		
02 82 33 00-0087 SF >1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	3.45	
Note: Single or first of multiple layers.		
02 82 33 00-0088 SF >5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	2.79	
Note: Single or first of multiple layers.		
02 82 33 00-0089 SF >10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	2.12	
Note: Single or first of multiple layers.		
02 82 33 00-0090 SF >20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	1.62	
Note: Single or first of multiple layers.		
02 82 33 00-0091 Asbestos Contaminated Debris, Asbestos Abatement And Disposal <small>(02 82 33)</small>		
02 82 33 00-0092 Asbestos Contaminated Debris, Asbestos Abatement And Disposal <small>(02 82 33 00-0091)</small>		
02 82 33 00-0093 SET Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	536.32	
For Work In Restricted Working Space, Add		
02 82 33 00-0094 CF >10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	156.65	
For Work In Restricted Working Space, Add		
02 82 33 00-0095 CF >100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	15.58	
For Work In Restricted Working Space, Add		
02 82 33 00-0096 CF >250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	10.39	
For Work In Restricted Working Space, Add		
02 82 33 00-0097 CF >500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	27.41	
For Work In Restricted Working Space, Add		
02 82 33 00-0098 CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	7.80	
For Work In Restricted Working Space, Add		
02 82 33 00-0099 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	22.18	
For Work In Restricted Working Space, Add		
02 82 33 00-0099 CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	6.23	
For Work In Restricted Working Space, Add		
02 82 33 00-0099 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	19.07	
For Work In Restricted Working Space, Add		
02 82 33 00-0099 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	5.30	
For Work In Restricted Working Space, Add		
02 82 33 00-0099 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	17.30	
For Work In Restricted Working Space, Add		
	4.77	

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 82 33 00-0100	Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal <small>(02 82 33 00-0100)</small>	
02 82 33 00-0101	SET Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	418.81
02 82 33 00-0102	EA >4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	53.52
02 82 33 00-0103	EA >40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	37.94
02 82 33 00-0104	EA >60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	30.19
02 82 33 00-0105	EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	25.49
02 82 33 00-0106	EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	22.68
02 82 33 00-0107	EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	21.08

02 82 33 00-0108 Other Asbestos Containing Materials, Asbestos Abatement And Disposal (02 82 33 00-0108)

02 82 33 00-0109	30" To 36" Fire Door, Asbestos Abatement And Disposal <small>(02 82 33 00-0109)</small>	
02 82 33 00-0110	SET Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	267.46
02 82 33 00-0111	EA >1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	100.36
02 82 33 00-0112	EA >20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	90.97

02 82 33 00-0113 Grout, Asbestos Abatement And Disposal (02 82 33 00-0113)

Note: e.g. flue grout.

02 82 33 00-0114	SET Up To 10 LF, Grout, Asbestos Abatement And Disposal.....	130.75
02 82 33 00-0115	LF >10 To 50 LF, Grout, Asbestos Abatement And Disposal.....	10.30
02 82 33 00-0116	LF >50 To 100 LF, Grout, Asbestos Abatement And Disposal.....	7.10
02 82 33 00-0117	LF >100 To 250 LF, Grout, Asbestos Abatement And Disposal.....	6.08
02 82 33 00-0118	LF >250 To 1,000 LF, Grout, Asbestos Abatement And Disposal.....	5.23
02 82 33 00-0119	LF >1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal.....	4.50
02 82 33 00-0120	LF >2,500 LF, Grout, Asbestos Abatement And Disposal.....	3.87

02 82 33 00-0121 Gaskets, Asbestos Abatement And Disposal (02 82 33 00-0121)

Note: e.g. rope, web cloth, flat.

02 82 33 00-0122	SET Up To 10 LF, Gaskets, Asbestos Abatement And Disposal.....	196.10
02 82 33 00-0123	LF >10 To 50 LF, Gaskets, Asbestos Abatement And Disposal	13.88
02 82 33 00-0124	LF >50 To 250 LF, Gaskets, Asbestos Abatement And Disposal	10.42
02 82 33 00-0125	LF >250 To 500 LF, Gaskets, Asbestos Abatement And Disposal	8.87
02 82 33 00-0126	LF >500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal	8.00
02 82 33 00-0127	LF >1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal	7.18
02 82 33 00-0128	LF >2,500 LF, Gaskets, Asbestos Abatement And Disposal.....	6.84

02 82 33 00-0129 Caulking, Asbestos Abatement And Disposal (02 82 33 00-0129)**02 82 33 00-0130 Non Friable Caulking, Asbestos Abatement And Disposal** (02 82 33 00-0130)

02 82 33 00-0131	SET Up To 10 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	130.75
02 82 33 00-0132	LF >10 To 50 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	7.72
02 82 33 00-0133	LF >50 To 100 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	5.46
02 82 33 00-0134	LF >100 To 250 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	4.06
02 82 33 00-0135	LF >250 To 1,000 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	3.05
02 82 33 00-0136	LF >1,000 To 2,500 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	2.42
02 82 33 00-0137	LF >2,500 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	2.10

02 83 Lead Remediation (02 83)

Note: Tasks include materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete removal and disposal of lead contaminated materials in accordance with EPA and local regulations. Where types of Lead are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. See CSI section 01 56 16 00-0033 for temporary stud walls, 01 74 19 00-0051 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0007 for plastic sheeting for containment construction, 02 89 00 00-0014 for decontamination chambers.

02 83 19 Lead-Based Paint Remediation (02 83 19)**02 83 19 13 Lead-Based Paint Abatement** (02 83 19 13)**02 83 19 13-0001 Minimum Charge For Lead-Based Paint Remediation** (02 83 19 13 0001)

02 83 19 13-0002	EA Lead-Based Paint Remediation Minimum Show Up Charge.....	842.92
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Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.

02 83 19 13-0003 Lead Sampling And Testing (02 83 19 13 0003)

Note: Includes taking sample, delivery to lab and lab fee.



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 83 19 13-0004	EA	X-Ray	Fluorescence (XRF) Lead Testing Including Technician, 3 Readings Per Surface And Lab Fee	40.09	
02 83 19 13-0005	EA	Toxicity	Characteristic Leaching Procedure (TCLP) Lead Test (5 Day Turnaround) And Lab Fee	38.38	
02 83 19 13-0006	EA	Toxicity	Characteristic Leaching Procedure (TCLP) Lead Test (48 Hour Turnaround) And Lab Fee	58.15	
02 83 19 13-0007	EA	Toxicity	Characteristic Leaching Procedure (TCLP) Lead Test (24 Hour Turnaround) And Lab Fee	81.41	
02 83 19 13-0008	EA	Total	Threshold Leaching Concentration (TTLC) Lead Test (5 Day Turnaround) And Lab Fee	15.12	
02 83 19 13-0009	EA	Total	Threshold Leaching Concentration (TTLC) Lead Test (24 Hour Turnaround) And Lab Fee	23.26	
02 83 19 13-0010	EA	Total	Threshold Leaching Concentration (TTLC) Lead Test (8 Hour Turnaround) And Lab Fee	29.08	
02 83 19 13-0011	EA	Soluble	Threshold Limit Concentration (STLC) Lead Test (5 Day Turnaround) And Lab Fee	38.38	
02 83 19 13-0012	EA	Soluble	Threshold Limit Concentration (STLC) Lead Test (3 Day Turnaround) And Lab Fee	58.15	
02 83 19 13-0013	EA	Lead	Wipe Samples (5 Day Turnaround) And Lab Fee	6.40	
02 83 19 13-0014	EA	Lead	Wipe Samples (24 Hour Turnaround) And Lab Fee	8.72	
02 83 19 13-0015	EA	Lead	Wipe Samples (8 Hour Turnaround) And Lab Fee	12.79	
02 83 19 13-0016	EA	Lead	Air Samples (5 Day Turn -Around) And Lab Fee	6.40	
02 83 19 13-0017	EA	Lead	Air Samples (24 Hour Turnaround) And Lab Fee	8.72	
02 83 19 13-0018	EA	Lead	Air Samples (8 Hour Turnaround) And Lab Fee	12.79	
02 83 19 13-0019	EA	Lead	Water Test (5 Day Turnaround) and Lab Fee	23.26	
02 83 19 13-0020	EA	Lead	Water Test (24 Hour Turnaround) and Lab Fee	34.89	
02 83 19 13-0021	EA	Lead	Water Test (8 Hour Turnaround) and Lab Fee	46.52	
02 83 19 13-0022	EA	Lead	Paint Chip Test (5 Day Turnaround) and Lab Fee	24.06	
02 83 19 13-0023	EA	Lead	Soil Test (5 Day Turnaround) and Lab Fee	48.11	

02 83 19 13-0024

Chemical Stripping Of Lead Contaminated Material (02 83 19 13)

Note: Per 0.02" (20 mils) application. Manufacture recommended operating temperatures not to be below 50 degrees. Includes heat gun (where required) for follow up, waste handling, packing and all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not limited to, chromium, cadmium and mercury.

02 83 19 13-0025	SF	Balustrades,	Chemical Stripping Of Lead Contaminated Material	27.03	
02 83 19 13-0026	SF	Balustrades, Ornate,	Chemical Stripping Of Lead Contaminated Material	40.07	
02 83 19 13-0027	SF	Wood Floors,	Chemical Stripping Of Lead Contaminated Material	6.42	
02 83 19 13-0028	SF	HVAC Grilles,	Chemical Stripping Of Lead Contaminated Material	24.14	
02 83 19 13-0029	SF	HVAC Grilles, Ornate,	Chemical Stripping Of Lead Contaminated Material	28.79	
02 83 19 13-0030	EA	Up To 6" Diameter	Hangers, Chemical Stripping Of Lead Contaminated Material	18.65	
02 83 19 13-0031	LF	>2" To 4" Diameter	Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	8.36	
02 83 19 13-0032	LF	>4" To 8" Diameter	Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	14.95	
02 83 19 13-0033	LF	>8" To 12" Diameter	Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	20.49	
02 83 19 13-0034	LF	>12" To 16" Diameter	Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	36.74	
02 83 19 13-0035	SF	>16" Diameter	Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area	10.97	
02 83 19 13-0036	EA	Up To 12 SF	Radiators, Chemical Stripping Of Lead Contaminated Material	218.12	
02 83 19 13-0037	SF	Flat Steel	Surfaces, Chemical Stripping Of Lead Contaminated Material	8.42	
02 83 19 13-0038	SF	Corrugated	Steel, Chemical Stripping Of Lead Contaminated Material	9.55	
02 83 19 13-0039	SF	Steel Beams	and Columns, Chemical Stripping Of Lead Contaminated Material	9.53	
02 83 19 13-0040	SF	Metal	Stairs, Chemical Stripping Of Lead Contaminated Material	43.78	
02 83 19 13-0041	LF	Metal	Single Hand Rail, Chemical Stripping Of Lead Contaminated Material	7.60	
02 83 19 13-0042	SF	Metal	Railing And Posts, Chemical Stripping Of Lead Contaminated Material	22.27	
			Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.		
02 83 19 13-0043	SF	Metal	Picket Fence, Chemical Stripping Of Lead Contaminated Material	24.33	

02 83 19 13-0044

Demolish Lead Contaminated Material (02 83 19 13)

Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not limited to, chromium, cadmium and mercury.

02 83 19 13-0045	SF	Demolish	Brick, Lead Contaminated Material	3.35	
02 83 19 13-0046	SF	Demolish	Concrete Block, Lead Contaminated Material	4.31	
02 83 19 13-0047	SF	Removal	Of Lead Paint On Brick Or Concrete Block, Lead Contaminated Material	4.89	
02 83 19 13-0048	IN	Drilling,	Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	3.77	
02 83 19 13-0049	IN	Drilling,	>1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	5.02	
02 83 19 13-0050	LF	Demolish	Wood Balustrades And Railings, Lead Contaminated Material	5.56	
02 83 19 13-0051	SF	Demolish	Concrete, Lead Contaminated Material	11.06	
02 83 19 13-0052	LF	Demolish	Cabinets, Lead Contaminated Material	25.78	
02 83 19 13-0053	SF	Demolish	Grilles, Lead Contaminated Material	3.11	
02 83 19 13-0054	EA	Demolish	Up To 6" Diameter Hangers, Lead Contaminated Material	13.40	
02 83 19 13-0055	LF	Demolish	Up To 2" Diameter Pipes, Lead Contaminated Material	5.49	
02 83 19 13-0056	LF	Demolish	>2" To 4" Diameter Pipes, Lead Contaminated Material	8.02	
02 83 19 13-0057	LF	Demolish	>4" To 8" Diameter Pipes, Lead Contaminated Material	12.11	
02 83 19 13-0058	LF	Demolish	>8" To 12" Diameter Pipes, Lead Contaminated Material	22.34	
02 83 19 13-0059	EA	Demolish	Radiators, Lead Contaminated Material	96.50	
02 83 19 13-0060	SF	Demolish	Siding, Lead Contaminated Material	1.50	
02 83 19 13-0061	SF	Demolish	Flat Steel Surfaces, Lead Contaminated Material	3.47	
02 83 19 13-0062	SF	Demolish	Steel Beams, Lead Contaminated Material	4.09	
02 83 19 13-0063	SF	Demolish	Trusses, Lead Contaminated Material	5.37	
02 83 19 13-0064	SF	Demolish	Metal Stair, Lead Contaminated Material	6.39	
02 83 19 13-0065	LF	Demolish	Single Metal Hand Rail, Lead Contaminated Material	4.70	
02 83 19 13-0066	LF	Demolish	Metal Railing And Posts, Lead Contaminated Material	7.67	
02 83 19 13-0067	SF	Demolish	Metal Picket Fence, Lead Contaminated Material	2.11	
02 83 19 13-0068	SF	Demolish	Plywood, Lead Contaminated Material	5.77	
02 83 19 13-0069	SF	Demolish	Planks (Various Sizes), Lead Contaminated Material	2.82	
02 83 19 13-0070	EA	Demolish	Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material	17.61	
02 83 19 13-0071	LF	Demolish	Metal Guard Rails, Lead Contaminated Material	10.57	

02 Existing Conditions**02 80 Facility Remediation****02 83 Lead Remediation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 83 19 13-0072 Wet Sanding Of Lead Contaminated Material (02 83 19 13)
 02 83 19 13-0073 SF Wet Sand/Scrape Of Lead Contaminated Material For Prep Before New Paint 1.53

02 83 19 13-0074 Lead Abatement Encapsulation (02 83 19 13)
 Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.

02 83 19 13-0075	SF	Balustrades, Lead Abatement Encapsulation	4.72
02 83 19 13-0076	SF	Brick, Concrete Block, Concrete, Lead Abatement Encapsulation.....	2.99
02 83 19 13-0077	SF	Columns, Lead Abatement Encapsulation	3.65
02 83 19 13-0078	SF	Picket Fence (Brush), Lead Abatement Encapsulation.....	2.12
02 83 19 13-0079	SF	Wood Floors (Roller), Lead Abatement Encapsulation	1.75
02 83 19 13-0080	SF	Grilles, Vents, Lead Abatement Encapsulation	5.11
02 83 19 13-0081	EA	Hangers, Lead Abatement Encapsulation.....	41.24
02 83 19 13-0082	LF	Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation	2.87
02 83 19 13-0083	LF	>4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation	4.05
02 83 19 13-0084	LF	>8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation	6.25
02 83 19 13-0085	LF	>12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation	9.21
02 83 19 13-0086	SF	Siding, Lead Abatement Encapsulation	2.56
02 83 19 13-0087	SF	Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation.....	2.99
02 83 19 13-0088	SF	Steel Beams And Metal Decks, Lead Abatement Encapsulation.....	3.95
02 83 19 13-0089	SF	Trusses, Lead Abatement Encapsulation	3.95

02 83 33 Removal and Disposal of Material Containing Lead (02 83)**02 83 33 13 Lead-Based Paint Removal and Disposal** (02 83 33)

02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead (02 83 33 13)
 02 83 33 13-0002 SF HEPA Vacuum And Wet Clean Lead Contaminated Area With Mild Detergent..... 0.24
 02 83 33 13-0003 SF HEPA Vacuum And Wet Clean Lead Contaminated Area With Tri-Sodium Phosphate..... 0.28
 02 83 33 13-0004 SF HEPA Vacuum And Shampoo Lead Contaminated Carpeting..... 1.11

02 86 Hazardous Waste Drum Handling (02 86)

02 86 00 00-0001 Hazardous Waste Packaging (02 86)
02 86 00 00-0002 Overpacks (02 86 00 00-0001)
02 86 00 00-0003 Steel Salvage Drums, 16 Gauge (02 86 00 00-0002)

02 86 00 00-0004	EA	110 Gallon, 30" Diameter X 41" High	296.91
02 86 00 00-0005	EA	85 Gallon, 26" Diameter X 38" High.....	169.01
02 86 00 00-0006	EA	83 Gallon, 26" Diameter X 36" High.....	163.12
02 86 00 00-0007	EA	55 Gallon, DOT 17C, 18" Diameter X 34" High.....	102.05
02 86 00 00-0008	EA	30 Gallon, DOT 17C, 18" Diameter X 28" High.....	80.39
02 86 00 00-0009	EA	22 Gallon, 16" Diameter X 25" High.....	54.16
02 86 00 00-0010	EA	15 Gallon, DOT 17C, 14" Diameter X 24" High.....	48.97
02 86 00 00-0011	EA	10 Gallon, 13.8" Diameter X 15" High.....	43.15

02 86 00 00-0012 Polyethylene Overpacks (02 86 00 00-0002)
 02 86 00 00-0013 EA 95 Gallon, DOT E9618, Twist On Lid 31" Diameter X 41" High 335.37
 02 86 00 00-0014 EA 20 Gallon, Labpack, Twist On Lid 21" Diameter X 7.5" High 61.98
 02 86 00 00-0015 EA 85 Gallon, DOT E9775, Clamp Ring Lid, 27" Diameter X 41" High..... 303.47

02 86 00 00-0016 Composite Overpacks (02 86 00 00-0002)
 02 86 00 00-0017 EA 55 Gal, DOT 17C, Steel Drum Nested With 2-20 Gallon Fiber Drums..... 164.68
 02 86 00 00-0018 EA 55 Gal, DOT 17C, Steel Drum Nested With 4-10 Gallon Fiber Drums 225.99
 02 86 00 00-0019 EA 85 Gal, 16 Gauge Salvage Drum Nested With 3-20 Gallon Fiber Drums 306.52

02 86 00 00-0020 DOT E-9168 Exempt Packaging (02 86 00 00-0002)
 02 86 00 00-0021 EA 32 Oz Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168..... 14.21
 02 86 00 00-0022 EA 950 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168..... 14.99
 02 86 00 00-0023 EA 500 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168..... 14.66
 02 86 00 00-0024 EA 250 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168..... 7.26
 02 86 00 00-0025 EA Can, Carton, Insert, Tape - Corrosive And Flammable - UPS 8.82
 02 86 00 00-0026 EA 16 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS 6.32
 02 86 00 00-0027 EA 32 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS 8.22

02 86 00 00-0028 Steel Drums (02 86 00 00-0001)
02 86 00 00-0029 UN Rated Steel Drums (02 86 00 00-0028)

02 86 00 00-0030	EA	UN 1A2/X 320/S 55 Gallon, Open, 16 Gauge, Steel Drum	105.79
02 86 00 00-0031	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (25-49)	941.24
02 86 00 00-0032	EA	8 Gallon, 17C, Open	55.29
02 86 00 00-0033	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (10-24)	759.53
02 86 00 00-0034	EA	55 Gallon Reconditioned Steel 17h Drum (50+)	54.09



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 86 00 00-0035 EA 55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (25-49).....	745.24	
02 86 00 00-0036 EA 55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (10-24).....	1,090.29	
02 86 00 00-0037 EA 55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (50+).....	892.24	
02 86 00 00-0038 EA UN 1A2/X 320/S 55 Gallon, Closed, 16 Gauge, Steel Drum.....	99.99	
02 86 00 00-0039 EA UN 1A2/Y 1.4/100 55 Gallon, Open, 16 Gauge, Steel Drum.....	81.08	
02 86 00 00-0040 EA 55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (1-9).....	986.16	
02 86 00 00-0041 EA 55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (25-49).....	1,069.87	
02 86 00 00-0042 EA 55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (50+).....	671.73	
02 86 00 00-0043 EA 55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (50+).....	963.70	
02 86 00 00-0044 EA UN 1A2/Y 1.4/100 55 Gallon, Closed, 16 Gauge, Steel Drum.....	63.89	
02 86 00 00-0045 EA 55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (10-24).....	967.79	
02 86 00 00-0046 EA 30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9).....	632.94	
02 86 00 00-0047 EA 30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24).....	608.44	
02 86 00 00-0048 EA 55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9).....	1,029.04	
02 86 00 00-0049 EA 55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (25-49).....	871.83	
02 86 00 00-0050 EA UN 1A2/X 160/S 30 Gallon, Open, 18 Gauge, Steel Drum.....	74.07	
02 86 00 00-0051 EA 55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (50+).....	826.91	
02 86 00 00-0052 EA UN 1A2/Y 1.4/100 30 Gallon, Open, 18 Gauge, Steel Drum.....	62.96	
02 86 00 00-0053 EA 55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24).....	1,004.54	
02 86 00 00-0054 EA 30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49).....	581.90	
02 86 00 00-0055 EA 30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+).....	561.48	
02 86 00 00-0056 EA 55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49).....	986.16	
02 86 00 00-0057 EA 30 Gallon, 17E, Open.....	45.67	
02 86 00 00-0058 EA 55 Gallon Reconditioned Steel 17h Drum (1-9).....	79.34	
02 86 00 00-0059 EA 20 Gallon, 17C, Open.....	64.19	
02 86 00 00-0060 EA 55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+).....	888.16	
02 86 00 00-0061 EA 55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (1-9).....	1,063.75	
02 86 00 00-0062 EA 55 Gallon Reconditioned Steel 17h Drum (10-24).....	70.32	
02 86 00 00-0063 EA 55 Gallon Reconditioned Steel 17h Drum (25-49).....	61.30	
02 86 00 00-0064 EA 55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (1-9).....	777.91	
02 86 00 00-0065 EA 55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (10-24).....	1,043.33	
02 86 00 00-0066 EA 20 Gallon, 17E, Open.....	43.21	
02 86 00 00-0067 Plastic Drums (02 86 00 00-0001)		
02 86 00 00-0068 Polyethylene Closed Head Drums (02 86 00 00-0067)		
Note: Closed head drums have standard NPS (National Pipe Standard) plug and drain vents. Primarily for liquids.		
02 86 00 00-0069 EA 55 Gallon Polyethylene Closed Head Drums.....	66.41	
02 86 00 00-0070 EA 35 Gallon Polyethylene Closed Head Drums.....	50.98	
02 86 00 00-0071 EA 30 Gallon Polyethylene Closed Head Drums.....	46.29	
02 86 00 00-0072 EA 20 Gallon Polyethylene Closed Head Drums.....	32.34	
02 86 00 00-0073 EA 15 Gallon Polyethylene Closed Head Drums.....	31.73	
02 86 00 00-0074 Polyethylene Open Head Drums (02 86 00 00-0067)		
Note: Open head drums are primarily used for solids and sludge.		
02 86 00 00-0075 EA 55 Gallon Polyethylene Open Head Drums.....	83.94	
02 86 00 00-0076 EA 35 Gallon Polyethylene Open Head Drums.....	61.72	
02 86 00 00-0077 EA 30 Gallon Polyethylene Open Head Drums.....	58.64	
02 86 00 00-0078 EA 20 Gallon Polyethylene Open Head Drums.....	43.21	
02 86 00 00-0079 EA 15 Gallon Polyethylene Open Head Drums.....	37.03	
02 86 00 00-0080 Fiber Drums (02 86 00 00-0001)		
02 86 00 00-0081 Steel Top/Fiber Bottom Drums, Hazardous (02 86 00 00-0080)		
Note: Waste fiber drums have tubular rubber gaskets and caulked bottom seams.		
02 86 00 00-0082 EA 30 Gallon Fiber Drum DOT-21C (1-9).....	50.86	
02 86 00 00-0083 EA 30 Gallon Fiber Drum DOT-21C (10-24).....	47.65	
02 86 00 00-0084 EA 30 Gallon Fiber Drum DOT-21C (25-49).....	43.45	
02 86 00 00-0085 EA 30 Gallon Fiber Drum DOT-21C (50+).....	42.96	
02 86 00 00-0086 EA 55 Gallon Fiber Drum DOT-21C (1-9).....	52.34	
02 86 00 00-0087 EA 55 Gallon Fiber Drum DOT-21C (10-24).....	49.38	
02 86 00 00-0088 EA 55 Gallon Fiber Drum DOT-21C (25-49).....	45.67	
02 86 00 00-0089 EA 55 Gallon Fiber Drum DOT-21C (50-99).....	44.19	
02 86 00 00-0090 EA 55 Gallon Fiber Drum DOT-21C (100+).....	38.27	
02 86 00 00-0091 EA 10 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined.....	32.59	
02 86 00 00-0092 EA 20 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined.....	35.55	
02 86 00 00-0093 EA 20 Gallon, 23" Diameter, DOT 21C-250 Polyethylene/Polyester Lined.....	41.48	
02 86 00 00-0094 Loading Hazardous Waste For Shipment (02 86 00 00-0001)		
02 86 00 00-0095 EA Load Drums On Disposal Truck.....	8.71	
02 86 00 00-0096 EA Load Liquid Or Sludge Into 5,000 Gallon Bulk Tank Truck.....	933.17	
02 86 00 00-0097 Transport Drums To Landfill (02 86 00 00-0001)		
Note: Includes transportation for up to 25 miles.		
02 86 00 00-0098 EA Transport Drum To Landfill.....	54.71	
Note: Includes transportation for up to 25 miles.		



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 87 Bio-Hazard Material Remediation (02 80)

02 87 13 Mold Remediation (02 87)

Note: All unit pricing in this section includes: materials, equipment, mobilization, preparation, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, monitoring (personnel and air), sampling/testing, fees, documentation and other associated costs necessary for the complete removal and disposal of mold in accordance with EPA, OSHA, IICRC standards and local regulations. Where types of Mold are listed by quantity, the quantity of the entire project, not a particular work area of building, is to be used in determining which tasks apply. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 100 LF or SF (Up to 25 LF for Mold Abatement pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. See CSI section 01 56 16 00-0033 for temporary stud walls, 01 74 19 00-0051 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0007 for plastic sheeting for containment construction, 02 89 00 00-0014 for decontamination chambers.

02 87 13 33 Removal and Disposal of Materials with Mold (02 87 13)

02 87 13 33-0001	Pipe And Pipe Fittings Insulation, Mold Abatement And Disposal (02 87 13 33)	
	Note: Treat fittings as additional lf of insulation.	
02 87 13 33-0002	Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0001)	
	Note: Diameter is outer size of insulation.	
02 87 13 33-0003	Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)	
	Note: Excludes encased fittings.	
02 87 13 33-0004	SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	529.24
02 87 13 33-0005	LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	20.55
02 87 13 33-0006	LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	15.49
02 87 13 33-0007	LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	11.70
02 87 13 33-0008	LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	8.86
02 87 13 33-0009	LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	7.76
02 87 13 33-0010	>6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)	
02 87 13 33-0011	SET Up To 20 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	550.47
02 87 13 33-0012	LF >20 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	24.63
02 87 13 33-0013	LF >250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	18.82
02 87 13 33-0014	LF >500 To 2,500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	14.47
02 87 13 33-0015	LF >2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	11.21
02 87 13 33-0016	LF >10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	9.93
02 87 13 33-0017	Thermal Insulation, Mold Abatement And Disposal (02 87 13 33)	
02 87 13 33-0018	Other Thermal Insulation, Up To 3" Thick, Mold Abatement And Disposal (02 87 13 33-0017)	
02 87 13 33-0019	SET Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal.....	539.86
02 87 13 33-0020	SF >50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal.....	11.95
02 87 13 33-0021	SF >500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal.....	9.06
02 87 13 33-0022	SF >2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal.....	6.88
02 87 13 33-0023	SF >10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal.....	5.36
02 87 13 33-0024	Surfacing Material, Mold Abatement And Disposal (02 87 13 33)	
	Note: e.g. fireproofing, acoustical plaster, etc.	
02 87 13 33-0025	Stucco, Mold Abatement And Disposal (02 87 13 33-0024)	
	Note: Remove surface coat from brown coat or remove entire assembly, including lath.	
02 87 13 33-0026	SET Up To 50 SF, Stucco, Mold Abatement And Disposal.....	533.96
02 87 13 33-0027	SF >50 To 500 SF, Stucco, Mold Abatement And Disposal.....	11.84
02 87 13 33-0028	SF >500 To 2,500 SF, Stucco, Mold Abatement And Disposal.....	8.95
02 87 13 33-0029	SF >2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal.....	6.77
02 87 13 33-0030	SF >10,000 SF, Stucco, Mold Abatement And Disposal.....	5.15
02 87 13 33-0031	Fireproofing, Mold Abatement And Disposal (02 87 13 33-0024)	
	Note: Exposed surface area, includes associated overspray.	
02 87 13 33-0032	SET Up To 50 SF, Fireproofing, Mold Abatement And Disposal.....	539.86
02 87 13 33-0033	SF >50 To 500 SF, Fireproofing, Mold Abatement And Disposal.....	16.35
02 87 13 33-0034	SF >500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal.....	12.36
02 87 13 33-0035	SF >2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal.....	9.36
02 87 13 33-0036	SF >10,000 SF, Fireproofing, Mold Abatement And Disposal.....	7.10
02 87 13 33-0037	Siding, Mold Abatement And Disposal (02 87 13 33)	
02 87 13 33-0038	Exterior Siding, Mold Abatement And Disposal (02 87 13 33-0037)	
02 87 13 33-0039	SET Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal.....	545.76
02 87 13 33-0040	SF >100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal.....	4.90
02 87 13 33-0041	SF >500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal.....	3.42
02 87 13 33-0042	SF >2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal.....	2.33
02 87 13 33-0043	SF >10,000 SF, Exterior Siding Board, Mold Abatement And Disposal.....	2.11



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0044 Contaminated Debris, Mold Abatement And Disposal <small>(02 87 13 33)</small>		
02 87 13 33-0045 Contaminated Debris, Mold Abatement And Disposal <small>(02 87 13 33-0044)</small>		
02 87 13 33-0046 SET Up To 20 CF, Contaminated Debris, Mold Abatement And Disposal.....	550.47	
02 87 13 33-0047 CF >20 To 100 CF, Contaminated Debris, Mold Abatement And Disposal	19.47	
02 87 13 33-0048 CF >100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal	13.45	
02 87 13 33-0049 CF >250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal	10.44	
02 87 13 33-0050 CF >500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal	8.64	
02 87 13 33-0051 CF >2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal	5.36	
02 87 13 33-0052 CF >10,000 CF, Contaminated Debris, Mold Abatement And Disposal	4.96	
02 87 13 33-0053 Other Mold Containing Materials, Mold Abatement And Disposal <small>(02 87 13 33)</small>		
02 87 13 33-0054 Caulking, Mold Abatement And Disposal <small>(02 87 13 33-0053)</small>		
02 87 13 33-0055 SET Up To 20 LF, Caulking, Mold Abatement And Disposal.....	130.94	
02 87 13 33-0056 LF >20 To 50 LF, Caulking, Mold Abatement And Disposal	2.64	
02 87 13 33-0057 LF >50 To 100 LF, Caulking, Mold Abatement And Disposal	1.89	
02 87 13 33-0058 LF >100 To 250 LF, Caulking, Mold Abatement And Disposal	1.43	
02 87 13 33-0059 LF >250 To 1,000 LF, Caulking, Mold Abatement And Disposal	1.06	
02 87 13 33-0060 LF >1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal	0.87	
02 87 13 33-0061 LF >2,500 LF, Caulking, Mold Abatement And Disposal	0.75	
02 87 13 33-0062 Wipe Down Walls, Ceilings And Floors <small>(02 87 13 33-0063)</small>		
02 87 13 33-0063 CSF Wipe Down Floors With Mild Bleach Solution.....	14.51	
02 87 13 33-0064 CSF Wipe Down Walls With Mild Bleach Solution.....	17.07	
02 87 13 33-0065 CSF Wipe Down Ceilings With Mild Bleach Solution	19.41	
02 87 13 33-0066 CSF Wipe Down Countertops With Mild Bleach Solution	15.82	
02 87 13 33-0067 CSF Wipe Down Other Surfaces With Mild Bleach Solution.....	20.08	
02 87 16 Excrement Removal <small>(02 87)</small>		
Note: Tasks include materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.		
02 87 16 13 Bird Excrement Removal <small>(02 87 16)</small>		
02 87 16 13-0001 Bird Waste Removal <small>(02 87 16 13)</small>		
Note: In addition to items listed the Bio-Hazard Material Remediation note above, tasks include wetting agents and disinfection of contaminated surfaces.		
02 87 16 13-0002 EA Up To 10 SF Bird Waste Removal, Up To 3" Thickness.....	522.17	
<i>For Work In Restricted Working Space, Add</i>		156.65
02 87 16 13-0003 SF >10 To 500 SF Bird Waste Removal, Up To 3" Thickness	8.71	
<i>For Work In Restricted Working Space, Add</i>		2.61
02 87 16 13-0004 SF >500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness	7.91	
<i>For Work In Restricted Working Space, Add</i>		2.37
02 87 16 13-0005 SF >2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness	7.19	
<i>For Work In Restricted Working Space, Add</i>		2.16
02 87 16 13-0006 SF >10,000 SF Bird Waste Removal, Up To 3" Thickness	6.54	
<i>For Work In Restricted Working Space, Add</i>		1.96
02 89 Hazmat Ancillary Tasks And Support <small>(02 89)</small>		
02 89 00 00-0001 Barriers And Protection <small>(02 89)</small>		
Note: Includes removal and disposal after use.		
02 89 00 00-0002 Cleaning Surfaces <small>(02 89 00 00-0001)</small>		
Note: Other surfaces outside contamination area but not contaminated by, or part of removal.		
02 89 00 00-0003 SF Up To 100 SF, Clean Asbestos Surface.....	1.27	
02 89 00 00-0004 SF >100 To 500 SF, Clean Asbestos Surface.....	0.89	
02 89 00 00-0005 SF >500 To 1,000 SF, Clean Asbestos Surface.....	0.58	
02 89 00 00-0006 SF >1,000 SF, Clean Asbestos Surface.....	0.45	
02 89 00 00-0007 Hazmat Containment Construction <small>(02 89 00 00-0001)</small>		
02 89 00 00-0008 SF 6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction.....	0.32	
02 89 00 00-0009 SF 6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction.....	0.41	
02 89 00 00-00010 SF 6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.56	
02 89 00 00-00011 SF 6 Mil Plastic Fire Retardant, Anti Static Sheeting, Applied To Floors, Hazmat Containment Construction	0.52	
02 89 00 00-00012 SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction.....	0.67	
02 89 00 00-00013 SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.89	
02 89 00 00-0014 Decontamination Chambers <small>(02 89)</small>		
Note: Includes removal after use.		

02 Existing Conditions**02 80 Facility Remediation****02 89 Hazmat Ancillary Tasks And Support**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 89 00 00-0015 EA Portable Personnel Decontamination Wash Facility (3 Stage)..... Note: Includes connection to negative air system. <i>For Dismantling And Relocation To A Different Area, Add</i>	653.78	407.16
02 89 00 00-0016 EA Portable Personnel Decontamination Wash Facility (5 Stage)..... Note: Includes connection to negative air system. <i>For Dismantling And Relocation To A Different Area, Add</i>	772.78	485.40
02 89 00 00-0017 EA Portable Waste Decontamination Unit..... Note: Includes connection to negative air system. <i>For Dismantling And Relocation To A Different Area, Add</i>	417.33	294.02

END OF SECTION 02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 Concrete

03 01 Maintenance Of Concrete ⁽⁰³⁾

03 01 30 Maintenance Of Cast-In-Place Concrete ^(03 01)

03 01 30 51 **Cleaning Of Cast-In-Place Concrete** ^(03 01 30)

03 01 30 51-0001	Abrasive Blasting ^(03 01 30 51) Note: Includes containment and clean-up of all material. Includes steel ball media.	
03 01 30 51-0002	SF Concrete Floors, Abrasive Shot Blasting	1.98
	For Up To 100, Add	2.42
	For >100 To 250, Add	0.61
	For >250 To 500, Add	0.30
	For >5,000 To 10,000, Deduct	-0.06
	For >10,000, Deduct	-0.12
03 01 30 51-0003	SF Concrete Walls, Abrasive Shot Blasting	3.19
	For Up To 100, Add	4.84
	For >100 To 250, Add	1.21
	For >250 To 500, Add	0.61
	For >5,000 To 10,000, Deduct	-0.12
	For >10,000, Deduct	-0.24

03 01 30 71 **Rehabilitation Of Cast-in-Place Concrete** ^(03 01 30)

03 01 30 71-0001	Concrete Resurfacing/Repair ^(03 01 30 71) See CSI section 09 91 43 00-0002 for surface preparation as required.	
03 01 30 71-0002	Concrete Repair ^(03 01 30 71-0001)	
03 01 30 71-0003	Decks Or Floors ^(03 01 30 71-0002) Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0004	SF 1/8" To 1/4", Cementitious Mortar Patch, Decks And Floors.....	5.39
03 01 30 71-0005	SF 1/8" To 1/4", Epoxy Cementitious Mortar Patch, Decks And Floors.....	17.91
03 01 30 71-0006	SF White Aluminum Oxide Grit (Non Slip Aggregate) Patch, Decks And Floors.....	0.50
03 01 30 71-0007	Concrete Grinding ^(03 01 30 71-0002)	
03 01 30 71-0008	SY Grinding Cured, Warped, Or Rough Slabs	1.59
03 01 30 71-0009	Verticals Or Overheads ^(03 01 30 71-0002) Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0010	SF 1/8" To 1/4" Cementitious Mortar Patch, Verticals And Overheads	8.02
03 01 30 71-0011	SF 1/8" To 1/4" Epoxy Cementitious Mortar Patch, Verticals And Overheads	23.94
03 01 30 71-0012	SF 1/8" To 1/4" Latex Cementitious Mortar Patch, Verticals And Overheads	27.10
03 01 30 71-0013	SF 1/8" To 1/4" Elastomeric Compound Patch, Verticals And Overheads	6.02
03 01 30 71-0014	SF 1/8" To 1/4" Copolymer Cementitious Compound Patch, Verticals And Overheads.....	10.48
	Note: Rapid Set - Wunderfixx	
03 01 30 71-0015	Bridge Deck Treatment ^(03 01 30 71-0002)	
03 01 30 71-0016	SF Sweep Bridge Deck	0.01
03 01 30 71-0017	SF Clean Bridge Deck.....	0.02
03 01 30 71-0018	SF Treat Bridge Deck With Methacrylate Resin Sealant.....	1.41
03 01 30 71-0019	Concrete Finishes ^(03 01 30 71-0001)	
03 01 30 71-0020	Concrete Patching ^(03 01 30 71-0019)	
03 01 30 71-0021	Walls ^(03 01 30 71-0020)	
03 01 30 71-0022	BAG Sika Top 111 Plus.....	106.57
	Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar. Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 lbs. of 3/8" pea gravel).	
	For Up To 10, Add	35.20
	For >10 To 25, Add	21.12
	For >25 To 50, Add	14.08
	For >50 To 75, Add	7.04
03 01 30 71-0023	BAG Sika Grout 212, 50 LB Bag	74.74
	Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.	
	For Up To 10, Add	22.30
	For >10 To 25, Add	13.38
	For >25 To 50, Add	8.92
	For >50 To 75, Add	4.46
03 01 30 71-0024	EA Sika Flex 1A, 10.3 Ounce Tube.....	28.87
	Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.	
03 01 30 71-0025	BAG Pea Gravel.....	20.42

03 Concrete**03 01 Maintenance Of Concrete****03 01 30 Maintenance Of Cast-In-Place Concrete**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 01 30 71-0026	Crack Repair For Concrete <small>(03 01 30 71-0001)</small>	
03 01 30 71-0027	Non Structural Crack Repair For Concrete <small>(03 01 30 71-0026)</small>	
03 01 30 71-0028	Surface Applied, Non Structural Crack Repair For Concrete <small>(03 01 30 71-0027)</small> Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.	
03 01 30 71-0029	LF Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	5.01
	<i>For V-Grooving Crack With Grinder, Add</i>	4.04
03 01 30 71-0030	LF >1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	6.54
	<i>For V-Grooving Crack With Grinder, Add</i>	3.94
03 01 30 71-0031	LF Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	5.09
	<i>For V-Grooving Crack With Grinder, Add</i>	4.04
03 01 30 71-0032	LF >1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	6.69
	<i>For V-Grooving Crack With Grinder, Add</i>	3.94
03 01 30 71-0033	LF Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	5.37
	<i>For V-Grooving Crack With Grinder, Add</i>	4.04
03 01 30 71-0034	LF >1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	7.25
	<i>For V-Grooving Crack With Grinder, Add</i>	3.94
03 01 30 71-0035	LF Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	5.57
	<i>For V-Grooving Crack With Grinder, Add</i>	4.04
03 01 30 71-0036	LF >1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	7.65
	<i>For V-Grooving Crack With Grinder, Add</i>	3.94
03 01 30 71-0037	Pressure Injected, Non Structural Crack Repair For Concrete <small>(03 01 30 71-0027)</small> Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.	
03 01 30 71-0038	LF Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570).....	21.02
	<i>For Cracks Accessible From Both Sides, Add</i>	4.27
03 01 30 71-0039	Structural Crack Repair For Concrete <small>(03 01 30 71-0026)</small>	
03 01 30 71-0040	Surface Applied, Structural Crack Repair For Concrete <small>(03 01 30 71-0039)</small> Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.	
03 01 30 71-0041	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	5.62
	<i>For V-Grooving Crack With Grinder, Add</i>	4.04
03 01 30 71-0042	LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	7.76
	<i>For V-Grooving Crack With Grinder, Add</i>	3.94
03 01 30 71-0043	LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52).....	5.81
	<i>For V-Grooving Crack With Grinder, Add</i>	4.04
03 01 30 71-0044	LF >1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52).....	8.14
	<i>For V-Grooving Crack With Grinder, Add</i>	3.94
03 01 30 71-0045	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	6.42
	<i>For V-Grooving Crack With Grinder, Add</i>	4.04
03 01 30 71-0046	LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	9.36
	<i>For V-Grooving Crack With Grinder, Add</i>	3.94
03 01 30 71-0047	Pressure Injected, Structural Crack Repair For Concrete <small>(03 01 30 71-0039)</small> Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.	
03 01 30 71-0048	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35).....	18.84
	<i>For Cracks Accessible From Both Sides, Add</i>	4.27
03 01 30 71-0049	LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52).....	19.03
	<i>For Cracks Accessible From Both Sides, Add</i>	4.27
03 01 30 71-0050	Carbon Fiber Strengthening System <small>(03 01 30 71-0001)</small> Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0051 SF Carbon Fiber Strengthening System Beams, Per Layer.....	62.32	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0052 SF Carbon Fiber Strengthening System Columns, Per Layer.....	54.55	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0053 SF Carbon Fiber Strengthening System Slabs, Per Layer.....	47.74	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		

03 05 Common Work Results For Concrete (03)

03 05 13 Concrete Admixtures (03 05)

03 05 13 00-0001 Concrete Admixtures (03 05 13)

03 05 13 00-0002 CY Low Range Water Reducing (LRWR), Type A Concrete Admixture.....	3.71
03 05 13 00-0003 CY Set Retarding, Type B Concrete Admixture.....	2.57
03 05 13 00-0004 CY 1% Calcium Chloride Accelerating, Type C Concrete Admixture.....	4.00
03 05 13 00-0005 CY 2% Calcium Chloride Accelerating, Type C Concrete Admixture.....	8.00
03 05 13 00-0006 CY 1% Non-Chloride Accelerating, Type C Concrete Admixture.....	7.14
03 05 13 00-0007 CY 2% Non-Chloride Accelerating, Type C Concrete Admixture.....	14.28
03 05 13 00-0008 CY Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture.....	3.08
03 05 13 00-0009 CY 1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture.....	4.28
03 05 13 00-0010 CY 2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture.....	8.57
03 05 13 00-0011 CY Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture.....	5.15
03 05 13 00-0012 CY High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture.....	6.85
03 05 13 00-0013 CY 1-1/2 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture.....	9.14
03 05 13 00-0014 CY 25 LB/CY Steel Fibers, Concrete Admixture.....	23.16
03 05 13 00-0015 CY 10% Microsilica (Silica Fume), Concrete Admixture.....	82.47
03 05 13 00-0016 CY Corrosion Inhibiting Concrete Admixture.....	17.13
03 05 13 00-0017 CY Winter Service Or Heat, Concrete Add.....	4.00
03 05 13 00-0018 CY Chilled Water, Concrete Add.....	4.00
03 05 13 00-0019 CY Subtle Color (See Davis Colors Color Card), Concrete Admixture.....	23.13
03 05 13 00-0020 CY Standard Color (See Davis Colors Color Card), Concrete Admixture.....	38.55
03 05 13 00-0021 CY Premium Color (See Davis Colors Color Card), Concrete Admixture.....	74.01
03 05 13 00-0022 CY Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture.....	102.80

03 10 Concrete Forming And Accessories (03)

03 11 Concrete Forming (03 10)

03 11 13 Structural Cast-In-Place Concrete Forming (03 11)

Note: Per square foot of formwork.

03 11 13 00-0001 Wood Formwork (03 11 13)

Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.

03 11 13 00-0002 Foundation Wood Formwork (03 11 13 00-0001)

Note: For foundation work below or at grade.

03 11 13 00-0003 SF Continuous Footings Foundation Wood Formwork.....	6.69
For <1,000, Add	1.26
For Foundations >8' Below Grade, Add	1.23
For Curved Formwork, Add	2.45
03 11 13 00-0004 SF Pile Cap, Pier Or Spread Footings Foundation Wood Formwork.....	8.01
For <1,000, Add	1.52
For Foundations >8' Below Grade, Add	1.49
For Curved Formwork, Add	2.97
03 11 13 00-0005 SF Mat Foundation Wood Formwork.....	9.30
For <1,000, Add	1.79
For Foundations >8' Below Grade, Add	1.75
For Curved Formwork, Add	3.50
03 11 13 00-0006 SF Grade Beams Or Duct Bank Foundation Wood Formwork.....	7.74
For <1,000, Add	1.48
For Foundations >8' Below Grade, Add	1.44
For Curved Formwork, Add	2.88
03 11 13 00-0007 SF Below Grade Walls Foundation Wood Formwork.....	10.98
Note: Excludes footing	
For <1,000, Add	2.09
For Foundations >8' Below Grade, Add	2.04
For Curved Formwork, Add	4.07
03 11 13 00-0008 Slab Edge And Block-Out Wood Formwork <small>(03 11 13 00-0001)</small>	
03 11 13 00-0009 LF Up To 6" High Slab Edge and Block-Out Wood Formwork.....	5.20
For Foundations >8' Below Grade, Add	0.98
For Curved Formwork, Add	1.96
For Up To 250, Add	1.00
03 11 13 00-0010 LF >6" To 12" High Slab Edge and Block-Out Wood Formwork.....	7.41
For Foundations >8' Below Grade, Add	1.37
For Curved Formwork, Add	2.73
For Up To 250, Add	1.41

03 Concrete**03 10 Concrete Forming And Accessories****03 11 Concrete Forming**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0011	SF		>12" High Slab Edge and Block-Out Wood Formwork.....	9.56	
			<i>For Foundations >8' Below Grade, Add</i>	1.77	
			<i>For Curved Formwork, Add</i>	3.55	
			<i>For <1,000, Add</i>	1.82	
03 11 13 00-0012			Column Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0013	LF		Up To 8" Square Column Wood Formwork.....	40.05	
03 11 13 00-0014	LF		>8" To 12" Square Column Wood Formwork.....	58.25	
03 11 13 00-0015	LF		>12" To 18" Square Column Wood Formwork.....	73.35	
03 11 13 00-0016	LF		>18" To 24" Square Column Wood Formwork.....	105.57	
03 11 13 00-0017	LF		>24" To 36" Square Column Wood Formwork.....	151.60	
03 11 13 00-0018	LF		>36" To 48" Square Column Wood Formwork.....	200.60	
03 11 13 00-0019			Above Grade Wall Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0020	SF		Up To 8' High Above Grade Wall Wood Formwork.....	12.30	
			<i>For Curved Formwork, Add</i>	4.60	
			<i>For <1,000, Add</i>	2.35	
03 11 13 00-0021	SF		>8' High Above Grade Wall Wood Formwork.....	14.57	
			<i>For Curved Formwork, Add</i>	5.46	
			<i>For <1,000, Add</i>	2.79	
03 11 13 00-0022			Elevated Beam Wood Formwork (03 11 13 00-0001)		
			Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0023	SF		Bottom of Elevated Beam Wood Formwork.....	16.03	
			<i>For Curved Formwork, Add</i>	5.99	
			<i>For <1,000, Add</i>	3.07	
03 11 13 00-0024	SF		Vertical Sides of Elevated Beam Wood Formwork.....	10.21	
			<i>For Curved Formwork, Add</i>	3.83	
			<i>For <1,000, Add</i>	1.96	
03 11 13 00-0025			Elevated Slab Wood Formwork (03 11 13 00-0001)		
			Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0026	SF		Elevated Slab Wood Formwork.....	9.37	
			<i>For <1,000, Add</i>	1.74	
03 11 13 00-0027			Metal Framed Formwork (03 11 13)		
			Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
03 11 13 00-0028			Foundation Metal Framed Formwork (03 11 13 00-0027)		
			Note: For foundation work below or at grade.		
03 11 13 00-0029	SF		Continuous Footings Foundation Metal Framed Formwork.....	5.70	
			<i>For <1,000, Add</i>	1.10	
			<i>For Foundations >8' Below Grade, Add</i>	1.08	
			<i>For Curved Formwork, Add</i>	2.17	
03 11 13 00-0030	SF		Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork.....	6.39	
			<i>For <1,000, Add</i>	1.24	
			<i>For Foundations >8' Below Grade, Add</i>	1.22	
			<i>For Curved Formwork, Add</i>	2.44	
03 11 13 00-0031	SF		Mat Foundation Metal Framed Formwork.....	7.04	
			<i>For <1,000, Add</i>	1.36	
			<i>For Foundations >8' Below Grade, Add</i>	1.34	
			<i>For Curved Formwork, Add</i>	2.68	
03 11 13 00-0032	SF		Grade Beams Or Duct Bank Foundation Metal Framed Formwork.....	5.94	
			<i>For <1,000, Add</i>	1.15	
			<i>For Foundations >8' Below Grade, Add</i>	1.13	
			<i>For Curved Formwork, Add</i>	2.25	
03 11 13 00-0033	SF		Below Grade Walls Foundation Metal Framed Formwork.....	9.24	
			Note: Excludes footing.		
			<i>For <1,000, Add</i>	1.80	
			<i>For Foundations >8' Below Grade, Add</i>	1.77	
			<i>For Curved Formwork, Add</i>	3.55	
03 11 13 00-0034			Slab Edge And Block-Out Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0035	LF		Up To 6" High Slab Edge and Block-Out Metal Framed Formwork.....	4.46	
			<i>For Foundations >8' Below Grade, Add</i>	0.88	
			<i>For Curved Formwork, Add</i>	1.77	
			<i>For <250, Add</i>	0.89	
03 11 13 00-0036	LF		>6" To 12" High Slab Edge and Block-Out Metal Framed Formwork.....	5.57	
			<i>For Foundations >8' Below Grade, Add</i>	1.10	
			<i>For Curved Formwork, Add</i>	2.20	
			<i>For <250, Add</i>	1.10	
03 11 13 00-0037	SF		>12" High Slab Edge and Block-Out Metal Framed Formwork.....	6.15	
			<i>For Foundations >8' Below Grade, Add</i>	1.21	
			<i>For Curved Formwork, Add</i>	2.42	
			<i>For <1,000, Add</i>	1.22	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0038	Column Metal Framed Formwork (03 11 13 00-0027)			
03 11 13 00-0039	Square Columns (03 11 13 00-0038)			
03 11 13 00-0040	LF Up To 12" Square Column Metal Framed Formwork		34.28	
03 11 13 00-0041	LF >12" To 16" Square Column Metal Framed Formwork		41.14	
03 11 13 00-0042	LF >16" To 20" Square Column Metal Framed Formwork		48.00	
03 11 13 00-0043	LF >20" To 24" Square Column Metal Framed Formwork		57.51	
03 11 13 00-0044	LF >24" To 30" Square Column Metal Framed Formwork		69.12	
03 11 13 00-0045	LF >30" To 36" Square Column Metal Framed Formwork		82.74	
03 11 13 00-0046	LF >36" To 48" Square Column Metal Framed Formwork		105.98	
03 11 13 00-0047	LF >48" To 60" Square Column Metal Framed Formwork		130.32	
03 11 13 00-0048	Round Columns (03 11 13 00-0038)			
03 11 13 00-0049	LF Up To 12" Diameter Column Metal Formwork		25.86	
03 11 13 00-0050	LF >12" To 16" Diameter Column Metal Formwork		29.39	
03 11 13 00-0051	LF >16" To 20" Diameter Column Metal Formwork		34.39	
03 11 13 00-0052	LF >20" To 24" Diameter Column Metal Formwork		41.29	
03 11 13 00-0053	LF >24" To 30" Diameter Column Metal Formwork		49.54	
03 11 13 00-0054	LF >30" To 36" Diameter Column Metal Formwork		57.31	
03 11 13 00-0055	LF >36" To 48" Diameter Column Metal Formwork		71.31	
03 11 13 00-0056	LF >48" To 60" Diameter Column Metal Formwork		85.74	
03 11 13 00-0057	Above Grade Wall Metal Framed Formwork (03 11 13 00-0027)			
03 11 13 00-0058	SF Up to 8' High Above Grade Wall Metal Framed Formwork		5.34	
	For Curved Formwork, Add		1.99	
	For <1,000, Add		1.02	
03 11 13 00-0059	SF >8' High Above Grade Wall Metal Framed Formwork		6.44	
	For Curved Formwork, Add		2.38	
	For <1,000, Add		1.22	
03 11 13 00-0060	Elevated Beam Metal Framed Formwork (03 11 13 00-0027)			
	Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.			
03 11 13 00-0061	SF Bottom of Elevated Beam Metal Framed Formwork		5.31	
	For Curved Formwork, Add		1.85	
	For <1,000, Add		0.97	
03 11 13 00-0062	SF Vertical Sides of Elevated Beam Metal Framed Formwork		3.92	
	For Curved Formwork, Add		1.45	
	For <1,000, Add		0.74	
03 11 13 00-0063	Elevated Slab Metal Framed Formwork (03 11 13 00-0027)			
	Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.			
03 11 13 00-0064	SF Elevated Slab Metal Framed Formwork		6.95	
	For <1,000, Add		1.13	
03 11 13 00-0065	Fiber Tube Formwork (03 11 13)			
	Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.			
03 11 13 00-0066	Round Column Fiber Tube Formwork (03 11 13 00-0065)			
03 11 13 00-0067	LF 6" Diameter Round Fiber Tube Formwork		15.93	
	For Plastic Lined, Add		0.55	
	For Columns >12' In Length, Add		1.59	
03 11 13 00-0068	LF 8" Diameter Round Fiber Tube Formwork		16.78	
	For Plastic Lined, Add		0.64	
	For Columns >12' In Length, Add		1.68	
03 11 13 00-0069	LF 10" Diameter Round Fiber Tube Formwork		18.52	
	For Plastic Lined, Add		0.74	
	For Columns >12' In Length, Add		1.85	
03 11 13 00-0070	LF 12" Diameter Round Fiber Tube Formwork		21.78	
	For Plastic Lined, Add		1.06	
	For Columns >12' In Length, Add		2.18	
03 11 13 00-0071	LF 14" Diameter Round Fiber Tube Formwork		24.55	
	For Plastic Lined, Add		1.44	
	For Columns >12' In Length, Add		2.46	
03 11 13 00-0072	LF 16" Diameter Round Fiber Tube Formwork		26.52	
	For Plastic Lined, Add		1.82	
	For Columns >12' In Length, Add		2.65	
03 11 13 00-0073	LF 18" Diameter Round Fiber Tube Formwork		27.84	
	For Plastic Lined, Add		1.98	
	For Columns >12' In Length, Add		2.78	
03 11 13 00-0074	LF 20" Diameter Round Fiber Tube Formwork		30.26	
	For Plastic Lined, Add		2.47	
	For Columns >12' In Length, Add		3.03	
03 11 13 00-0075	LF 22" Diameter Round Fiber Tube Formwork		33.07	
	For Plastic Lined, Add		2.98	
	For Columns >12' In Length, Add		3.31	
03 11 13 00-0076	LF 24" Diameter Round Fiber Tube Formwork		35.87	
	For Plastic Lined, Add		3.49	
	For Columns >12' In Length, Add		3.59	

03 Concrete**03 10 Concrete Forming And Accessories****03 11 Concrete Forming**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0077 LF 26" Diameter Round Fiber Tube Formwork	37.36	
For Plastic Lined, Add	3.80	
For Columns >12' In Length, Add	3.74	
03 11 13 00-0078 LF 28" Diameter Round Fiber Tube Formwork	39.66	
For Plastic Lined, Add	4.36	
For Columns >12' In Length, Add	3.97	
03 11 13 00-0079 LF 30" Diameter Round Fiber Tube Formwork	42.13	
For Plastic Lined, Add	4.97	
For Columns >12' In Length, Add	4.21	
03 11 13 00-0080 LF 36" Diameter Round Fiber Tube Formwork	50.85	
For Plastic Lined, Add	7.11	
For Columns >12' In Length, Add	5.09	
03 11 13 00-0081 LF 42" Diameter Round Fiber Tube Formwork	68.55	
For Plastic Lined, Add	12.07	
For Columns >12' In Length, Add	6.86	
03 11 13 00-0082 LF 48" Diameter Round Fiber Tube Formwork	81.32	
For Plastic Lined, Add	15.56	
For Columns >12' In Length, Add	8.13	
03 11 13 00-0083 LF 54" Diameter Round Fiber Tube Formwork	133.61	
For Plastic Lined, Add	30.69	
For Columns >12' In Length, Add	13.36	
03 11 13 00-0084 LF 60" Diameter Round Fiber Tube Formwork	148.30	
For Plastic Lined, Add	34.67	
For Columns >12' In Length, Add	14.83	
03 11 13 00-0085 Accessories For Formwork (03 11 13)		
03 11 13 00-0086 Keyway Forms, All Materials (03 11 13 00-0085)		
03 11 13 00-0087 LF 2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials.....	1.91	
03 11 13 00-0088 Chamfer Strips, All Materials (03 11 13 00-0085)		
03 11 13 00-0089 LF 1/2" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.02	
03 11 13 00-0090 LF 3/4" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.33	
03 11 13 00-0091 LF 1" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.69	
03 11 13 00-0092 Strip Out Reglets For Concrete Formwork (03 11 13 00-0085)		
03 11 13 00-0093 LF 24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork	9.53	
03 11 13 00-0094 Sleeves And Chases, Plastic Or Sheet Metal (03 11 13 00-0085)		
03 11 13 00-0095 EA 2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	11.68	
03 11 13 00-0096 EA 4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	14.17	
03 11 13 00-0097 EA 6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	17.14	
03 11 13 00-0098 EA 8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	19.53	
03 11 13 00-0099 EA 12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	25.17	
03 11 13 00-0100 EA 18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	55.71	
03 11 16 Architectural Cast-In-Place Concrete Forming (03 11)		
03 11 16 13 Concrete Form Liners (03 11 16)		
03 11 16 13-0001 Concrete Form Liners (03 11 16 13)		
03 11 16 13-0002 SF Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork.....	4.84	
03 11 16 13-0003 SF Rusticated Concrete Finish, Beveled Edge, 1 Use, Concrete Form Liner, Add To Formwork	6.32	
03 11 16 13-0004 SF Rusticated Concrete Finish, Square Edge, 1 Use, Concrete Form Liner, Add To Formwork.....	8.31	
03 11 23 Permanent Stair Forming (03 11)		
03 11 23 00-0001 Stairway Wood Formwork (03 11 23)		
03 11 23 00-0002 SF Cast On Grade Stairway Wood Formwork	15.70	
For Curved Formwork, Add	6.09	
For <1,000, Add	3.08	
03 11 23 00-0003 SF Elevated Stairway Wood Formwork	31.05	
Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
For Curved Formwork, Add	11.89	
For <1,000, Add	6.03	
03 11 23 00-0004 Stairway Metal Framed Formwork (03 11 23)		
03 11 23 00-0005 SF Cast On Grade Stairway Metal Framed Formwork	12.64	
For Curved Formwork, Add	4.95	
For <1,000, Add	2.49	
03 11 23 00-0006 SF Elevated Stairway Metal Framed Formwork	23.66	
Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
For Curved Formwork, Add	9.21	
For <1,000, Add	4.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 15 Concrete Accessories (03 10)

03 15 13 Waterstops (03 15)

03 15 13 13 Non-Expanding Waterstops (03 15 13)

03 15 13 13-0001 Polyvinyl Chloride (PVC) Waterstops (03 15 13 13)

03 15 13 13-0002	LF	3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	7.54	
03 15 13 13-0003	LF	3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	8.47	
03 15 13 13-0004	LF	3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	10.16	
03 15 13 13-0005	LF	3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	11.13	
03 15 13 13-0006	LF	1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	16.52	
03 15 13 13-0007	LF	3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	8.20	
03 15 13 13-0008	LF	3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	10.29	
03 15 13 13-0009	LF	3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop	18.01	
03 15 13 13-0010	LF	3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb	14.30	

03 15 13 13-0011 Rubber Waterstops (03 15 13 13)

03 15 13 13-0012	LF	3/8" Thick x 6" Wide Rubber Dumbbell Waterstop	8.61	
03 15 13 13-0013	LF	3/8" Thick x 9" Wide Rubber Dumbbell Waterstop	9.92	
03 15 13 13-0014	LF	1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb	9.09	
03 15 13 13-0015	LF	1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb	12.53	
03 15 13 13-0016	LF	3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb	10.31	
03 15 13 13-0017	LF	3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb	13.28	

03 15 13 16 Expanding Waterstops (03 15 13)

03 15 13 16-0001 Bentonite Waterstops (03 15 13 16)

03 15 13 16-0002	LF	3/4" x 3/8" Bentonite Waterstop	6.65	
03 15 13 16-0003	LF	1-1/4" x 1/2" Bentonite Waterstop	10.15	
03 15 13 16-0004	LF	1" x 3/4" Bentonite Waterstop	11.39	
03 15 13 16-0005	LF	1" x 1" Bentonite Waterstop	12.87	

03 15 16 Concrete Construction Joints (03 15)

03 15 16 00-0001 Poured Expansion Joint (03 15 16)

03 15 16 00-0002	LF	1/2" x 1" Plain Asphalt Expansion Joint, Poured	2.12	0.70
		<i>For Installation In Walls, Add</i>	1.16	
03 15 16 00-0003	LF	1" x 2" Plain Asphalt Expansion Joint, Poured	3.78	0.70
		<i>For Installation In Walls, Add</i>	1.32	
03 15 16 00-0004	LF	1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied	2.66	0.70
		<i>For Installation In Walls, Add</i>	1.16	
03 15 16 00-0005	LF	1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied	6.22	0.70
		<i>For Installation In Walls, Add</i>	1.32	
03 15 16 00-0006	LF	1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts	3.82	0.70
		<i>For Installation In Walls, Add</i>	1.32	
03 15 16 00-0007	LF	1" x 2" Polyurethane Expansion Joint, Poured, 2 Parts	6.95	0.70
		<i>For Installation In Walls, Add</i>	2.14	
03 15 16 00-0008	LF	1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied	1.74	0.70
		<i>For Installation In Walls, Add</i>	1.16	
03 15 16 00-0009	LF	1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	1.95	0.70
		<i>For Installation In Walls, Add</i>	1.16	
03 15 16 00-0010	LF	1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	2.48	0.70
		<i>For Installation In Walls, Add</i>	1.32	

03 15 16 00-0011 Premolded Expansion Joints (03 15 16)

03 15 16 00-0012 Asphalt Saturated Fiber, Premolded Expansion Joints (03 15 16 00-0011)

03 15 16 00-0013	LF	1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.04	0.96
03 15 16 00-0014	LF	1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	2.28	1.02
03 15 16 00-0015	LF	1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	2.43	1.07
03 15 16 00-0016	LF	1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	2.60	1.11
03 15 16 00-0017	LF	3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.17	0.96
03 15 16 00-0018	LF	3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	2.38	1.02
03 15 16 00-0019	LF	3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	2.62	1.07
03 15 16 00-0020	LF	3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	2.96	1.11
03 15 16 00-0021	LF	1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint	1.99	0.91
03 15 16 00-0022	LF	1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.15	0.96
03 15 16 00-0023	LF	1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	2.33	1.02
03 15 16 00-0024	LF	1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	2.48	1.07
03 15 16 00-0025	LF	1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	2.67	1.11
03 15 16 00-0026	LF	1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	2.91	1.16
03 15 16 00-0027	LF	1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint	3.11	1.21
03 15 16 00-0028	LF	1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint	3.43	1.26
03 15 16 00-0029	LF	3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	2.34	1.02
03 15 16 00-0030	LF	3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	2.61	1.07
03 15 16 00-0031	LF	3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	3.11	1.16
03 15 16 00-0032	SF	1" Asphalt Saturated Fiber, Premolded Expansion Joint	5.13	1.59



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 15 16 00-0033	Cork, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0034	LF 1/2" x 4" Cork, Premolded Expansion Joint	3.07	1.02
03 15 16 00-0035	LF 1/2" x 6" Cork, Premolded Expansion Joint	3.44	1.11
03 15 16 00-0036	LF 1/2" x 8" Cork, Premolded Expansion Joint	3.70	1.16
03 15 16 00-0037	LF 1/2" x 10" Cork, Premolded Expansion Joint	4.92	1.21
03 15 16 00-0038	LF 1/2" x 12" Cork, Premolded Expansion Joint	5.22	1.26
03 15 16 00-0039	SF 1/2" Cork, Premolded Expansion Joint	5.91	1.59
03 15 16 00-0040	SF 3/4" Cork, Premolded Expansion Joint	6.68	1.59
03 15 16 00-0041	SF 1" Cork, Premolded Expansion Joint	7.04	1.59
03 15 16 00-0042	Flexible Polyethylene Foam, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0043	LF 1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	2.19	1.02
03 15 16 00-0044	LF 1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	2.29	1.07
03 15 16 00-0045	LF 1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	2.41	1.11
03 15 16 00-0046	LF 1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	2.71	1.16
03 15 16 00-0047	LF 1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	2.24	1.02
03 15 16 00-0048	LF 1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	2.34	1.07
03 15 16 00-0049	LF 1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	2.44	1.11
03 15 16 00-0050	LF 1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	2.63	1.16
03 15 16 00-0051	Zip Strip, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0052	LF 1" Zip Strip, Premolded Expansion Joint	2.21	1.02
03 15 16 00-0053	LF 1-1/2" Zip Strip, Premolded Expansion Joint	2.38	1.07
03 15 16 00-0054	LF 2" Zip Strip, Premolded Expansion Joint	2.63	1.16
03 15 16 00-0055	Sponge Rubber, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0056	LF 1/2" x 4" Sponge Rubber, Premolded Expansion Joint	4.03	0.96
03 15 16 00-0057	LF 1/2" x 6" Sponge Rubber, Premolded Expansion Joint	4.83	0.96
03 15 16 00-0058	Asphalt Felt Control Joints Or Bond Breaker (03 15 16)		
03 15 16 00-0059	SF Asphalt Felt Control Joint, 30 LB Felt Bond Breaker	1.08	0.72
	>1,250, Deduct	-0.05	
03 15 16 00-0060	SF Asphalt Felt Control Joint, 15 LB Felt Bond Breaker	1.02	0.72
	>1,250, Deduct	-0.05	
03 15 16 00-0061	Keyed Cold Expansion And Control Joints (03 15 16)		
03 15 16 00-0062	24 Gauge Galvanized Steel With Stakes (03 15 16 00-0061)		
03 15 16 00-0063	LF 24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint	5.50	
03 15 16 00-0064	LF 24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint	5.60	
03 15 16 00-0065	LF 24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint	5.80	
03 15 16 00-0066	LF 24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint	6.15	
03 15 16 00-0067	LF 24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint	7.68	
03 15 19	Cast-In Concrete Anchors (03 15)		
03 15 19 00-0001	Cast In Place Anchors (03 15 19) Note: For cast in place installations. Includes nut and washer.		
03 15 19 00-0002	J-Type Anchor Bolts (03 15 19 00-0001) See CSI section 03 11 13 00-0002 for template.		
03 15 19 00-0003	1/2" And 5/8" Diameter (03 15 19 00-0002)		
03 15 19 00-0004	EA 1/2" Diameter x 6" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	7.27	
	For Galvanized, Add	0.90	
	For Stainless Steel, Add	6.27	
	For >10 To 50, Deduct	-0.27	
	For >50 To 100, Deduct	-0.59	
	For >100, Deduct	-1.19	
03 15 19 00-0005	EA 1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	8.18	
	For Galvanized, Add	1.14	
	For Stainless Steel, Add	7.98	
	For >10 To 50, Deduct	-0.30	
	For >50 To 100, Deduct	-0.65	
	For >100, Deduct	-1.29	
03 15 19 00-0006	EA 1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	9.54	
	For Galvanized, Add	1.57	
	For Stainless Steel, Add	10.99	
	For >10 To 50, Deduct	-0.32	
	For >50 To 100, Deduct	-0.72	
	For >100, Deduct	-1.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0007 EA 5/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	10.50	
For Galvanized, Add	2.05	
For Stainless Steel, Add	14.35	
For >10 To 50, Deduct	-0.32	
For >50 To 100, Deduct	-0.74	
For >100, Deduct	-1.49	
03 15 19 00-0008 EA 5/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	12.46	
For Galvanized, Add	2.74	
For Stainless Steel, Add	19.18	
For >10 To 50, Deduct	-0.35	
For >50 To 100, Deduct	-0.84	
For >100, Deduct	-1.67	
03 15 19 00-0009 EA 5/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	13.93	
For Galvanized, Add	3.13	
For Stainless Steel, Add	21.91	
For >10 To 50, Deduct	-0.38	
For >50 To 100, Deduct	-0.92	
For >100, Deduct	-1.85	
03 15 19 00-0010 3/4" And 7/8" Diameter (03 15 19 00-0002)		
03 15 19 00-0011 EA 3/4" Diameter x 8" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	13.89	
For Galvanized, Add	3.11	
For Stainless Steel, Add	21.77	
For >10 To 50, Deduct	-0.38	
For >50 To 100, Deduct	-0.92	
For >100, Deduct	-1.85	
03 15 19 00-0012 EA 3/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	15.78	
For Galvanized, Add	3.63	
For Stainless Steel, Add	25.38	
For >10 To 50, Deduct	-0.43	
For >50 To 100, Deduct	-1.03	
For >100, Deduct	-2.07	
03 15 19 00-0013 EA 3/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	18.87	
For Galvanized, Add	4.64	
For Stainless Steel, Add	32.48	
For >10 To 50, Deduct	-0.48	
For >50 To 100, Deduct	-1.19	
For >100, Deduct	-2.38	
03 15 19 00-0014 EA 3/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	22.45	
For Galvanized, Add	5.85	
For Stainless Steel, Add	40.95	
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.37	
For >100, Deduct	-2.74	
03 15 19 00-0015 EA 7/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	18.09	
For Galvanized, Add	4.25	
For Stainless Steel, Add	29.75	
For >10 To 50, Deduct	-0.48	
For >50 To 100, Deduct	-1.17	
For >100, Deduct	-2.34	
03 15 19 00-0016 EA 7/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	21.14	
For Galvanized, Add	5.09	
For Stainless Steel, Add	35.60	
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.35	
For >100, Deduct	-2.70	
03 15 19 00-0017 EA 7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	26.35	
For Galvanized, Add	6.78	
For Stainless Steel, Add	47.46	
For >10 To 50, Deduct	-0.64	
For >50 To 100, Deduct	-1.62	
For >100, Deduct	-3.24	
03 15 19 00-0018 1" And 1-1/8" Diameter (03 15 19 00-0002)		
03 15 19 00-0019 EA 1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	21.96	
For Galvanized, Add	5.50	
For Stainless Steel, Add	38.47	
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.37	
For >100, Deduct	-2.74	
03 15 19 00-0020 EA 1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	26.02	
For Galvanized, Add	6.62	
For Stainless Steel, Add	46.31	
For >10 To 50, Deduct	-0.64	
For >50 To 100, Deduct	-1.61	
For >100, Deduct	-3.22	
03 15 19 00-0021 EA 1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	31.93	
For Galvanized, Add	8.29	
For Stainless Steel, Add	58.03	
For >10 To 50, Deduct	-0.77	
For >50 To 100, Deduct	-1.95	
For >100, Deduct	-3.90	

03 Concrete**03 10 Concrete Forming And Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0022	EA		1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	39.46	
			<i>For Galvanized, Add</i>	10.13	
			<i>For Stainless Steel, Add</i>	70.91	
			<i>For >10 To 50, Deduct</i>	-0.96	
			<i>For >50 To 100, Deduct</i>	-2.43	
			<i>For >100, Deduct</i>	-4.85	
03 15 19 00-0023	EA		1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	25.78	
			<i>For Galvanized, Add</i>	6.87	
			<i>For Stainless Steel, Add</i>	48.09	
			<i>For >10 To 50, Deduct</i>	-0.60	
			<i>For >50 To 100, Deduct</i>	-1.55	
			<i>For >100, Deduct</i>	-3.10	
03 15 19 00-0024	EA		1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	30.59	
			<i>For Galvanized, Add</i>	8.27	
			<i>For Stainless Steel, Add</i>	57.89	
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.82	
			<i>For >100, Deduct</i>	-3.64	
03 15 19 00-0025	EA		1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	37.59	
			<i>For Galvanized, Add</i>	10.37	
			<i>For Stainless Steel, Add</i>	72.56	
			<i>For >10 To 50, Deduct</i>	-0.84	
			<i>For >50 To 100, Deduct</i>	-2.20	
			<i>For >100, Deduct</i>	-4.41	
03 15 19 00-0026	EA		1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	46.39	
			<i>For Galvanized, Add</i>	12.66	
			<i>For Stainless Steel, Add</i>	88.62	
			<i>For >10 To 50, Deduct</i>	-1.05	
			<i>For >50 To 100, Deduct</i>	-2.74	
			<i>For >100, Deduct</i>	-5.48	
03 15 19 00-0027			1-1/4" And 1-1/2" Diameter <small>(03 15 19 00-0002)</small>	30.50	
03 15 19 00-0028	EA		1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	30.50	
			<i>For Galvanized, Add</i>	8.59	
			<i>For Stainless Steel, Add</i>	60.10	
			<i>For >10 To 50, Deduct</i>	-0.67	
			<i>For >50 To 100, Deduct</i>	-1.76	
			<i>For >100, Deduct</i>	-3.52	
03 15 19 00-0029	EA		1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	36.23	
			<i>For Galvanized, Add</i>	10.34	
			<i>For Stainless Steel, Add</i>	72.35	
			<i>For >10 To 50, Deduct</i>	-0.78	
			<i>For >50 To 100, Deduct</i>	-2.07	
			<i>For >100, Deduct</i>	-4.15	
03 15 19 00-0030	EA		1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	44.59	
			<i>For Galvanized, Add</i>	12.96	
			<i>For Stainless Steel, Add</i>	90.72	
			<i>For >10 To 50, Deduct</i>	-0.93	
			<i>For >50 To 100, Deduct</i>	-2.52	
			<i>For >100, Deduct</i>	-5.03	
03 15 19 00-0031	EA		1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	54.98	
			<i>For Galvanized, Add</i>	15.83	
			<i>For Stainless Steel, Add</i>	110.78	
			<i>For >10 To 50, Deduct</i>	-1.17	
			<i>For >50 To 100, Deduct</i>	-3.12	
			<i>For >100, Deduct</i>	-6.25	
03 15 19 00-0032	EA		1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	36.42	
			<i>For Galvanized, Add</i>	10.74	
			<i>For Stainless Steel, Add</i>	75.15	
			<i>For >10 To 50, Deduct</i>	-0.75	
			<i>For >50 To 100, Deduct</i>	-2.03	
			<i>For >100, Deduct</i>	-4.06	
03 15 19 00-0033	EA		1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	43.29	
			<i>For Galvanized, Add</i>	12.92	
			<i>For Stainless Steel, Add</i>	90.44	
			<i>For >10 To 50, Deduct</i>	-0.87	
			<i>For >50 To 100, Deduct</i>	-2.39	
			<i>For >100, Deduct</i>	-4.78	
03 15 19 00-0034	EA		1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	53.35	
			<i>For Galvanized, Add</i>	16.20	
			<i>For Stainless Steel, Add</i>	113.40	
			<i>For >10 To 50, Deduct</i>	-1.05	
			<i>For >50 To 100, Deduct</i>	-2.91	
			<i>For >100, Deduct</i>	-5.81	
03 15 19 00-0035	EA		1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	65.73	
			<i>For Galvanized, Add</i>	19.79	
			<i>For Stainless Steel, Add</i>	138.50	
			<i>For >10 To 50, Deduct</i>	-1.31	
			<i>For >50 To 100, Deduct</i>	-3.61	
			<i>For >100, Deduct</i>	-7.21	

03 15 19 00-0036 L-Type Anchor Bolts (03 15 19 00-0001)
See CSI section 03 11 13 00-0002 for template.



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0037 3/4" And 7/8" Diameter <small>(03 15 19 00-0036)</small>						
	03 15 19 00-0038	EA		3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	13.28	
				<i>For Galvanized, Add</i>	2.38	
				<i>For Stainless Steel, Add</i>	16.63	
				<i>For >10 To 50, Deduct</i>	-0.43	
				<i>For >50 To 100, Deduct</i>	-0.97	
				<i>For >100, Deduct</i>	-1.94	
	03 15 19 00-0039	EA		3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	15.46	
				<i>For Galvanized, Add</i>	2.94	
				<i>For Stainless Steel, Add</i>	20.55	
				<i>For >10 To 50, Deduct</i>	-0.48	
				<i>For >50 To 100, Deduct</i>	-1.11	
				<i>For >100, Deduct</i>	-2.21	
	03 15 19 00-0040	EA		3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	17.70	
				<i>For Galvanized, Add</i>	3.37	
				<i>For Stainless Steel, Add</i>	23.56	
				<i>For >10 To 50, Deduct</i>	-0.55	
				<i>For >50 To 100, Deduct</i>	-1.27	
				<i>For >100, Deduct</i>	-2.53	
	03 15 19 00-0041	EA		3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	19.78	
				<i>For Galvanized, Add</i>	3.50	
				<i>For Stainless Steel, Add</i>	24.47	
				<i>For >10 To 50, Deduct</i>	-0.64	
				<i>For >50 To 100, Deduct</i>	-1.45	
				<i>For >100, Deduct</i>	-2.91	
	03 15 19 00-0042	EA		3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	22.68	
				<i>For Galvanized, Add</i>	3.67	
				<i>For Stainless Steel, Add</i>	25.66	
				<i>For >10 To 50, Deduct</i>	-0.77	
				<i>For >50 To 100, Deduct</i>	-1.72	
				<i>For >100, Deduct</i>	-3.44	
	03 15 19 00-0043	EA		7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	15.48	
				<i>For Galvanized, Add</i>	2.95	
				<i>For Stainless Steel, Add</i>	20.62	
				<i>For >10 To 50, Deduct</i>	-0.48	
				<i>For >50 To 100, Deduct</i>	-1.11	
				<i>For >100, Deduct</i>	-2.21	
	03 15 19 00-0044	EA		7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	17.84	
				<i>For Galvanized, Add</i>	3.44	
				<i>For Stainless Steel, Add</i>	24.05	
				<i>For >10 To 50, Deduct</i>	-0.55	
				<i>For >50 To 100, Deduct</i>	-1.27	
				<i>For >100, Deduct</i>	-2.54	
	03 15 19 00-0045	EA		7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	20.66	
				<i>For Galvanized, Add</i>	3.94	
				<i>For Stainless Steel, Add</i>	27.55	
				<i>For >10 To 50, Deduct</i>	-0.64	
				<i>For >50 To 100, Deduct</i>	-1.48	
				<i>For >100, Deduct</i>	-2.95	
	03 15 19 00-0046	EA		7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	23.52	
				<i>For Galvanized, Add</i>	4.09	
				<i>For Stainless Steel, Add</i>	28.60	
				<i>For >10 To 50, Deduct</i>	-0.77	
				<i>For >50 To 100, Deduct</i>	-1.74	
				<i>For >100, Deduct</i>	-3.48	
	03 15 19 00-0047	EA		7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	27.79	
				<i>For Galvanized, Add</i>	4.30	
				<i>For Stainless Steel, Add</i>	30.07	
				<i>For >10 To 50, Deduct</i>	-0.96	
				<i>For >50 To 100, Deduct</i>	-2.13	
				<i>For >100, Deduct</i>	-4.27	
03 15 19 00-0048 1" And 1-1/8" Diameter <small>(03 15 19 00-0036)</small>						
	03 15 19 00-0049	EA		1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	18.53	
				<i>For Galvanized, Add</i>	3.78	
				<i>For Stainless Steel, Add</i>	26.46	
				<i>For >10 To 50, Deduct</i>	-0.55	
				<i>For >50 To 100, Deduct</i>	-1.29	
				<i>For >100, Deduct</i>	-2.57	
	03 15 19 00-0050	EA		1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	21.29	
				<i>For Galvanized, Add</i>	4.25	
				<i>For Stainless Steel, Add</i>	29.75	
				<i>For >10 To 50, Deduct</i>	-0.64	
				<i>For >50 To 100, Deduct</i>	-1.49	
				<i>For >100, Deduct</i>	-2.98	
	03 15 19 00-0051	EA		1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	24.85	
				<i>For Galvanized, Add</i>	4.75	
				<i>For Stainless Steel, Add</i>	33.25	
				<i>For >10 To 50, Deduct</i>	-0.77	
				<i>For >50 To 100, Deduct</i>	-1.77	
				<i>For >100, Deduct</i>	-3.55	

03 Concrete**03 10 Concrete Forming And Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0052	EA		1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	26.64	
			<i>For Galvanized, Add</i>	4.98	
			<i>For Stainless Steel, Add</i>	34.83	
			<i>For >10 To 50, Deduct</i>	-0.83	
			<i>For >50 To 100, Deduct</i>	-1.92	
			<i>For >100, Deduct</i>	-3.84	
03 15 19 00-0053	EA		1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	29.62	
			<i>For Galvanized, Add</i>	5.21	
			<i>For Stainless Steel, Add</i>	36.47	
			<i>For >10 To 50, Deduct</i>	-0.96	
			<i>For >50 To 100, Deduct</i>	-2.18	
			<i>For >100, Deduct</i>	-4.36	
03 15 19 00-0054	EA		1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	33.41	
			<i>For Galvanized, Add</i>	6.04	
			<i>For Stainless Steel, Add</i>	42.28	
			<i>For >10 To 50, Deduct</i>	-1.07	
			<i>For >50 To 100, Deduct</i>	-2.44	
			<i>For >100, Deduct</i>	-4.87	
03 15 19 00-0055	EA		1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	39.72	
			<i>For Galvanized, Add</i>	7.07	
			<i>For Stainless Steel, Add</i>	49.46	
			<i>For >10 To 50, Deduct</i>	-1.28	
			<i>For >50 To 100, Deduct</i>	-2.91	
			<i>For >100, Deduct</i>	-5.82	
03 15 19 00-0056	EA		1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	22.73	
			<i>For Galvanized, Add</i>	4.97	
			<i>For Stainless Steel, Add</i>	34.79	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.53	
			<i>For >100, Deduct</i>	-3.06	
03 15 19 00-0057	EA		1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	26.48	
			<i>For Galvanized, Add</i>	5.57	
			<i>For Stainless Steel, Add</i>	38.96	
			<i>For >10 To 50, Deduct</i>	-0.77	
			<i>For >50 To 100, Deduct</i>	-1.81	
			<i>For >100, Deduct</i>	-3.63	
03 15 19 00-0058	EA		1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	28.33	
			<i>For Galvanized, Add</i>	5.82	
			<i>For Stainless Steel, Add</i>	40.74	
			<i>For >10 To 50, Deduct</i>	-0.83	
			<i>For >50 To 100, Deduct</i>	-1.96	
			<i>For >100, Deduct</i>	-3.92	
03 15 19 00-0059			1-1/4" And 1-3/8" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0060	EA		1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	27.37	
			<i>For Galvanized, Add</i>	6.01	
			<i>For Stainless Steel, Add</i>	42.07	
			<i>For >10 To 50, Deduct</i>	-0.77	
			<i>For >50 To 100, Deduct</i>	-1.84	
			<i>For >100, Deduct</i>	-3.67	
03 15 19 00-0061	EA		1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	33.27	
			<i>For Galvanized, Add</i>	7.04	
			<i>For Stainless Steel, Add</i>	49.25	
			<i>For >10 To 50, Deduct</i>	-0.96	
			<i>For >50 To 100, Deduct</i>	-2.27	
			<i>For >100, Deduct</i>	-4.54	
03 15 19 00-0062	EA		1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	36.13	
			<i>For Galvanized, Add</i>	7.97	
			<i>For Stainless Steel, Add</i>	55.76	
			<i>For >10 To 50, Deduct</i>	-1.01	
			<i>For >50 To 100, Deduct</i>	-2.42	
			<i>For >100, Deduct</i>	-4.84	
03 15 19 00-0063	EA		1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	39.32	
			<i>For Galvanized, Add</i>	9.00	
			<i>For Stainless Steel, Add</i>	62.97	
			<i>For >10 To 50, Deduct</i>	-1.07	
			<i>For >50 To 100, Deduct</i>	-2.58	
			<i>For >100, Deduct</i>	-5.17	
03 15 19 00-0064	EA		1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	43.56	
			<i>For Galvanized, Add</i>	9.79	
			<i>For Stainless Steel, Add</i>	68.50	
			<i>For >10 To 50, Deduct</i>	-1.20	
			<i>For >50 To 100, Deduct</i>	-2.89	
			<i>For >100, Deduct</i>	-5.78	
03 15 19 00-0065	EA		1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	48.37	
			<i>For Galvanized, Add</i>	10.48	
			<i>For Stainless Steel, Add</i>	73.33	
			<i>For >10 To 50, Deduct</i>	-1.37	
			<i>For >50 To 100, Deduct</i>	-3.27	
			<i>For >100, Deduct</i>	-6.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0066 EA 1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	54.42	
For Galvanized, Add	11.22	
For Stainless Steel, Add	78.51	
For >10 To 50, Deduct	-1.60	
For >50 To 100, Deduct	-3.76	
For >100, Deduct	-7.52	
03 15 19 00-0067 EA 1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	63.18	
For Galvanized, Add	12.40	
For Stainless Steel, Add	86.80	
For >10 To 50, Deduct	-1.92	
For >50 To 100, Deduct	-4.46	
For >100, Deduct	-8.92	
03 15 19 00-0068 EA 1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	30.38	
For Galvanized, Add	7.52	
For Stainless Steel, Add	52.61	
For >10 To 50, Deduct	-0.77	
For >50 To 100, Deduct	-1.91	
For >100, Deduct	-3.82	
03 15 19 00-0069 EA 1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	36.79	
For Galvanized, Add	8.80	
For Stainless Steel, Add	61.57	
For >10 To 50, Deduct	-0.96	
For >50 To 100, Deduct	-2.36	
For >100, Deduct	-4.72	
03 15 19 00-0070 EA 1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	40.11	
For Galvanized, Add	9.96	
For Stainless Steel, Add	69.69	
For >10 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.52	
For >100, Deduct	-5.04	
03 15 19 00-0071 EA 1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	43.81	
For Galvanized, Add	11.24	
For Stainless Steel, Add	78.68	
For >10 To 50, Deduct	-1.07	
For >50 To 100, Deduct	-2.70	
For >100, Deduct	-5.39	
03 15 19 00-0072 EA 1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	48.45	
For Galvanized, Add	12.23	
For Stainless Steel, Add	85.61	
For >10 To 50, Deduct	-1.20	
For >50 To 100, Deduct	-3.01	
For >100, Deduct	-6.02	
03 15 19 00-0073 EA 1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	53.62	
For Galvanized, Add	13.10	
For Stainless Steel, Add	91.70	
For >10 To 50, Deduct	-1.37	
For >50 To 100, Deduct	-3.40	
For >100, Deduct	-6.79	
03 15 19 00-0074 EA 1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	60.26	
For Galvanized, Add	14.14	
For Stainless Steel, Add	98.95	
For >10 To 50, Deduct	-1.60	
For >50 To 100, Deduct	-3.91	
For >100, Deduct	-7.81	
03 15 19 00-0075 EA 1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	69.38	
For Galvanized, Add	15.50	
For Stainless Steel, Add	108.50	
For >10 To 50, Deduct	-1.92	
For >50 To 100, Deduct	-4.61	
For >100, Deduct	-9.23	
03 15 19 00-0076 1-1/2", 1-3/4", And 2" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0077 EA 1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	38.28	
For Galvanized, Add	10.42	
For Stainless Steel, Add	72.91	
For >10 To 50, Deduct	-0.87	
For >50 To 100, Deduct	-2.27	
For >100, Deduct	-4.53	
03 15 19 00-0078 EA 1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	42.05	
For Galvanized, Add	10.93	
For Stainless Steel, Add	76.48	
For >10 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.57	
For >100, Deduct	-5.13	
03 15 19 00-0079 EA 1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	46.62	
For Galvanized, Add	12.02	
For Stainless Steel, Add	84.14	
For >10 To 50, Deduct	-1.13	
For >50 To 100, Deduct	-2.86	
For >100, Deduct	-5.72	

03 Concrete**03 10 Concrete Forming And Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0080	EA		1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	50.25	
			<i>For Galvanized, Add</i>	13.13	
			<i>For Stainless Steel, Add</i>	91.91	
			<i>For >10 To 50, Deduct</i>	-1.20	
			<i>For >50 To 100, Deduct</i>	-3.06	
			<i>For >100, Deduct</i>	-6.11	
03 15 19 00-0081	EA		1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	54.08	
			<i>For Galvanized, Add</i>	14.25	
			<i>For Stainless Steel, Add</i>	99.72	
			<i>For >10 To 50, Deduct</i>	-1.28	
			<i>For >50 To 100, Deduct</i>	-3.27	
			<i>For >100, Deduct</i>	-6.54	
03 15 19 00-0082	EA		1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	60.16	
			<i>For Galvanized, Add</i>	15.32	
			<i>For Stainless Steel, Add</i>	107.24	
			<i>For >10 To 50, Deduct</i>	-1.48	
			<i>For >50 To 100, Deduct</i>	-3.72	
			<i>For >100, Deduct</i>	-7.44	
03 15 19 00-0083	EA		1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	68.03	
			<i>For Galvanized, Add</i>	16.57	
			<i>For Stainless Steel, Add</i>	115.99	
			<i>For >10 To 50, Deduct</i>	-1.74	
			<i>For >50 To 100, Deduct</i>	-4.32	
			<i>For >100, Deduct</i>	-8.64	
03 15 19 00-0084	EA		1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	79.41	
			<i>For Galvanized, Add</i>	18.38	
			<i>For Stainless Steel, Add</i>	128.63	
			<i>For >10 To 50, Deduct</i>	-2.13	
			<i>For >50 To 100, Deduct</i>	-5.18	
			<i>For >100, Deduct</i>	-10.37	
03 15 19 00-0085	EA		1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	50.54	
			<i>For Galvanized, Add</i>	15.67	
			<i>For Stainless Steel, Add</i>	109.69	
			<i>For >10 To 50, Deduct</i>	-0.96	
			<i>For >50 To 100, Deduct</i>	-2.70	
			<i>For >100, Deduct</i>	-5.41	
03 15 19 00-0086	EA		1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	53.35	
			<i>For Galvanized, Add</i>	16.01	
			<i>For Stainless Steel, Add</i>	112.07	
			<i>For >10 To 50, Deduct</i>	-1.07	
			<i>For >50 To 100, Deduct</i>	-2.93	
			<i>For >100, Deduct</i>	-5.87	
03 15 19 00-0087	EA		1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	55.12	
			<i>For Galvanized, Add</i>	16.27	
			<i>For Stainless Steel, Add</i>	113.89	
			<i>For >10 To 50, Deduct</i>	-1.13	
			<i>For >50 To 100, Deduct</i>	-3.07	
			<i>For >100, Deduct</i>	-6.14	
03 15 19 00-0088	EA		1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	61.57	
			<i>For Galvanized, Add</i>	18.79	
			<i>For Stainless Steel, Add</i>	131.53	
			<i>For >10 To 50, Deduct</i>	-1.20	
			<i>For >50 To 100, Deduct</i>	-3.34	
			<i>For >100, Deduct</i>	-6.68	
03 15 19 00-0089	EA		1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	70.80	
			<i>For Galvanized, Add</i>	21.69	
			<i>For Stainless Steel, Add</i>	151.83	
			<i>For >10 To 50, Deduct</i>	-1.37	
			<i>For >50 To 100, Deduct</i>	-3.83	
			<i>For >100, Deduct</i>	-7.65	
03 15 19 00-0090	EA		1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	75.94	
			<i>For Galvanized, Add</i>	21.98	
			<i>For Stainless Steel, Add</i>	153.83	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-4.30	
			<i>For >100, Deduct</i>	-8.60	
03 15 19 00-0091	EA		1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	85.84	
			<i>For Galvanized, Add</i>	23.73	
			<i>For Stainless Steel, Add</i>	166.11	
			<i>For >10 To 50, Deduct</i>	-1.92	
			<i>For >50 To 100, Deduct</i>	-5.02	
			<i>For >100, Deduct</i>	-10.05	
03 15 19 00-0092	EA		1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	99.10	
			<i>For Galvanized, Add</i>	25.56	
			<i>For Stainless Steel, Add</i>	178.92	
			<i>For >10 To 50, Deduct</i>	-2.40	
			<i>For >50 To 100, Deduct</i>	-6.08	
			<i>For >100, Deduct</i>	-12.15	
03 15 19 00-0093	EA		2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	70.29	
			<i>For Galvanized, Add</i>	23.86	
			<i>For Stainless Steel, Add</i>	166.99	
			<i>For >10 To 50, Deduct</i>	-1.13	
			<i>For >50 To 100, Deduct</i>	-3.45	
			<i>For >100, Deduct</i>	-6.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0094	EA		2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	77.17	
			<i>For Galvanized, Add</i>	25.79	
			<i>For Stainless Steel, Add</i>	180.53	
			<i>For >10 To 50, Deduct</i>	-1.28	
			<i>For >50 To 100, Deduct</i>	-3.85	
			<i>For >100, Deduct</i>	-7.70	
03 15 19 00-0095	EA		2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	85.74	
			<i>For Galvanized, Add</i>	28.11	
			<i>For Stainless Steel, Add</i>	196.77	
			<i>For >10 To 50, Deduct</i>	-1.48	
			<i>For >50 To 100, Deduct</i>	-4.36	
			<i>For >100, Deduct</i>	-8.72	
03 15 19 00-0096	EA		2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	94.43	
			<i>For Galvanized, Add</i>	29.77	
			<i>For Stainless Steel, Add</i>	208.39	
			<i>For >10 To 50, Deduct</i>	-1.74	
			<i>For >50 To 100, Deduct</i>	-4.98	
			<i>For >100, Deduct</i>	-9.96	
03 15 19 00-0097	EA		2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	102.36	
			<i>For Galvanized, Add</i>	31.99	
			<i>For Stainless Steel, Add</i>	223.93	
			<i>For >10 To 50, Deduct</i>	-1.92	
			<i>For >50 To 100, Deduct</i>	-5.44	
			<i>For >100, Deduct</i>	-10.88	
03 15 19 00-0098	EA		2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	110.98	
			<i>For Galvanized, Add</i>	34.16	
			<i>For Stainless Steel, Add</i>	239.12	
			<i>For >10 To 50, Deduct</i>	-2.13	
			<i>For >50 To 100, Deduct</i>	-5.97	
			<i>For >100, Deduct</i>	-11.95	
03 15 19 00-0099	EA		2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	128.20	
			<i>For Galvanized, Add</i>	36.69	
			<i>For Stainless Steel, Add</i>	256.80	
			<i>For >10 To 50, Deduct</i>	-2.74	
			<i>For >50 To 100, Deduct</i>	-7.32	
			<i>For >100, Deduct</i>	-14.63	
03 15 19 00-0100	EA		2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	135.49	
			<i>For Galvanized, Add</i>	40.33	
			<i>For Stainless Steel, Add</i>	282.31	
			<i>For >10 To 50, Deduct</i>	-2.74	
			<i>For >50 To 100, Deduct</i>	-7.50	
			<i>For >100, Deduct</i>	-15.00	
03 15 19 00-0101	EA		2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	153.63	
			<i>For Galvanized, Add</i>	44.83	
			<i>For Stainless Steel, Add</i>	313.81	
			<i>For >10 To 50, Deduct</i>	-3.20	
			<i>For >50 To 100, Deduct</i>	-8.64	
			<i>For >100, Deduct</i>	-17.28	
03 15 19 00-0102			2-1/2" And 2-3/4" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0103	EA		2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	128.58	
			<i>For Galvanized, Add</i>	53.00	
			<i>For Stainless Steel, Add</i>	371.00	
			<i>For >10 To 50, Deduct</i>	-1.13	
			<i>For >50 To 100, Deduct</i>	-4.91	
			<i>For >100, Deduct</i>	-9.82	
03 15 19 00-0104	EA		2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	136.38	
			<i>For Galvanized, Add</i>	55.40	
			<i>For Stainless Steel, Add</i>	387.77	
			<i>For >10 To 50, Deduct</i>	-1.28	
			<i>For >50 To 100, Deduct</i>	-5.33	
			<i>For >100, Deduct</i>	-10.66	
03 15 19 00-0105	EA		2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	149.67	
			<i>For Galvanized, Add</i>	60.08	
			<i>For Stainless Steel, Add</i>	420.53	
			<i>For >10 To 50, Deduct</i>	-1.48	
			<i>For >50 To 100, Deduct</i>	-5.96	
			<i>For >100, Deduct</i>	-11.91	
03 15 19 00-0106	EA		2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	161.51	
			<i>For Galvanized, Add</i>	63.31	
			<i>For Stainless Steel, Add</i>	443.17	
			<i>For >10 To 50, Deduct</i>	-1.74	
			<i>For >50 To 100, Deduct</i>	-6.65	
			<i>For >100, Deduct</i>	-13.31	
03 15 19 00-0107	EA		2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	171.79	
			<i>For Galvanized, Add</i>	66.71	
			<i>For Stainless Steel, Add</i>	466.94	
			<i>For >10 To 50, Deduct</i>	-1.92	
			<i>For >50 To 100, Deduct</i>	-7.17	
			<i>For >100, Deduct</i>	-14.35	

03	Concrete
03 10	Concrete Forming And Accessories
03 15	Concrete Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15	19 00-0108	EA	2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	183.67	
			For Galvanized, Add	70.51	
			For Stainless Steel, Add	493.54	
			For >10 To 50, Deduct	-2.13	
			For >50 To 100, Deduct	-7.79	
			For >100, Deduct	-15.58	
03 15	19 00-0109	EA	2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	203.63	
			For Galvanized, Add	74.40	
			For Stainless Steel, Add	520.80	
			For >10 To 50, Deduct	-2.74	
			For >50 To 100, Deduct	-9.20	
			For >100, Deduct	-18.41	
03 15	19 00-0110	EA	2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	143.98	
			For Galvanized, Add	60.00	
			For Stainless Steel, Add	419.97	
			For >10 To 50, Deduct	-1.20	
			For >50 To 100, Deduct	-5.40	
			For >100, Deduct	-10.80	
03 15	19 00-0111	EA	2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	155.78	
			For Galvanized, Add	64.18	
			For Stainless Steel, Add	449.26	
			For >10 To 50, Deduct	-1.37	
			For >50 To 100, Deduct	-5.95	
			For >100, Deduct	-11.90	
03 15	19 00-0112	EA	2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	168.79	
			For Galvanized, Add	68.40	
			For Stainless Steel, Add	478.80	
			For >10 To 50, Deduct	-1.60	
			For >50 To 100, Deduct	-6.62	
			For >100, Deduct	-13.24	
03 15	19 00-0113	EA	2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	182.78	
			For Galvanized, Add	72.20	
			For Stainless Steel, Add	505.40	
			For >10 To 50, Deduct	-1.92	
			For >50 To 100, Deduct	-7.45	
			For >100, Deduct	-14.90	
03 15	19 00-0114	EA	2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	195.37	
			For Galvanized, Add	76.36	
			For Stainless Steel, Add	534.49	
			For >10 To 50, Deduct	-2.13	
			For >50 To 100, Deduct	-8.08	
			For >100, Deduct	-16.17	
03 15	19 00-0115	EA	2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	212.49	
			For Galvanized, Add	82.26	
			For Stainless Steel, Add	575.79	
			For >10 To 50, Deduct	-2.40	
			For >50 To 100, Deduct	-8.91	
			For >100, Deduct	-17.82	
03 15	19 00-0116	EA	2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	237.52	
			For Galvanized, Add	86.78	
			For Stainless Steel, Add	607.43	
			For >10 To 50, Deduct	-3.20	
			For >50 To 100, Deduct	-10.74	
			For >100, Deduct	-21.47	

03 20 Concrete Reinforcing ⁽⁰³⁾

Note: Includes cutting or torching to size, bending where necessary and tie wires.

03 21 Reinforcement Bars ^(03 20)

Note: Includes cutting, bending, tie wire, tying, bar chairs and all non-mechanical splicing. The weights of reinforcing steel shall be used as follows: #2 - 0.167 Lbs./LF, #3 - 0.376 Lbs./LF, #4 - 0.668 Lbs./LF, #5 - 1.043 Lbs./LF, #6 - 1.502 Lbs./LF, #7 - 2.044 Lbs./LF, #8 - 2.670 Lbs./LF, #9 - 3.400 Lbs./LF, #10 - 4.303 Lbs./LF, #11 - 5.313 Lbs./LF, #14 - 7.650 Lbs./LF, #18 - 13.600 Lbs./LF.

03 21 11 Plain Steel Reinforcement Bars ^(03 21)

03 21 11 00-0001	Beams And Girders, Steel Reinforcement Bar ^(03 21 11)	
	Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.	
03 21 11 00-0002	LF #3, Grade 40, Beams And Girders, Steel Reinforcement Bar	0.54
03 21 11 00-0003	LF #4, Grade 40, Beams And Girders, Steel Reinforcement Bar	0.90
03 21 11 00-0004	LF #5, Grade 40, Beams And Girders, Steel Reinforcement Bar	1.35
03 21 11 00-0005	LF #6, Grade 40, Beams And Girders, Steel Reinforcement Bar	1.85
03 21 11 00-0006	LF #3, Grade 50, Beams And Girders, Steel Reinforcement Bar	0.55
03 21 11 00-0007	LF #4, Grade 50, Beams And Girders, Steel Reinforcement Bar	0.92
03 21 11 00-0008	LF #5, Grade 50, Beams And Girders, Steel Reinforcement Bar	1.38
03 21 11 00-0009	LF #6, Grade 50, Beams And Girders, Steel Reinforcement Bar	1.89
03 21 11 00-0010	LF #3, Grade 60, Beams And Girders, Steel Reinforcement Bar	0.57
03 21 11 00-0011	LF #4, Grade 60, Beams And Girders, Steel Reinforcement Bar	0.94
03 21 11 00-0012	LF #5, Grade 60, Beams And Girders, Steel Reinforcement Bar	1.42
03 21 11 00-0013	LF #6, Grade 60, Beams And Girders, Steel Reinforcement Bar	1.95
03 21 11 00-0014	LF #7, Grade 60, Beams And Girders, Steel Reinforcement Bar	2.53
03 21 11 00-0015	LF #8, Grade 60, Beams And Girders, Steel Reinforcement Bar	3.12
03 21 11 00-0016	LF #9, Grade 60, Beams And Girders, Steel Reinforcement Bar	3.83
03 21 11 00-0017	LF #10, Grade 60, Beams And Girders, Steel Reinforcement Bar	4.65
03 21 11 00-0018	LF #11, Grade 60, Beams And Girders, Steel Reinforcement Bar	5.51



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0019	LF		#14, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	7.61	
03 21 11 00-0020	LF		#18, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	12.94	
03 21 11 00-0021	LF		#6, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.01	
03 21 11 00-0022	LF		#7, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.61	
03 21 11 00-0023	LF		#8, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	3.23	
03 21 11 00-0024	LF		#9, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	3.96	
03 21 11 00-0025	LF		#10, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	4.83	
03 21 11 00-0026	LF		#11, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	5.73	
03 21 11 00-0027	LF		#14, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	7.91	
03 21 11 00-0028	LF		#18, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	13.48	
03 21 11 00-0029	LF		#3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	0.58	
03 21 11 00-0030	LF		#4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	0.96	
03 21 11 00-0031	LF		#5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	1.45	
03 21 11 00-0032	LF		#6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	1.99	
03 21 11 00-0033	LF		#7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	2.59	
03 21 11 00-0034	LF		#8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	3.21	
03 21 11 00-0035	LF		#9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	3.93	
03 21 11 00-0036	LF		#10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	4.78	
03 21 11 00-0037	LF		#11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	5.67	
03 21 11 00-0038	LF		#14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	7.84	
03 21 11 00-0039	LF		#18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	13.35	

03 21 11 00-0040 Columns, Steel Reinforcement Bar (03 21 11)

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0041	LF		#3, Grade 40, Columns, Steel Reinforcement Bar.....	0.56	
03 21 11 00-0042	LF		#4, Grade 40, Columns, Steel Reinforcement Bar.....	0.96	
03 21 11 00-0043	LF		#5, Grade 40, Columns, Steel Reinforcement Bar.....	1.42	
03 21 11 00-0044	LF		#6, Grade 40, Columns, Steel Reinforcement Bar.....	1.95	
03 21 11 00-0045	LF		#3, Grade 50, Columns, Steel Reinforcement Bar.....	0.57	
03 21 11 00-0046	LF		#4, Grade 50, Columns, Steel Reinforcement Bar.....	0.98	
03 21 11 00-0047	LF		#5, Grade 50, Columns, Steel Reinforcement Bar.....	1.45	
03 21 11 00-0048	LF		#6, Grade 50, Columns, Steel Reinforcement Bar.....	1.99	
03 21 11 00-0049	LF		#3, Grade 60, Columns, Steel Reinforcement Bar.....	0.59	
03 21 11 00-0050	LF		#4, Grade 60, Columns, Steel Reinforcement Bar.....	1.00	
03 21 11 00-0051	LF		#5, Grade 60, Columns, Steel Reinforcement Bar.....	1.49	
03 21 11 00-0052	LF		#6, Grade 60, Columns, Steel Reinforcement Bar.....	2.05	
03 21 11 00-0053	LF		#7, Grade 60, Columns, Steel Reinforcement Bar.....	2.66	
03 21 11 00-0054	LF		#8, Grade 60, Columns, Steel Reinforcement Bar.....	3.27	
03 21 11 00-0055	LF		#9, Grade 60, Columns, Steel Reinforcement Bar.....	4.00	
03 21 11 00-0056	LF		#10, Grade 60, Columns, Steel Reinforcement Bar.....	4.85	
03 21 11 00-0057	LF		#11, Grade 60, Columns, Steel Reinforcement Bar.....	5.74	
03 21 11 00-0058	LF		#14, Grade 60, Columns, Steel Reinforcement Bar.....	7.91	
03 21 11 00-0059	LF		#18, Grade 60, Columns, Steel Reinforcement Bar.....	13.41	
03 21 11 00-0060	LF		#6, Grade 75, Columns, Steel Reinforcement Bar.....	2.11	
03 21 11 00-0061	LF		#7, Grade 75, Columns, Steel Reinforcement Bar.....	2.74	
03 21 11 00-0062	LF		#8, Grade 75, Columns, Steel Reinforcement Bar.....	3.38	
03 21 11 00-0063	LF		#9, Grade 75, Columns, Steel Reinforcement Bar.....	4.13	
03 21 11 00-0064	LF		#10, Grade 75, Columns, Steel Reinforcement Bar.....	5.03	
03 21 11 00-0065	LF		#11, Grade 75, Columns, Steel Reinforcement Bar.....	5.96	
03 21 11 00-0066	LF		#14, Grade 75, Columns, Steel Reinforcement Bar.....	8.21	
03 21 11 00-0067	LF		#18, Grade 75, Columns, Steel Reinforcement Bar.....	13.95	
03 21 11 00-0068	LF		#3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	0.60	
03 21 11 00-0069	LF		#4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	1.02	
03 21 11 00-0070	LF		#5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	1.52	
03 21 11 00-0071	LF		#6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	2.09	
03 21 11 00-0072	LF		#7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	2.72	
03 21 11 00-0073	LF		#8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	3.36	
03 21 11 00-0074	LF		#9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	4.10	
03 21 11 00-0075	LF		#10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	4.98	
03 21 11 00-0076	LF		#11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	5.90	
03 21 11 00-0077	LF		#14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	8.14	
03 21 11 00-0078	LF		#18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	13.82	

03 21 11 00-0079 Footings, Steel Reinforcement Bar (03 21 11)

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0080	LF		#3, Grade 40, Footings, Steel Reinforcement Bar.....	0.48	
03 21 11 00-0081	LF		#4, Grade 40, Footings, Steel Reinforcement Bar.....	0.83	
03 21 11 00-0082	LF		#5, Grade 40, Footings, Steel Reinforcement Bar.....	1.23	
03 21 11 00-0083	LF		#6, Grade 40, Footings, Steel Reinforcement Bar.....	1.69	
03 21 11 00-0084	LF		#3, Grade 50, Footings, Steel Reinforcement Bar.....	0.49	
03 21 11 00-0085	LF		#4, Grade 50, Footings, Steel Reinforcement Bar.....	0.85	
03 21 11 00-0086	LF		#5, Grade 50, Footings, Steel Reinforcement Bar.....	1.26	
03 21 11 00-0087	LF		#6, Grade 50, Footings, Steel Reinforcement Bar.....	1.73	
03 21 11 00-0088	LF		#3, Grade 60, Footings, Steel Reinforcement Bar.....	0.51	
03 21 11 00-0089	LF		#4, Grade 60, Footings, Steel Reinforcement Bar.....	0.87	
03 21 11 00-0090	LF		#5, Grade 60, Footings, Steel Reinforcement Bar.....	1.30	
03 21 11 00-0091	LF		#6, Grade 60, Footings, Steel Reinforcement Bar.....	1.79	
03 21 11 00-0092	LF		#7, Grade 60, Footings, Steel Reinforcement Bar.....	2.33	
03 21 11 00-0093	LF		#8, Grade 60, Footings, Steel Reinforcement Bar.....	2.90	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21 11 00-0094	LF	#9, Grade 60, Footings, Steel Reinforcement Bar	3.56
03 21 11 00-0095	LF	#10, Grade 60, Footings, Steel Reinforcement Bar	4.34
03 21 11 00-0096	LF	#11, Grade 60, Footings, Steel Reinforcement Bar	5.17
03 21 11 00-0097	LF	#14, Grade 60, Footings, Steel Reinforcement Bar	7.17
03 21 11 00-0098	LF	#18, Grade 60, Footings, Steel Reinforcement Bar	12.24
03 21 11 00-0099	LF	#6, Grade 75, Footings, Steel Reinforcement Bar	1.85
03 21 11 00-0100	LF	#7, Grade 75, Footings, Steel Reinforcement Bar	2.41
03 21 11 00-0101	LF	#8, Grade 75, Footings, Steel Reinforcement Bar	3.01
03 21 11 00-0102	LF	#9, Grade 75, Footings, Steel Reinforcement Bar	3.69
03 21 11 00-0103	LF	#10, Grade 75, Footings, Steel Reinforcement Bar	4.52
03 21 11 00-0104	LF	#11, Grade 75, Footings, Steel Reinforcement Bar	5.39
03 21 11 00-0105	LF	#14, Grade 75, Footings, Steel Reinforcement Bar	7.47
03 21 11 00-0106	LF	#18, Grade 75, Footings, Steel Reinforcement Bar	12.78
03 21 11 00-0107	LF	#3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.52
03 21 11 00-0108	LF	#4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.89
03 21 11 00-0109	LF	#5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.33
03 21 11 00-0110	LF	#6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.83
03 21 11 00-0111	LF	#7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.39
03 21 11 00-0112	LF	#8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.99
03 21 11 00-0113	LF	#9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.66
03 21 11 00-0114	LF	#10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	4.47
03 21 11 00-0115	LF	#11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	5.33
03 21 11 00-0116	LF	#14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	7.40
03 21 11 00-0117	LF	#18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	12.65

03 21 11 00-0118 Slab On Grade, Steel Reinforcement Bar (03 21 11)

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0119	LF	#3, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.47
03 21 11 00-0120	LF	#4, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.80
03 21 11 00-0121	LF	#5, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.19
03 21 11 00-0122	LF	#6, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.64
03 21 11 00-0123	LF	#3, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.48
03 21 11 00-0124	LF	#4, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.82
03 21 11 00-0125	LF	#5, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.22
03 21 11 00-0126	LF	#6, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.68
03 21 11 00-0127	LF	#3, Grade 60, Slab On Grade, Steel Reinforcement Bar	0.50
03 21 11 00-0128	LF	#4, Grade 60, Slab On Grade, Steel Reinforcement Bar	0.84
03 21 11 00-0129	LF	#5, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.26
03 21 11 00-0130	LF	#6, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.74
03 21 11 00-0131	LF	#7, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.27
03 21 11 00-0132	LF	#8, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.81
03 21 11 00-0133	LF	#9, Grade 60, Slab On Grade, Steel Reinforcement Bar	3.48
03 21 11 00-0134	LF	#10, Grade 60, Slab On Grade, Steel Reinforcement Bar	4.24
03 21 11 00-0135	LF	#11, Grade 60, Slab On Grade, Steel Reinforcement Bar	5.06
03 21 11 00-0136	LF	#14, Grade 60, Slab On Grade, Steel Reinforcement Bar	7.01
03 21 11 00-0137	LF	#18, Grade 60, Slab On Grade, Steel Reinforcement Bar	11.99
03 21 11 00-0138	LF	#6, Grade 75, Slab On Grade, Steel Reinforcement Bar	1.80
03 21 11 00-0139	LF	#7, Grade 75, Slab On Grade, Steel Reinforcement Bar	2.35
03 21 11 00-0140	LF	#8, Grade 75, Slab On Grade, Steel Reinforcement Bar	2.92
03 21 11 00-0141	LF	#9, Grade 75, Slab On Grade, Steel Reinforcement Bar	3.61
03 21 11 00-0142	LF	#10, Grade 75, Slab On Grade, Steel Reinforcement Bar	4.42
03 21 11 00-0143	LF	#11, Grade 75, Slab On Grade, Steel Reinforcement Bar	5.28
03 21 11 00-0144	LF	#14, Grade 75, Slab On Grade, Steel Reinforcement Bar	7.31
03 21 11 00-0145	LF	#18, Grade 75, Slab On Grade, Steel Reinforcement Bar	12.53
03 21 11 00-0146	LF	#3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	0.51
03 21 11 00-0147	LF	#4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	0.86
03 21 11 00-0148	LF	#5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	1.29
03 21 11 00-0149	LF	#6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	1.78
03 21 11 00-0150	LF	#7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	2.33
03 21 11 00-0151	LF	#8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	2.90
03 21 11 00-0152	LF	#9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	3.58
03 21 11 00-0153	LF	#10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	4.37
03 21 11 00-0154	LF	#11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	5.22
03 21 11 00-0155	LF	#14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	7.24
03 21 11 00-0156	LF	#18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	12.40

03 21 11 00-0157 Elevated Slabs, Steel Reinforcement Bar (03 21 11)

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0158	LF	#3, Grade 40, Elevated Slabs, Steel Reinforcement Bar	0.43
03 21 11 00-0159	LF	#4, Grade 40, Elevated Slabs, Steel Reinforcement Bar	0.74
03 21 11 00-0160	LF	#5, Grade 40, Elevated Slabs, Steel Reinforcement Bar	1.11
03 21 11 00-0161	LF	#6, Grade 40, Elevated Slabs, Steel Reinforcement Bar	1.53
03 21 11 00-0162	LF	#3, Grade 50, Elevated Slabs, Steel Reinforcement Bar	0.44
03 21 11 00-0163	LF	#4, Grade 50, Elevated Slabs, Steel Reinforcement Bar	0.76
03 21 11 00-0164	LF	#5, Grade 50, Elevated Slabs, Steel Reinforcement Bar	1.14
03 21 11 00-0165	LF	#6, Grade 50, Elevated Slabs, Steel Reinforcement Bar	1.57
03 21 11 00-0166	LF	#3, Grade 60, Elevated Slabs, Steel Reinforcement Bar	0.46
03 21 11 00-0167	LF	#4, Grade 60, Elevated Slabs, Steel Reinforcement Bar	0.78
03 21 11 00-0168	LF	#5, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0169 LF #6, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.63	
03 21 11 00-0170 LF #7, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.14	
03 21 11 00-0171 LF #8, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.65	
03 21 11 00-0172 LF #9, Grade 60, Elevated Slabs, Steel Reinforcement Bar	3.29	
03 21 11 00-0173 LF #10, Grade 60, Elevated Slabs, Steel Reinforcement Bar	4.04	
03 21 11 00-0174 LF #11, Grade 60, Elevated Slabs, Steel Reinforcement Bar	4.82	
03 21 11 00-0175 LF #14, Grade 60, Elevated Slabs, Steel Reinforcement Bar	6.72	
03 21 11 00-0176 LF #18, Grade 60, Elevated Slabs, Steel Reinforcement Bar	11.53	
03 21 11 00-0177 LF #6, Grade 75, Elevated Slabs, Steel Reinforcement Bar	1.69	
03 21 11 00-0178 LF #7, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.22	
03 21 11 00-0179 LF #8, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.76	
03 21 11 00-0180 LF #9, Grade 75, Elevated Slabs, Steel Reinforcement Bar	3.42	
03 21 11 00-0181 LF #10, Grade 75, Elevated Slabs, Steel Reinforcement Bar	4.22	
03 21 11 00-0182 LF #11, Grade 75, Elevated Slabs, Steel Reinforcement Bar	5.04	
03 21 11 00-0183 LF #14, Grade 75, Elevated Slabs, Steel Reinforcement Bar	7.02	
03 21 11 00-0184 LF #18, Grade 75, Elevated Slabs, Steel Reinforcement Bar	12.07	
03 21 11 00-0185 LF #3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	0.47	
03 21 11 00-0186 LF #4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	0.80	
03 21 11 00-0187 LF #5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.21	
03 21 11 00-0188 LF #6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.67	
03 21 11 00-0189 LF #7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	2.20	
03 21 11 00-0190 LF #8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	2.74	
03 21 11 00-0191 LF #9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	3.39	
03 21 11 00-0192 LF #10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	4.17	
03 21 11 00-0193 LF #11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	4.98	
03 21 11 00-0194 LF #14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	6.95	
03 21 11 00-0195 LF #18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	11.94	
03 21 11 00-0196	Walls, Steel Reinforcement Bar <small>(03 21 11)</small>	
Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0197 LF #3, Grade 40, Walls, Steel Reinforcement Bar	0.42	
03 21 11 00-0198 LF #4, Grade 40, Walls, Steel Reinforcement Bar	0.71	
03 21 11 00-0199 LF #5, Grade 40, Walls, Steel Reinforcement Bar	1.07	
03 21 11 00-0200 LF #6, Grade 40, Walls, Steel Reinforcement Bar	1.48	
03 21 11 00-0201 LF #3, Grade 50, Walls, Steel Reinforcement Bar	0.43	
03 21 11 00-0202 LF #4, Grade 50, Walls, Steel Reinforcement Bar	0.73	
03 21 11 00-0203 LF #5, Grade 50, Walls, Steel Reinforcement Bar	1.10	
03 21 11 00-0204 LF #6, Grade 50, Walls, Steel Reinforcement Bar	1.52	
03 21 11 00-0205 LF #3, Grade 60, Walls, Steel Reinforcement Bar	0.45	
03 21 11 00-0206 LF #4, Grade 60, Walls, Steel Reinforcement Bar	0.75	
03 21 11 00-0207 LF #5, Grade 60, Walls, Steel Reinforcement Bar	1.14	
03 21 11 00-0208 LF #6, Grade 60, Walls, Steel Reinforcement Bar	1.58	
03 21 11 00-0209 LF #7, Grade 60, Walls, Steel Reinforcement Bar	2.07	
03 21 11 00-0210 LF #8, Grade 60, Walls, Steel Reinforcement Bar	2.58	
03 21 11 00-0211 LF #9, Grade 60, Walls, Steel Reinforcement Bar	3.21	
03 21 11 00-0212 LF #10, Grade 60, Walls, Steel Reinforcement Bar	3.94	
03 21 11 00-0213 LF #11, Grade 60, Walls, Steel Reinforcement Bar	4.71	
03 21 11 00-0214 LF #14, Grade 60, Walls, Steel Reinforcement Bar	6.57	
03 21 11 00-0215 LF #18, Grade 60, Walls, Steel Reinforcement Bar	11.29	
03 21 11 00-0216 LF #6, Grade 75, Walls, Steel Reinforcement Bar	1.64	
03 21 11 00-0217 LF #7, Grade 75, Walls, Steel Reinforcement Bar	2.15	
03 21 11 00-0218 LF #8, Grade 75, Walls, Steel Reinforcement Bar	2.69	
03 21 11 00-0219 LF #9, Grade 75, Walls, Steel Reinforcement Bar	3.34	
03 21 11 00-0220 LF #10, Grade 75, Walls, Steel Reinforcement Bar	4.12	
03 21 11 00-0221 LF #11, Grade 75, Walls, Steel Reinforcement Bar	4.93	
03 21 11 00-0222 LF #14, Grade 75, Walls, Steel Reinforcement Bar	6.87	
03 21 11 00-0223 LF #18, Grade 75, Walls, Steel Reinforcement Bar	11.83	
03 21 11 00-0224 LF #3, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	0.46	
03 21 11 00-0225 LF #4, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	0.77	
03 21 11 00-0226 LF #5, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.17	
03 21 11 00-0227 LF #6, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.62	
03 21 11 00-0228 LF #7, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	2.13	
03 21 11 00-0229 LF #8, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	2.67	
03 21 11 00-0230 LF #9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	3.31	
03 21 11 00-0231 LF #10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	4.07	
03 21 11 00-0232 LF #11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	4.87	
03 21 11 00-0233 LF #14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	6.80	
03 21 11 00-0234 LF #18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	11.70	
03 21 11 00-0235	Mechanical Joint Connection <small>(03 21 11)</small>	
03 21 11 00-0236	Thermal Type Mechanical Joint Connection <small>(03 21 11 00-0235)</small>	
03 21 11 00-0237 EA Thermal Type Mechanical Joint Connection, Add Per Splice	174.01	
03 21 11 00-0238	Screwed Type Mechanical Joint Connection <small>(03 21 11 00-0235)</small>	
03 21 11 00-0239 EA Screwed Type Mechanical Joint Connection, Add Per Splice	95.67	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21 11 00-0240		Deformed Straight Dowels <small>(03 21 11)</small>	
Note: Excludes drilling. See CSI section 02 41 19 13-0276 for drilling in concrete.			
03 21 11 00-0241	EA	3/8" Diameter x 24" Long, Deformed Straight Dowel	2.30
		<i>For Up To 12" Length, Deduct</i>	-0.24
		<i>For >12" To <24" Length, Deduct</i>	-0.12
03 21 11 00-0242	EA	1/2" Diameter x 24" Long, Deformed Straight Dowel	2.73
		<i>For Up To 12" Length, Deduct</i>	-0.32
		<i>For >12" To <24" Length, Deduct</i>	-0.16
03 21 11 00-0243	EA	5/8" Diameter x 24" Long, Deformed Straight Dowel	3.29
		<i>For Up To 12" Length, Deduct</i>	-0.50
		<i>For >12" To <24" Length, Deduct</i>	-0.25
03 21 11 00-0244	EA	3/4" Diameter x 24" Long, Deformed Straight Dowel	3.95
		<i>For Up To 12" Length, Deduct</i>	-0.72
		<i>For >12" To <24" Length, Deduct</i>	-0.36
03 21 11 00-0245	EA	7/8" Diameter x 24" Long, Deformed Straight Dowel	4.61
		<i>For Up To 12" Length, Deduct</i>	-1.01
		<i>For >12" To <24" Length, Deduct</i>	-0.51
03 21 11 00-0246	EA	1" Diameter x 24" Long, Deformed Straight Dowel	5.81
		<i>For Up To 12" Length, Deduct</i>	-1.30
		<i>For >12" To <24" Length, Deduct</i>	-0.65
03 21 11 00-0247	EA	1-1/8" Diameter x 24" Long, Deformed Straight Dowel	6.83
		<i>For Up To 12" Length, Deduct</i>	-1.60
		<i>For >12" To <24" Length, Deduct</i>	-0.80
03 21 11 00-0248	EA	1-1/4" Diameter x 24" Long, Deformed Straight Dowel	8.31
		<i>For Up To 12" Length, Deduct</i>	-2.09
		<i>For >12" To <24" Length, Deduct</i>	-1.04
03 21 11 00-0249	EA	1-3/8" Diameter x 24" Long, Deformed Straight Dowel	9.82
		<i>For Up To 12" Length, Deduct</i>	-2.58
		<i>For >12" To <24" Length, Deduct</i>	-1.29

03 21 11 00-0250		Spirals, Reinforcing Steel <small>(03 21 11)</small>	
03 21 11 00-0251	TON	Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel	4,011.79
		<i>For Grade 75, Add</i>	194.39
03 21 11 00-0252	TON	>15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel	3,977.71
		<i>For Grade 75, Add</i>	194.39
03 21 11 00-0253	TON	>24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel	3,977.71
		<i>For Grade 75, Add</i>	194.39
03 21 11 00-0254	TON	>36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel	3,909.21
		<i>For Grade 75, Add</i>	194.39
03 21 11 00-0255	TON	>48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel	3,851.73
		<i>For Grade 75, Add</i>	194.39
03 21 11 00-0256	TON	>64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel	3,858.61
		<i>For Grade 75, Add</i>	199.17
03 21 11 00-0257	TON	>84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel	3,810.49
		<i>For Grade 75, Add</i>	199.17

03 21 11 00-0258 Accessories For Reinforcing Steel (03 21 11)

03 21 11 00-0259		Reinforcing Steel Weld Splice <small>(03 21 11 00-0258)</small>	
03 21 11 00-0260	EA	Up To #6 Reinforcing Steel Weld Splice	34.50
03 21 11 00-0261	EA	>#6 Reinforcing Steel Weld Splice	49.94

03 21 11 00-0262 Reinforcing Steel Sleeve And Wedge Splice Joint (03 21 11 00-0258)

03 21 11 00-0263	EA	Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint	26.05
03 21 11 00-0264	EA	#5 Reinforcing Steel, Sleeve And Wedge Splice Joint	38.56
03 21 11 00-0265	EA	#6 Reinforcing Steel, Sleeve And Wedge Splice Joint	56.22

03 21 13 Galvanized Reinforcement Steel Bars (03 21)

03 21 13 00-0001 Beams And Girders, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0002	LF	#3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	0.65
03 21 13 00-0003	LF	#4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.08
03 21 13 00-0004	LF	#5, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.64
03 21 13 00-0005	LF	#6, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	2.26
03 21 13 00-0006	LF	#3, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	0.66
03 21 13 00-0007	LF	#4, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.10
03 21 13 00-0008	LF	#5, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.67
03 21 13 00-0009	LF	#6, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	2.30
03 21 13 00-0010	LF	#3, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	0.67
03 21 13 00-0011	LF	#4, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.13
03 21 13 00-0012	LF	#5, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.71
03 21 13 00-0013	LF	#6, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	2.36
03 21 13 00-0014	LF	#7, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	3.09
03 21 13 00-0015	LF	#8, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	3.86
03 21 13 00-0016	LF	#9, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	4.76
03 21 13 00-0017	LF	#10, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	5.84
03 21 13 00-0018	LF	#11, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	6.97
03 21 13 00-0019	LF	#14, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	9.71



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0020 LF #18, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	16.68	
03 21 13 00-0021 LF #6, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	2.42	
03 21 13 00-0022 LF #7, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	3.17	
03 21 13 00-0023 LF #8, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	3.97	
03 21 13 00-0024 LF #9, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	4.90	
03 21 13 00-0025 LF #10, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	6.01	
03 21 13 00-0026 LF #11, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	7.19	
03 21 13 00-0027 LF #14, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	10.02	
03 21 13 00-0028 LF #18, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	17.22	
03 21 13 00-0029 Columns, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>		
<i>Note: ASTM A-767 Hot Dipped Galvanized Steel.</i>		
03 21 13 00-0030 LF #3, Grade 40, Columns, Galvanized Steel Reinforcement Bar	0.67	
03 21 13 00-0031 LF #4, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.14	
03 21 13 00-0032 LF #5, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.71	
03 21 13 00-0033 LF #6, Grade 40, Columns, Galvanized Steel Reinforcement Bar	2.36	
03 21 13 00-0034 LF #3, Grade 50, Columns, Galvanized Steel Reinforcement Bar	0.68	
03 21 13 00-0035 LF #4, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.16	
03 21 13 00-0036 LF #5, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.74	
03 21 13 00-0037 LF #6, Grade 50, Columns, Galvanized Steel Reinforcement Bar	2.40	
03 21 13 00-0038 LF #3, Grade 60, Columns, Galvanized Steel Reinforcement Bar	0.69	
03 21 13 00-0039 LF #4, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.19	
03 21 13 00-0040 LF #5, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.78	
03 21 13 00-0041 LF #6, Grade 60, Columns, Galvanized Steel Reinforcement Bar	2.46	
03 21 13 00-0042 LF #7, Grade 60, Columns, Galvanized Steel Reinforcement Bar	3.22	
03 21 13 00-0043 LF #8, Grade 60, Columns, Galvanized Steel Reinforcement Bar	4.01	
03 21 13 00-0044 LF #9, Grade 60, Columns, Galvanized Steel Reinforcement Bar	4.93	
03 21 13 00-0045 LF #10, Grade 60, Columns, Galvanized Steel Reinforcement Bar	6.04	
03 21 13 00-0046 LF #11, Grade 60, Columns, Galvanized Steel Reinforcement Bar	7.20	
03 21 13 00-0047 LF #14, Grade 60, Columns, Galvanized Steel Reinforcement Bar	10.01	
03 21 13 00-0048 LF #18, Grade 60, Columns, Galvanized Steel Reinforcement Bar	17.15	
03 21 13 00-0049 LF #6, Grade 75, Columns, Galvanized Steel Reinforcement Bar	2.52	
03 21 13 00-0050 LF #7, Grade 75, Columns, Galvanized Steel Reinforcement Bar	3.30	
03 21 13 00-0051 LF #8, Grade 75, Columns, Galvanized Steel Reinforcement Bar	4.12	
03 21 13 00-0052 LF #9, Grade 75, Columns, Galvanized Steel Reinforcement Bar	5.07	
03 21 13 00-0053 LF #10, Grade 75, Columns, Galvanized Steel Reinforcement Bar	6.21	
03 21 13 00-0054 LF #11, Grade 75, Columns, Galvanized Steel Reinforcement Bar	7.42	
03 21 13 00-0055 LF #14, Grade 75, Columns, Galvanized Steel Reinforcement Bar	10.32	
03 21 13 00-0056 LF #18, Grade 75, Columns, Galvanized Steel Reinforcement Bar	17.69	
03 21 13 00-0057 Footings, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>		
<i>Note: ASTM A-767 Hot Dipped Galvanized Steel.</i>		
03 21 13 00-0058 LF #3, Grade 40, Footings, Galvanized Steel Reinforcement Bar	0.59	
03 21 13 00-0059 LF #4, Grade 40, Footings, Galvanized Steel Reinforcement Bar	1.01	
03 21 13 00-0060 LF #5, Grade 40, Footings, Galvanized Steel Reinforcement Bar	1.52	
03 21 13 00-0061 LF #6, Grade 40, Footings, Galvanized Steel Reinforcement Bar	2.10	
03 21 13 00-0062 LF #3, Grade 50, Footings, Galvanized Steel Reinforcement Bar	0.60	
03 21 13 00-0063 LF #4, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.03	
03 21 13 00-0064 LF #5, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.55	
03 21 13 00-0065 LF #6, Grade 50, Footings, Galvanized Steel Reinforcement Bar	2.14	
03 21 13 00-0066 LF #3, Grade 60, Footings, Galvanized Steel Reinforcement Bar	0.61	
03 21 13 00-0067 LF #4, Grade 60, Footings, Galvanized Steel Reinforcement Bar	1.06	
03 21 13 00-0068 LF #5, Grade 60, Footings, Galvanized Steel Reinforcement Bar	1.59	
03 21 13 00-0069 LF #6, Grade 60, Footings, Galvanized Steel Reinforcement Bar	2.20	
03 21 13 00-0070 LF #7, Grade 60, Footings, Galvanized Steel Reinforcement Bar	2.89	
03 21 13 00-0071 LF #8, Grade 60, Footings, Galvanized Steel Reinforcement Bar	3.64	
03 21 13 00-0072 LF #9, Grade 60, Footings, Galvanized Steel Reinforcement Bar	4.49	
03 21 13 00-0073 LF #10, Grade 60, Footings, Galvanized Steel Reinforcement Bar	5.53	
03 21 13 00-0074 LF #11, Grade 60, Footings, Galvanized Steel Reinforcement Bar	6.63	
03 21 13 00-0075 LF #14, Grade 60, Footings, Galvanized Steel Reinforcement Bar	9.27	
03 21 13 00-0076 LF #18, Grade 60, Footings, Galvanized Steel Reinforcement Bar	15.98	
03 21 13 00-0077 LF #6, Grade 75, Footings, Galvanized Steel Reinforcement Bar	2.26	
03 21 13 00-0078 LF #7, Grade 75, Footings, Galvanized Steel Reinforcement Bar	2.97	
03 21 13 00-0079 LF #8, Grade 75, Footings, Galvanized Steel Reinforcement Bar	3.75	
03 21 13 00-0080 LF #9, Grade 75, Footings, Galvanized Steel Reinforcement Bar	4.63	
03 21 13 00-0081 LF #10, Grade 75, Footings, Galvanized Steel Reinforcement Bar	5.70	
03 21 13 00-0082 LF #11, Grade 75, Footings, Galvanized Steel Reinforcement Bar	6.85	
03 21 13 00-0083 LF #14, Grade 75, Footings, Galvanized Steel Reinforcement Bar	9.58	
03 21 13 00-0084 LF #18, Grade 75, Footings, Galvanized Steel Reinforcement Bar	16.52	
03 21 13 00-0085 Slab On Grade, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>		
<i>Note: ASTM A-767 Hot Dipped Galvanized Steel.</i>		
03 21 13 00-0086 LF #3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	0.58	
03 21 13 00-0087 LF #4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	0.98	
03 21 13 00-0088 LF #5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.48	
03 21 13 00-0089 LF #6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	2.05	
03 21 13 00-0090 LF #3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	0.59	
03 21 13 00-0091 LF #4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.00	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21 13 00-0092	LF	#5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.51
03 21 13 00-0093	LF	#6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	2.09
03 21 13 00-0094	LF	#3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	0.60
03 21 13 00-0095	LF	#4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	1.03
03 21 13 00-0096	LF	#5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	1.55
03 21 13 00-0097	LF	#6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	2.15
03 21 13 00-0098	LF	#7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	2.83
03 21 13 00-0099	LF	#8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	3.55
03 21 13 00-0100	LF	#9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	4.41
03 21 13 00-0101	LF	#10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	5.43
03 21 13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	6.52
03 21 13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	9.11
03 21 13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	15.73
03 21 13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	2.21
03 21 13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	2.91
03 21 13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	3.66
03 21 13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	4.55
03 21 13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	5.60
03 21 13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	6.74
03 21 13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	9.42
03 21 13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	16.27

03 21 13 00-0113 Elevated Slabs, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.54
03 21 13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.92
03 21 13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.40
03 21 13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.94
03 21 13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.55
03 21 13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.94
03 21 13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.43
03 21 13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.98
03 21 13 00-0122	LF	#3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.56
03 21 13 00-0123	LF	#4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.97
03 21 13 00-0124	LF	#5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.47
03 21 13 00-0125	LF	#6, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.04
03 21 13 00-0126	LF	#7, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.70
03 21 13 00-0127	LF	#8, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.39
03 21 13 00-0128	LF	#9, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.22
03 21 13 00-0129	LF	#10, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.23
03 21 13 00-0130	LF	#11, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	6.28
03 21 13 00-0131	LF	#14, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	8.82
03 21 13 00-0132	LF	#18, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	15.27
03 21 13 00-0133	LF	#6, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.10
03 21 13 00-0134	LF	#7, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.78
03 21 13 00-0135	LF	#8, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.50
03 21 13 00-0136	LF	#9, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.36
03 21 13 00-0137	LF	#10, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.40
03 21 13 00-0138	LF	#11, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	6.50
03 21 13 00-0139	LF	#14, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	9.13
03 21 13 00-0140	LF	#18, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	15.81

03 21 13 00-0141 Walls, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0142	LF	#3, Grade 40, Walls, Galvanized Steel Reinforcement Bar	0.53
03 21 13 00-0143	LF	#4, Grade 40, Walls, Galvanized Steel Reinforcement Bar	0.89
03 21 13 00-0144	LF	#5, Grade 40, Walls, Galvanized Steel Reinforcement Bar	1.36
03 21 13 00-0145	LF	#6, Grade 40, Walls, Galvanized Steel Reinforcement Bar	1.89
03 21 13 00-0146	LF	#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar	0.54
03 21 13 00-0147	LF	#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar	0.91
03 21 13 00-0148	LF	#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.39
03 21 13 00-0149	LF	#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.93
03 21 13 00-0150	LF	#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar	0.55
03 21 13 00-0151	LF	#4, Grade 60, Walls, Galvanized Steel Reinforcement Bar	0.94
03 21 13 00-0152	LF	#5, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.43
03 21 13 00-0153	LF	#6, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.99
03 21 13 00-0154	LF	#7, Grade 60, Walls, Galvanized Steel Reinforcement Bar	2.63
03 21 13 00-0155	LF	#8, Grade 60, Walls, Galvanized Steel Reinforcement Bar	3.32
03 21 13 00-0156	LF	#9, Grade 60, Walls, Galvanized Steel Reinforcement Bar	4.14
03 21 13 00-0157	LF	#10, Grade 60, Walls, Galvanized Steel Reinforcement Bar	5.13
03 21 13 00-0158	LF	#11, Grade 60, Walls, Galvanized Steel Reinforcement Bar	6.17
03 21 13 00-0159	LF	#14, Grade 60, Walls, Galvanized Steel Reinforcement Bar	8.67
03 21 13 00-0160	LF	#18, Grade 60, Walls, Galvanized Steel Reinforcement Bar	15.03
03 21 13 00-0161	LF	#6, Grade 75, Walls, Galvanized Steel Reinforcement Bar	2.05
03 21 13 00-0162	LF	#7, Grade 75, Walls, Galvanized Steel Reinforcement Bar	2.71
03 21 13 00-0163	LF	#8, Grade 75, Walls, Galvanized Steel Reinforcement Bar	3.43
03 21 13 00-0164	LF	#9, Grade 75, Walls, Galvanized Steel Reinforcement Bar	4.28
03 21 13 00-0165	LF	#10, Grade 75, Walls, Galvanized Steel Reinforcement Bar	5.30
03 21 13 00-0166	LF	#11, Grade 75, Walls, Galvanized Steel Reinforcement Bar	6.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 21 13 00-0167	LF	#14, Grade 75, Walls, Galvanized Steel Reinforcement Bar	8.98	
03 21 13 00-0168	LF	#18, Grade 75, Walls, Galvanized Steel Reinforcement Bar	15.57	

03 21 16 Epoxy-Coated Reinforcement Steel Bars (03 21)

03 21 16 00-0001 Beams And Girders, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0002	LF	#3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.63	
03 21 16 00-0003	LF	#4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.06	
03 21 16 00-0004	LF	#5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.61	
03 21 16 00-0005	LF	#6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.22	
03 21 16 00-0006	LF	#3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.64	
03 21 16 00-0007	LF	#4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.08	
03 21 16 00-0008	LF	#5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.63	
03 21 16 00-0009	LF	#6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.26	
03 21 16 00-0010	LF	#3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.66	
03 21 16 00-0011	LF	#4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.11	
03 21 16 00-0012	LF	#5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.68	
03 21 16 00-0013	LF	#6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.32	
03 21 16 00-0014	LF	#7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.03	
03 21 16 00-0015	LF	#8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.78	
03 21 16 00-0016	LF	#9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.66	
03 21 16 00-0017	LF	#10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.71	
03 21 16 00-0018	LF	#11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.82	
03 21 16 00-0019	LF	#14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	9.48	
03 21 16 00-0020	LF	#18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	16.27	
03 21 16 00-0021	LF	#6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.38	
03 21 16 00-0022	LF	#7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.11	
03 21 16 00-0023	LF	#8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.89	
03 21 16 00-0024	LF	#9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.80	
03 21 16 00-0025	LF	#10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.88	
03 21 16 00-0026	LF	#11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	7.03	
03 21 16 00-0027	LF	#14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	9.79	
03 21 16 00-0028	LF	#18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	16.82	

03 21 16 00-0029 Columns, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0030	LF	#3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	0.65	
03 21 16 00-0031	LF	#4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.12	
03 21 16 00-0032	LF	#5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.68	
03 21 16 00-0033	LF	#6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	2.32	
03 21 16 00-0034	LF	#3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	0.66	
03 21 16 00-0035	LF	#4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.14	
03 21 16 00-0036	LF	#5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.70	
03 21 16 00-0037	LF	#6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	2.36	
03 21 16 00-0038	LF	#3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	0.68	
03 21 16 00-0039	LF	#4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	1.17	
03 21 16 00-0040	LF	#5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	1.75	
03 21 16 00-0041	LF	#6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	2.42	
03 21 16 00-0042	LF	#7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	3.16	
03 21 16 00-0043	LF	#8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	3.93	
03 21 16 00-0044	LF	#9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	4.83	
03 21 16 00-0045	LF	#10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	5.91	
03 21 16 00-0046	LF	#11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	7.05	
03 21 16 00-0047	LF	#14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	9.78	
03 21 16 00-0048	LF	#18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	16.74	
03 21 16 00-0049	LF	#6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	2.48	
03 21 16 00-0050	LF	#7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	3.24	
03 21 16 00-0051	LF	#8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	4.04	
03 21 16 00-0052	LF	#9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	4.97	
03 21 16 00-0053	LF	#10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	6.08	
03 21 16 00-0054	LF	#11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	7.26	
03 21 16 00-0055	LF	#14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	10.09	
03 21 16 00-0056	LF	#18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	17.29	

03 21 16 00-0057 Footings, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0058	LF	#3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	0.57	
03 21 16 00-0059	LF	#4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	0.99	
03 21 16 00-0060	LF	#5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	1.49	
03 21 16 00-0061	LF	#6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	2.06	
03 21 16 00-0062	LF	#3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	0.58	
03 21 16 00-0063	LF	#4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	1.01	
03 21 16 00-0064	LF	#5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	1.51	
03 21 16 00-0065	LF	#6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	2.10	
03 21 16 00-0066	LF	#3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	0.60	
03 21 16 00-0067	LF	#4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	1.04	
03 21 16 00-0068	LF	#5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	1.56	
03 21 16 00-0069	LF	#6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	2.16	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21 16 00-0070	LF	#7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.83
03 21 16 00-0071	LF	#8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	3.56
03 21 16 00-0072	LF	#9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	4.39
03 21 16 00-0073	LF	#10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	5.40
03 21 16 00-0074	LF	#11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	6.48
03 21 16 00-0075	LF	#14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	9.04
03 21 16 00-0076	LF	#18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	15.57
03 21 16 00-0077	LF	#6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.22
03 21 16 00-0078	LF	#7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.91
03 21 16 00-0079	LF	#8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	3.67
03 21 16 00-0080	LF	#9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	4.53
03 21 16 00-0081	LF	#10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	5.57
03 21 16 00-0082	LF	#11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	6.69
03 21 16 00-0083	LF	#14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	9.35
03 21 16 00-0084	LF	#18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	16.12

03 21 16 00-0085 Slab On Grade, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0086	LF	#3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.56
03 21 16 00-0087	LF	#4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.96
03 21 16 00-0088	LF	#5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.45
03 21 16 00-0089	LF	#6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.01
03 21 16 00-0090	LF	#3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.57
03 21 16 00-0091	LF	#4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.98
03 21 16 00-0092	LF	#5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.47
03 21 16 00-0093	LF	#6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.05
03 21 16 00-0094	LF	#3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.59
03 21 16 00-0095	LF	#4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.01
03 21 16 00-0096	LF	#5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.52
03 21 16 00-0097	LF	#6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.11
03 21 16 00-0098	LF	#7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.77
03 21 16 00-0099	LF	#8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.47
03 21 16 00-0100	LF	#9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.31
03 21 16 00-0101	LF	#10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.30
03 21 16 00-0102	LF	#11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	6.37
03 21 16 00-0103	LF	#14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	8.88
03 21 16 00-0104	LF	#18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	15.32
03 21 16 00-0105	LF	#6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.17
03 21 16 00-0106	LF	#7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.85
03 21 16 00-0107	LF	#8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.58
03 21 16 00-0108	LF	#9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.45
03 21 16 00-0109	LF	#10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.47
03 21 16 00-0110	LF	#11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	6.58
03 21 16 00-0111	LF	#14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	9.19
03 21 16 00-0112	LF	#18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	15.87

03 21 16 00-0113 Elevated Slabs, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0114	LF	#3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.52
03 21 16 00-0115	LF	#4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.90
03 21 16 00-0116	LF	#5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.37
03 21 16 00-0117	LF	#6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.90
03 21 16 00-0118	LF	#3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.53
03 21 16 00-0119	LF	#4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.92
03 21 16 00-0120	LF	#5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.39
03 21 16 00-0121	LF	#6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.94
03 21 16 00-0122	LF	#3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.55
03 21 16 00-0123	LF	#4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.95
03 21 16 00-0124	LF	#5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.44
03 21 16 00-0125	LF	#6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.00
03 21 16 00-0126	LF	#7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.64
03 21 16 00-0127	LF	#8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.31
03 21 16 00-0128	LF	#9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.12
03 21 16 00-0129	LF	#10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.10
03 21 16 00-0130	LF	#11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	6.13
03 21 16 00-0131	LF	#14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	8.59
03 21 16 00-0132	LF	#18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	14.86
03 21 16 00-0133	LF	#6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.06
03 21 16 00-0134	LF	#7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.72
03 21 16 00-0135	LF	#8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.42
03 21 16 00-0136	LF	#9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.26
03 21 16 00-0137	LF	#10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.27
03 21 16 00-0138	LF	#11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	6.34
03 21 16 00-0139	LF	#14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	8.90
03 21 16 00-0140	LF	#18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	15.41

03 21 16 00-0141 Walls, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0142	LF		#3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.51	
03 21 16 00-0143	LF		#4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.87	
03 21 16 00-0144	LF		#5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.33	
03 21 16 00-0145	LF		#6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.85	
03 21 16 00-0146	LF		#3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.52	
03 21 16 00-0147	LF		#4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.89	
03 21 16 00-0148	LF		#5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.35	
03 21 16 00-0149	LF		#6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.89	
03 21 16 00-0150	LF		#3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.54	
03 21 16 00-0151	LF		#4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.92	
03 21 16 00-0152	LF		#5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.40	
03 21 16 00-0153	LF		#6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.95	
03 21 16 00-0154	LF		#7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.57	
03 21 16 00-0155	LF		#8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.24	
03 21 16 00-0156	LF		#9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.04	
03 21 16 00-0157	LF		#10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.00	
03 21 16 00-0158	LF		#11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	6.02	
03 21 16 00-0159	LF		#14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	8.44	
03 21 16 00-0160	LF		#18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	14.62	
03 21 16 00-0161	LF		#6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.01	
03 21 16 00-0162	LF		#7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.65	
03 21 16 00-0163	LF		#8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.35	
03 21 16 00-0164	LF		#9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.18	
03 21 16 00-0165	LF		#10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.17	
03 21 16 00-0166	LF		#11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	6.23	
03 21 16 00-0167	LF		#14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	8.75	
03 21 16 00-0168	LF		#18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	15.17	

03 21 16 00-0169 Epoxy Coated Deformed Straight Dowels (03 21 16)

Note: Excludes drilling. See CSI section 02 41 19 13-0276 for drilling in concrete.

03 21 16 00-0170	EA		3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	2.69	
			For Up To 12" Length, Deduct	-0.34	
			For >12" To <24" Length, Deduct	-0.17	
03 21 16 00-0171	EA		1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	3.21	
			For Up To 12" Length, Deduct	-0.51	
			For >12" To <24" Length, Deduct	-0.26	
03 21 16 00-0172	EA		5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	3.94	
			For Up To 12" Length, Deduct	-0.76	
			For >12" To <24" Length, Deduct	-0.38	
03 21 16 00-0173	EA		3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	4.68	
			For Up To 12" Length, Deduct	-1.02	
			For >12" To <24" Length, Deduct	-0.51	
03 21 16 00-0174	EA		7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	5.80	
			For Up To 12" Length, Deduct	-1.38	
			For >12" To <24" Length, Deduct	-0.69	
03 21 16 00-0175	EA		1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	6.83	
			For Up To 12" Length, Deduct	-1.70	
			For >12" To <24" Length, Deduct	-0.85	
03 21 16 00-0176	EA		1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	8.12	
			For Up To 12" Length, Deduct	-2.06	
			For >12" To <24" Length, Deduct	-1.03	
03 21 16 00-0177	EA		1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	9.75	
			For Up To 12" Length, Deduct	-2.50	
			For >12" To <24" Length, Deduct	-1.25	

03 22 Fabric And Grid Reinforcing (03 20)

03 22 11 Plain Steel Welded Wire Fabric Reinforcing (03 22)

Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.

03 22 11 00-0001 Welded Wire Fabric Placed In Floors Or Slabs Under 5 Tons (03 22 11)

Note: Includes bar chairs. Under 5 tons. ASTM A-185

03 22 11 00-0002	SF		6" x 6" x #10, 21 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.65	
			For >5 Ton, Deduct	-0.10	
03 22 11 00-0003	SF		6" x 6" x #8, 30 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.75	
			For >5 Ton, Deduct	-0.11	
03 22 11 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	0.84	
			For >5 Ton, Deduct	-0.13	
03 22 11 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	0.99	
			For >5 Ton, Deduct	-0.14	
03 22 11 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.78	
			For >5 Ton, Deduct	-0.12	
03 22 11 00-0007	SF		4" x 4" x #8, 44 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.86	
			For >5 Ton, Deduct	-0.13	
03 22 11 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.07	
			For >5 Ton, Deduct	-0.15	
03 22 11 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.24	
			For >5 Ton, Deduct	-0.17	
03 22 11 00-0010	SF		2" x 2" x #12, 37 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W0.9 x W0.9).....	1.15	
			For >5 Ton, Deduct	-0.15	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 22 13 Galvanized Welded Wire Fabric Reinforcing (03 22)

03 22 13 00-0001	Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 13)	
	Note: Includes bar chairs. Under 5 tons.	
03 22 13 00-0002	SF 6" x 6" x #10, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.71
	For >5 Ton, Deduct	-0.11
03 22 13 00-0003	SF 6" x 6" x #8, 29 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.82
	For >5 Ton, Deduct	-0.12
03 22 13 00-0004	SF 6" x 6" x #6, 42 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	0.94
	For >5 Ton, Deduct	-0.14
03 22 13 00-0005	SF 6" x 6" x #4, 58 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.12
	For >5 Ton, Deduct	-0.16
03 22 13 00-0006	SF 4" x 4" x #10, 31 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.87
	For >5 Ton, Deduct	-0.13
03 22 13 00-0007	SF 4" x 4" x #8, 43 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.97
	For >5 Ton, Deduct	-0.14
03 22 13 00-0008	SF 4" x 4" x #6, 62 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.25
	For >5 Ton, Deduct	-0.17
03 22 13 00-0009	SF 4" x 4" x #4, 85 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.47
	For >5 Ton, Deduct	-0.20

03 22 13 00-0010 Galvanized Welded Wire Reinforcement Wrap Placed In Beams And Columns (03 22 13)

03 22 13 00-0011	SF 2" x 2" x #14, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns (W0.5 x W0.5).....	2.59
	For >5 Ton, Deduct	-0.41

03 22 16 Epoxy-Coated Welded Wire Fabric Reinforcing (03 22)

03 22 16 00-0001	Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 16)	
	Note: Includes bar chairs. Under 5 tons.	
03 22 16 00-0002	SF 6" x 6" x #10, 21 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.70
	For >5 Ton, Deduct	-0.10
03 22 16 00-0003	SF 6" x 6" x #8, 29 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.81
	For >5 Ton, Deduct	-0.12
03 22 16 00-0004	SF 6" x 6" x #6, 42 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	0.92
	For >5 Ton, Deduct	-0.13
03 22 16 00-0005	SF 6" x 6" x #4, 58 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.11
	For >5 Ton, Deduct	-0.16
03 22 16 00-0006	SF 4" x 4" x #10, 31 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.86
	For >5 Ton, Deduct	-0.13
03 22 16 00-0007	SF 4" x 4" x #8, 43 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.96
	For >5 Ton, Deduct	-0.14
03 22 16 00-0008	SF 4" x 4" x #6, 62 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.23
	For >5 Ton, Deduct	-0.17
03 22 16 00-0009	SF 4" x 4" x #4, 85 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.44
	For >5 Ton, Deduct	-0.19

03 30 Cast-In-Place Concrete (03)

See CSI section 01 74 19 00-0051 for hauling over 15 miles.

03 30 53 Miscellaneous Cast-in-Place Concrete (03 30)

03 30 53 00-0001 Place Concrete Thrust Blocks And Backfill (03 30 53)

03 30 53 00-0002	CY Direct Chute, Place 3,000 PSI Concrete Thrust Blocks.....	220.34
	For 2,000 PSI Concrete, Deduct	-8.02
	For 2,500 PSI Concrete, Deduct	-4.01
	For 3,500 PSI Concrete, Add	7.42
	For 3,750 PSI Concrete, Add	10.09
	For 4,000 PSI Concrete, Add	12.77
	For 4,500 PSI Concrete, Add	14.84
	For 5,000 PSI Concrete, Add	16.92
	For 6,000 PSI Concrete, Add	40.08
	For 7,500 PSI Concrete, Add	99.53
	For White Cement Concrete, Add	17.81
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30
	For High Early Strength, Type 3 ASTM C150, Add	14.84
	For Lightweight Aggregate, ASTM C330, Add	44.53

03 30 53 00-0003 Place Concrete Slurry (03 30 53)

	Note: 2 bag cement per CY.	
03 30 53 00-0004	CY Direct Chute, Place 1,200 PSI Concrete Slurry.....	201.79
03 30 53 00-0005	CY Concrete Pump, Place 1,200 PSI Concrete Slurry.....	189.78
	Note: Excludes pumping equipment.	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Miscellaneous Cast-in-Place Concrete	03 30 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 30 53 00-0006 Hand Mix And Place Concrete <small>(03 30 53)</small>		
03 30 53 00-0007 CF Hand Mix And Place Concrete.....	30.22	
Note: For use where conventional equipment access is limited or when directed by the owner.		
For 2,000 PSI Concrete, Deduct	-0.34	
For 2,500 PSI Concrete, Deduct	-0.17	
For 3,500 PSI Concrete, Add	0.32	
 03 31 Structural Concrete <small>(03 30)</small>		
03 31 13 Heavyweight Structural Concrete <small>(03 31)</small>		
Note: Includes delivery, fuel charge and placement of material. See CSI section 02 41 00 00-0000 for demolition, 03 05 13 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.		
03 31 13 00-0001 Concrete Slab Assemblies <small>(03 31 13)</small>		
03 31 13 00-0002 3,000 PSI Slab On Grade Concrete Slabs Assemblies <small>(03 31 13 00-0001)</small>		
Note: Includes forms, welded wire reinforcement (where necessary), #3 to #6 reinforcing rods at 12" on center each way with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 13 00-0001 for color additive alternative, 03 37 16 00-0001 for concrete pumping equipment.		
03 31 13 00-0003 SF 4" 3,000 PSI Slab On Grade Concrete Slabs Assembly.....	6.69	
For 2,000 PSI Concrete, Deduct	-0.19	
For 2,500 PSI Concrete, Deduct	-0.10	
For 3,500 PSI Concrete, Add	0.07	
For 4,000 PSI Concrete, Add	0.23	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
For Up To 500, Add	2.57	
For >500 To 1,000, Add	1.78	
For >1,000 To 2,000, Add	0.98	
For >2,000 To 5,000, Add	0.49	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000 To 35,000, Deduct	-0.35	
For >35,000 To 50,000, Deduct	-0.51	
For >50,000 To 70,000, Deduct	-0.68	
For >70,000, Deduct	-0.85	
03 31 13 00-0004 SF 5" 3,000 PSI Slab On Grade Concrete Slabs Assembly.....	7.32	
For 2,000 PSI Concrete, Deduct	-0.22	
For 2,500 PSI Concrete, Deduct	-0.11	
For 3,500 PSI Concrete, Add	0.08	
For 4,000 PSI Concrete, Add	0.26	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
For Up To 500, Add	2.76	
For >500 To 1,000, Add	1.91	
For >1,000 To 2,000, Add	1.06	
For >2,000 To 5,000, Add	0.53	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000 To 35,000, Deduct	-0.39	
For >35,000 To 50,000, Deduct	-0.57	
For >50,000 To 70,000, Deduct	-0.75	
For >70,000, Deduct	-0.94	
03 31 13 00-0005 SF 6" 3,000 PSI Slab On Grade Concrete Slabs Assembly.....	8.23	
For 2,000 PSI Concrete, Deduct	-0.26	
For 2,500 PSI Concrete, Deduct	-0.13	
For 3,500 PSI Concrete, Add	0.09	
For 4,000 PSI Concrete, Add	0.30	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
For Up To 500, Add	3.03	
For >500 To 1,000, Add	2.10	
For >1,000 To 2,000, Add	1.17	
For >2,000 To 5,000, Add	0.58	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000 To 35,000, Deduct	-0.44	
For >35,000 To 50,000, Deduct	-0.65	
For >50,000 To 70,000, Deduct	-0.86	
For >70,000, Deduct	-1.06	
03 31 13 00-0006 SF 7" 3,000 PSI Slab On Grade Concrete Slabs Assembly.....	9.09	
For 2,000 PSI Concrete, Deduct	-0.30	
For 2,500 PSI Concrete, Deduct	-0.15	
For 3,500 PSI Concrete, Add	0.10	
For 4,000 PSI Concrete, Add	0.35	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
For Up To 500, Add	3.25	
For >500 To 1,000, Add	2.26	
For >1,000 To 2,000, Add	1.27	
For >2,000 To 5,000, Add	0.63	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000 To 35,000, Deduct	-0.50	
For >35,000 To 50,000, Deduct	-0.73	
For >50,000 To 70,000, Deduct	-0.96	
For >70,000, Deduct	-1.18	

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31	13 00-0007	SF	8" 3,000 PSI Slab On Grade Concrete Slabs Assembly	9.82	
			For 2,000 PSI Concrete, Deduct	-0.33	
			For 2,500 PSI Concrete, Deduct	-0.16	
			For 3,500 PSI Concrete, Add	0.12	
			For 4,000 PSI Concrete, Add	0.38	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	3.46	
			For >500 To 1,000, Add	2.41	
			For >1,000 To 2,000, Add	1.36	
			For >2,000 To 5,000, Add	0.68	
			For >10,000 To 20,000, Deduct	-0.30	
			For >20,000 To 35,000, Deduct	-0.55	
			For >35,000 To 50,000, Deduct	-0.80	
			For >50,000 To 70,000, Deduct	-1.04	
			For >70,000, Deduct	-1.29	
03 31	13 00-0008	SF	10" 3,000 PSI Slab On Grade Concrete Slabs Assembly	11.73	
			For 2,000 PSI Concrete, Deduct	-0.42	
			For 2,500 PSI Concrete, Deduct	-0.21	
			For 3,500 PSI Concrete, Add	0.15	
			For 4,000 PSI Concrete, Add	0.49	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	3.96	
			For >500 To 1,000, Add	2.77	
			For >1,000 To 2,000, Add	1.58	
			For >2,000 To 5,000, Add	0.79	
			For >10,000 To 20,000, Deduct	-0.39	
			For >20,000 To 35,000, Deduct	-0.68	
			For >35,000 To 50,000, Deduct	-0.97	
			For >50,000 To 70,000, Deduct	-1.26	
			For >70,000, Deduct	-1.56	
03 31	13 00-0009	SF	12" 3,000 PSI Slab On Grade Concrete Slabs Assembly	13.19	
			For 2,000 PSI Concrete, Deduct	-0.48	
			For 2,500 PSI Concrete, Deduct	-0.24	
			For 3,500 PSI Concrete, Add	0.17	
			For 4,000 PSI Concrete, Add	0.56	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	4.37	
			For >500 To 1,000, Add	3.06	
			For >1,000 To 2,000, Add	1.75	
			For >2,000 To 5,000, Add	0.88	
			For >10,000 To 20,000, Deduct	-0.44	
			For >20,000 To 35,000, Deduct	-0.77	
			For >35,000 To 50,000, Deduct	-1.10	
			For >50,000 To 70,000, Deduct	-1.43	
			For >70,000, Deduct	-1.76	
03 31	13 00-0010		Concrete Delivery And Placement (03 31 13)		
			Note: Includes cleaning out equipment and standard concrete placement tests. See CSI section 01 45 23 00-0000 for additional tests, 03 05 13 00-0001 for admixtures.		
03 31	13 00-0011		Place Concrete By Method Indicated (03 31 13 00-0010)		
			Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 37 16 00-0001 for concrete pumping equipment.		
03 31	13 00-0012		Place Concrete Pile Caps (03 31 13 00-0011)		
03 31	13 00-0013	CY	Crane And Bucket, Place 3,000 PSI Concrete Pile Caps	248.04	
			For 2,000 PSI Concrete, Deduct	-8.02	
			For 2,500 PSI Concrete, Deduct	-4.01	
			For 3,500 PSI Concrete, Add	7.42	
			For 3,750 PSI Concrete, Add	10.09	
			For 4,000 PSI Concrete, Add	12.77	
			For 4,500 PSI Concrete, Add	14.84	
			For 5,000 PSI Concrete, Add	16.92	
			For 6,000 PSI Concrete, Add	40.08	
			For 7,500 PSI Concrete, Add	99.53	
			For White Cement Concrete, Add	17.81	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
			For High Early Strength, Type 3 ASTM C150, Add	14.84	
			For Lightweight Aggregate, ASTM C330, Add	44.53	
			For Up To 20, Add	39.84	
			For >20 To 50, Add	14.94	
			For >100 To 200, Deduct	-4.96	
			For >200 To 400, Deduct	-9.92	
			For >400, Deduct	-14.88	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0014 CY Direct Chute, Place 3,000 PSI Concrete Pile Caps	193.38	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	17.98	
For >20 To 50, Add	6.74	
For >100 To 200, Deduct	-3.87	
For >200 To 400, Deduct	-7.74	
For >400, Deduct	-11.60	
03 31 13 00-0015 CY Concrete Pump, Place 3,000 PSI Concrete Pile Caps	203.60	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-8.68	
For 2,500 PSI Concrete, Deduct	-4.34	
For 3,500 PSI Concrete, Add	8.04	
For 3,750 PSI Concrete, Add	10.94	
For 4,000 PSI Concrete, Add	13.83	
For 4,500 PSI Concrete, Add	16.08	
For 5,000 PSI Concrete, Add	18.33	
For 6,000 PSI Concrete, Add	43.42	
For 7,500 PSI Concrete, Add	107.82	
For White Cement Concrete, Add	19.30	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91	
For High Early Strength, Type 3 ASTM C150, Add	16.08	
For Lightweight Aggregate, ASTM C330, Add	48.24	
For Up To 20, Add	17.12	
For >20 To 50, Add	6.42	
For >100 To 200, Deduct	-4.07	
For >200 To 400, Deduct	-8.14	
For >400, Deduct	-12.22	
03 31 13 00-0016 Place Concrete Continuous Footings (03 31 13 00-0011)		
03 31 13 00-0017 CY Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings.....	236.97	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	35.41	
For >20 To 50, Add	13.28	
For >100 To 200, Deduct	-4.74	
For >200 To 400, Deduct	-9.48	
For >400, Deduct	-14.22	
03 31 13 00-0018 CY Direct Chute, Place 3,000 PSI Concrete Continuous Footings.....	188.39	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	15.98	
For >20 To 50, Add	5.99	
For >100 To 200, Deduct	-3.77	
For >200 To 400, Deduct	-7.54	
For >400, Deduct	-11.30	

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0019	CY	Concrete Pump, Place 3,000 PSI Concrete Continuous Footings.....	198.85
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-8.68
		For 2,500 PSI Concrete, Deduct	-4.34
		For 3,500 PSI Concrete, Add	8.04
		For 3,750 PSI Concrete, Add	10.94
		For 4,000 PSI Concrete, Add	13.83
		For 4,500 PSI Concrete, Add	16.08
		For 5,000 PSI Concrete, Add	18.33
		For 6,000 PSI Concrete, Add	43.42
		For 7,500 PSI Concrete, Add	107.82
		For White Cement Concrete, Add	19.30
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91
		For High Early Strength, Type 3 ASTM C150, Add	16.08
		For Lightweight Aggregate, ASTM C330, Add	48.24
		For Up To 20, Add	15.22
		For >20 To 50, Add	5.71
		For >100 To 200, Deduct	-3.98
		For >200 To 400, Deduct	-7.95
		For >400, Deduct	-11.93
03 31 13 00-0020		Place Concrete Spread Footings (03 31 13 00-0011)	
03 31 13 00-0021	CY	Crane And Bucket, Place 3,000 PSI Concrete Spread Footings	297.83
		For 2,000 PSI Concrete, Deduct	-8.02
		For 2,500 PSI Concrete, Deduct	-4.01
		For 3,500 PSI Concrete, Add	7.42
		For 3,750 PSI Concrete, Add	10.09
		For 4,000 PSI Concrete, Add	12.77
		For 4,500 PSI Concrete, Add	14.84
		For 5,000 PSI Concrete, Add	16.92
		For 6,000 PSI Concrete, Add	40.08
		For 7,500 PSI Concrete, Add	99.53
		For White Cement Concrete, Add	17.81
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30
		For High Early Strength, Type 3 ASTM C150, Add	14.84
		For Lightweight Aggregate, ASTM C330, Add	44.53
		For Up To 20, Add	59.76
		For >20 To 50, Add	22.41
		For >100 To 200, Deduct	-5.96
		For >200 To 400, Deduct	-11.91
		For >400, Deduct	-17.87
03 31 13 00-0022	CY	Direct Chute, Place 3,000 PSI Concrete Spread Footings.....	215.85
		For 2,000 PSI Concrete, Deduct	-8.02
		For 2,500 PSI Concrete, Deduct	-4.01
		For 3,500 PSI Concrete, Add	7.42
		For 3,750 PSI Concrete, Add	10.09
		For 4,000 PSI Concrete, Add	12.77
		For 4,500 PSI Concrete, Add	14.84
		For 5,000 PSI Concrete, Add	16.92
		For 6,000 PSI Concrete, Add	40.08
		For 7,500 PSI Concrete, Add	99.53
		For White Cement Concrete, Add	17.81
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30
		For High Early Strength, Type 3 ASTM C150, Add	14.84
		For Lightweight Aggregate, ASTM C330, Add	44.53
		For Up To 20, Add	26.96
		For >20 To 50, Add	10.11
		For >100 To 200, Deduct	-4.32
		For >200 To 400, Deduct	-8.63
		For >400, Deduct	-12.95
03 31 13 00-0023	CY	Concrete Pump, Place 3,000 PSI Concrete Spread Footings.....	225.01
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-8.68
		For 2,500 PSI Concrete, Deduct	-4.34
		For 3,500 PSI Concrete, Add	8.04
		For 3,750 PSI Concrete, Add	10.94
		For 4,000 PSI Concrete, Add	13.83
		For 4,500 PSI Concrete, Add	16.08
		For 5,000 PSI Concrete, Add	18.33
		For 6,000 PSI Concrete, Add	43.42
		For 7,500 PSI Concrete, Add	107.82
		For White Cement Concrete, Add	19.30
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91
		For High Early Strength, Type 3 ASTM C150, Add	16.08
		For Lightweight Aggregate, ASTM C330, Add	48.24
		For Up To 20, Add	25.68
		For >20 To 50, Add	9.63
		For >100 To 200, Deduct	-4.50
		For >200 To 400, Deduct	-9.00
		For >400, Deduct	-13.50
03 31 13 00-0024		Place Concrete Mat Foundation (03 31 13 00-0011)	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0025 CY Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation.....	175.00	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	10.62	
For >20 To 50, Add	3.98	
For >100 To 200, Deduct	-3.50	
For >200 To 400, Deduct	-7.00	
For >400, Deduct	-10.50	
03 31 13 00-0026 CY Direct Chute, Place 3,000 PSI Concrete Mat Foundation.....	160.42	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	4.79	
For >20 To 50, Add	1.80	
For >100 To 200, Deduct	-3.21	
For >200 To 400, Deduct	-6.42	
For >400, Deduct	-9.63	
03 31 13 00-0027 CY Concrete Pump, Place 3,000 PSI Concrete Mat Foundation.....	170.80	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-8.68	
For 2,500 PSI Concrete, Deduct	-4.34	
For 3,500 PSI Concrete, Add	8.04	
For 3,750 PSI Concrete, Add	10.94	
For 4,000 PSI Concrete, Add	13.83	
For 4,500 PSI Concrete, Add	16.08	
For 5,000 PSI Concrete, Add	18.33	
For 6,000 PSI Concrete, Add	43.42	
For 7,500 PSI Concrete, Add	107.82	
For White Cement Concrete, Add	19.30	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91	
For High Early Strength, Type 3 ASTM C150, Add	16.08	
For Lightweight Aggregate, ASTM C330, Add	48.24	
For Up To 20, Add	4.00	
For >20 To 50, Add	1.50	
For >100 To 200, Deduct	-3.42	
For >200 To 400, Deduct	-6.83	
For >400, Deduct	-10.25	
03 31 13 00-0028 Place Concrete Grade Beams (03 31 13 00-0011)		
03 31 13 00-0029 CY Crane And Bucket, Place 3,000 PSI Concrete Grade Beams.....	219.26	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	28.33	
For >20 To 50, Add	10.62	
For >100 To 200, Deduct	-4.39	
For >200 To 400, Deduct	-8.77	
For >400, Deduct	-13.16	

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0030	CY Direct Chute, Place 3,000 PSI Concrete Grade Beams.....	180.39
	<i>For 2,000 PSI Concrete, Deduct</i>	-8.02
	<i>For 2,500 PSI Concrete, Deduct</i>	-4.01
	<i>For 3,500 PSI Concrete, Add</i>	7.42
	<i>For 3,750 PSI Concrete, Add</i>	10.09
	<i>For 4,000 PSI Concrete, Add</i>	12.77
	<i>For 4,500 PSI Concrete, Add</i>	14.84
	<i>For 5,000 PSI Concrete, Add</i>	16.92
	<i>For 6,000 PSI Concrete, Add</i>	40.08
	<i>For 7,500 PSI Concrete, Add</i>	99.53
	<i>For White Cement Concrete, Add</i>	17.81
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	19.30
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	14.84
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	44.53
	<i>For Up To 20, Add</i>	12.78
	<i>For >20 To 50, Add</i>	4.79
	<i>For >100 To 200, Deduct</i>	-3.61
	<i>For >200 To 400, Deduct</i>	-7.22
	<i>For >400, Deduct</i>	-10.82
03 31 13 00-0031	CY Concrete Pump, Place 3,000 PSI Concrete Grade Beams.....	191.24
	Note: Excludes pumping equipment.	
	<i>For 2,000 PSI Concrete, Deduct</i>	-8.68
	<i>For 2,500 PSI Concrete, Deduct</i>	-4.34
	<i>For 3,500 PSI Concrete, Add</i>	8.04
	<i>For 3,750 PSI Concrete, Add</i>	10.94
	<i>For 4,000 PSI Concrete, Add</i>	13.83
	<i>For 4,500 PSI Concrete, Add</i>	16.08
	<i>For 5,000 PSI Concrete, Add</i>	18.33
	<i>For 6,000 PSI Concrete, Add</i>	43.42
	<i>For 7,500 PSI Concrete, Add</i>	107.82
	<i>For White Cement Concrete, Add</i>	19.30
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	20.91
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	16.08
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	48.24
	<i>For Up To 20, Add</i>	12.17
	<i>For >20 To 50, Add</i>	4.56
	<i>For >100 To 200, Deduct</i>	-3.82
	<i>For >200 To 400, Deduct</i>	-7.65
	<i>For >400, Deduct</i>	-11.47
03 31 13 00-0032	Place Concrete Slab On Grade <small>(03 31 13 00-0011)</small>	220.93
03 31 13 00-0033	CY Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....	220.93
	<i>For 2,000 PSI Concrete, Deduct</i>	-8.02
	<i>For 2,500 PSI Concrete, Deduct</i>	-4.01
	<i>For 3,500 PSI Concrete, Add</i>	7.42
	<i>For 3,750 PSI Concrete, Add</i>	10.09
	<i>For 4,000 PSI Concrete, Add</i>	12.77
	<i>For 4,500 PSI Concrete, Add</i>	14.84
	<i>For 5,000 PSI Concrete, Add</i>	16.92
	<i>For 6,000 PSI Concrete, Add</i>	40.08
	<i>For 7,500 PSI Concrete, Add</i>	99.53
	<i>For White Cement Concrete, Add</i>	17.81
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	19.30
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	14.84
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	44.53
	<i>For Up To 20, Add</i>	29.00
	<i>For >20 To 50, Add</i>	10.87
	<i>For >100 To 200, Deduct</i>	-4.42
	<i>For >200 To 400, Deduct</i>	-8.84
	<i>For >400, Deduct</i>	-13.26
03 31 13 00-0034	CY >6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....	203.44
	<i>For 2,000 PSI Concrete, Deduct</i>	-8.02
	<i>For 2,500 PSI Concrete, Deduct</i>	-4.01
	<i>For 3,500 PSI Concrete, Add</i>	7.42
	<i>For 3,750 PSI Concrete, Add</i>	10.09
	<i>For 4,000 PSI Concrete, Add</i>	12.77
	<i>For 4,500 PSI Concrete, Add</i>	14.84
	<i>For 5,000 PSI Concrete, Add</i>	16.92
	<i>For 6,000 PSI Concrete, Add</i>	40.08
	<i>For 7,500 PSI Concrete, Add</i>	99.53
	<i>For White Cement Concrete, Add</i>	17.81
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	19.30
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	14.84
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	44.53
	<i>For Up To 20, Add</i>	22.00
	<i>For >20 To 50, Add</i>	8.25
	<i>For >100 To 200, Deduct</i>	-4.07
	<i>For >200 To 400, Deduct</i>	-8.14
	<i>For >400, Deduct</i>	-12.21



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0035 CY Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade.....	181.14	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	13.08	
For >20 To 50, Add	4.91	
For >100 To 200, Deduct	-3.62	
For >200 To 400, Deduct	-7.25	
For >400, Deduct	-10.87	
03 31 13 00-0036 CY >6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	173.25	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	9.92	
For >20 To 50, Add	3.72	
For >100 To 200, Deduct	-3.47	
For >200 To 400, Deduct	-6.93	
For >400, Deduct	-10.40	
03 31 13 00-0037 CY Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	188.07	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-8.68	
For 2,500 PSI Concrete, Deduct	-4.34	
For 3,500 PSI Concrete, Add	8.04	
For 3,750 PSI Concrete, Add	10.94	
For 4,000 PSI Concrete, Add	13.83	
For 4,500 PSI Concrete, Add	16.08	
For 5,000 PSI Concrete, Add	18.33	
For 6,000 PSI Concrete, Add	43.42	
For 7,500 PSI Concrete, Add	107.82	
For White Cement Concrete, Add	19.30	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91	
For High Early Strength, Type 3 ASTM C150, Add	16.08	
For Lightweight Aggregate, ASTM C330, Add	48.24	
For Up To 20, Add	10.90	
For >20 To 50, Add	4.09	
For >100 To 200, Deduct	-3.76	
For >200 To 400, Deduct	-7.52	
For >400, Deduct	-11.28	
03 31 13 00-0038 CY >6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade	181.49	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-8.68	
For 2,500 PSI Concrete, Deduct	-4.34	
For 3,500 PSI Concrete, Add	8.04	
For 3,750 PSI Concrete, Add	10.94	
For 4,000 PSI Concrete, Add	13.83	
For 4,500 PSI Concrete, Add	16.08	
For 5,000 PSI Concrete, Add	18.33	
For 6,000 PSI Concrete, Add	43.42	
For 7,500 PSI Concrete, Add	107.82	
For White Cement Concrete, Add	19.30	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91	
For High Early Strength, Type 3 ASTM C150, Add	16.08	
For Lightweight Aggregate, ASTM C330, Add	48.24	
For Up To 20, Add	8.27	
For >20 To 50, Add	3.10	
For >100 To 200, Deduct	-3.63	
For >200 To 400, Deduct	-7.26	
For >400, Deduct	-10.89	

03 31 13 00-0039 Place Concrete Duct Bank (03 31 13 00-0011)

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0040	CY Direct Chute, Place 3,000 PSI Concrete Duct Bank	175.50
	For 2,000 PSI Concrete, Deduct	-8.02
	For 2,500 PSI Concrete, Deduct	-4.01
	For 3,500 PSI Concrete, Add	7.42
	For 3,750 PSI Concrete, Add	10.09
	For 4,000 PSI Concrete, Add	12.77
	For 4,500 PSI Concrete, Add	14.84
	For 5,000 PSI Concrete, Add	16.92
	For 6,000 PSI Concrete, Add	40.08
	For 7,500 PSI Concrete, Add	99.53
	For White Cement Concrete, Add	17.81
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30
	For High Early Strength, Type 3 ASTM C150, Add	14.84
	For Lightweight Aggregate, ASTM C330, Add	44.53
	For Up To 20, Add	10.82
	For >20 To 50, Add	4.06
	For >100 To 200, Deduct	-3.51
	For >200 To 400, Deduct	-7.02
	For >400, Deduct	-10.53
03 31 13 00-0041	Place Concrete Stairs <small>(03 31 13 00-0011)</small>	
03 31 13 00-0042	CY Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs	474.58
	For 2,000 PSI Concrete, Deduct	-8.02
	For 2,500 PSI Concrete, Deduct	-4.01
	For 3,500 PSI Concrete, Add	7.42
	For 3,750 PSI Concrete, Add	10.09
	For 4,000 PSI Concrete, Add	12.77
	For 4,500 PSI Concrete, Add	14.84
	For 5,000 PSI Concrete, Add	16.92
	For 6,000 PSI Concrete, Add	40.08
	For 7,500 PSI Concrete, Add	99.53
	For White Cement Concrete, Add	17.81
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30
	For High Early Strength, Type 3 ASTM C150, Add	14.84
	For Lightweight Aggregate, ASTM C330, Add	44.53
	For Up To 20, Add	130.46
	For >20 To 50, Add	48.92
	For >100 To 200, Deduct	-9.49
	For >200 To 400, Deduct	-18.98
	For >400, Deduct	-28.47
03 31 13 00-0043	CY Direct Chute, Place 3,000 PSI On Grade Concrete Stairs	295.62
	For 2,000 PSI Concrete, Deduct	-8.02
	For 2,500 PSI Concrete, Deduct	-4.01
	For 3,500 PSI Concrete, Add	7.42
	For 3,750 PSI Concrete, Add	10.09
	For 4,000 PSI Concrete, Add	12.77
	For 4,500 PSI Concrete, Add	14.84
	For 5,000 PSI Concrete, Add	16.92
	For 6,000 PSI Concrete, Add	40.08
	For 7,500 PSI Concrete, Add	99.53
	For White Cement Concrete, Add	17.81
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30
	For High Early Strength, Type 3 ASTM C150, Add	14.84
	For Lightweight Aggregate, ASTM C330, Add	44.53
	For Up To 20, Add	58.87
	For >20 To 50, Add	22.08
	For >100 To 200, Deduct	-5.91
	For >200 To 400, Deduct	-11.82
	For >400, Deduct	-17.74
03 31 13 00-0044	CY Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs	283.47
	Note: Excludes pumping equipment.	
	For 2,000 PSI Concrete, Deduct	-8.68
	For 2,500 PSI Concrete, Deduct	-4.34
	For 3,500 PSI Concrete, Add	8.04
	For 3,750 PSI Concrete, Add	10.94
	For 4,000 PSI Concrete, Add	13.83
	For 4,500 PSI Concrete, Add	16.08
	For 5,000 PSI Concrete, Add	18.33
	For 6,000 PSI Concrete, Add	43.42
	For 7,500 PSI Concrete, Add	107.82
	For White Cement Concrete, Add	19.30
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91
	For High Early Strength, Type 3 ASTM C150, Add	16.08
	For Lightweight Aggregate, ASTM C330, Add	48.24
	For Up To 20, Add	49.06
	For >20 To 50, Add	18.40
	For >100 To 200, Deduct	-5.67
	For >200 To 400, Deduct	-11.34
	For >400, Deduct	-17.01
03 31 13 00-0045	Place Concrete Superstructure By Method Indicated <small>(03 31 13 00-0010)</small>	
	See CSI section 03 37 16 00-0001 for concrete pump truck.	
03 31 13 00-0046	Place Elevated Concrete Beams <small>(03 31 13 00-0045)</small>	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0047 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Beams.....	325.50	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	70.82	
For >20 To 50, Add	26.56	
For >100 To 200, Deduct	-6.51	
For >200 To 400, Deduct	-13.02	
For >400, Deduct	-19.53	
03 31 13 00-0048 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Beams.....	236.89	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-8.68	
For 2,500 PSI Concrete, Deduct	-4.34	
For 3,500 PSI Concrete, Add	8.04	
For 3,750 PSI Concrete, Add	10.94	
For 4,000 PSI Concrete, Add	13.83	
For 4,500 PSI Concrete, Add	16.08	
For 5,000 PSI Concrete, Add	18.33	
For 6,000 PSI Concrete, Add	43.42	
For 7,500 PSI Concrete, Add	107.82	
For White Cement Concrete, Add	19.30	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91	
For High Early Strength, Type 3 ASTM C150, Add	16.08	
For Lightweight Aggregate, ASTM C330, Add	48.24	
For Up To 20, Add	30.43	
For >20 To 50, Add	11.41	
For >100 To 200, Deduct	-4.74	
For >200 To 400, Deduct	-9.48	
For >400, Deduct	-14.21	
03 31 13 00-0049 Place Elevated Concrete Slab (03 31 13 00-0045)		
03 31 13 00-0050 CY Up To 6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	231.80	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	33.34	
For >20 To 50, Add	12.50	
For >100 To 200, Deduct	-4.64	
For >200 To 400, Deduct	-9.27	
For >400, Deduct	-13.91	
03 31 13 00-0051 CY >6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	211.69	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	25.30	
For >20 To 50, Add	9.49	
For >100 To 200, Deduct	-4.23	
For >200 To 400, Deduct	-8.47	
For >400, Deduct	-12.70	

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0052	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab.....	196.63
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-8.68
		For 2,500 PSI Concrete, Deduct	-4.34
		For 3,500 PSI Concrete, Add	8.04
		For 3,750 PSI Concrete, Add	10.94
		For 4,000 PSI Concrete, Add	13.83
		For 4,500 PSI Concrete, Add	16.08
		For 5,000 PSI Concrete, Add	18.33
		For 6,000 PSI Concrete, Add	43.42
		For 7,500 PSI Concrete, Add	107.82
		For White Cement Concrete, Add	19.30
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91
		For High Early Strength, Type 3 ASTM C150, Add	16.08
		For Lightweight Aggregate, ASTM C330, Add	48.24
		For Up To 20, Add	14.33
		For >20 To 50, Add	5.37
		For >100 To 200, Deduct	-3.93
		For >200 To 400, Deduct	-7.87
		For >400, Deduct	-11.80
03 31 13 00-0053	CY	>6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab	187.99
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-8.68
		For 2,500 PSI Concrete, Deduct	-4.34
		For 3,500 PSI Concrete, Add	8.04
		For 3,750 PSI Concrete, Add	10.94
		For 4,000 PSI Concrete, Add	13.83
		For 4,500 PSI Concrete, Add	16.08
		For 5,000 PSI Concrete, Add	18.33
		For 6,000 PSI Concrete, Add	43.42
		For 7,500 PSI Concrete, Add	107.82
		For White Cement Concrete, Add	19.30
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91
		For High Early Strength, Type 3 ASTM C150, Add	16.08
		For Lightweight Aggregate, ASTM C330, Add	48.24
		For Up To 20, Add	10.87
		For >20 To 50, Add	4.08
		For >100 To 200, Deduct	-3.76
		For >200 To 400, Deduct	-7.52
		For >400, Deduct	-11.28

03 31 13 00-0054 Place Concrete Columns (03 31 13 00-0045)

03 31 13 00-0055	CY	12" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	339.66
		For 2,000 PSI Concrete, Deduct	-8.02
		For 2,500 PSI Concrete, Deduct	-4.01
		For 3,500 PSI Concrete, Add	7.42
		For 3,750 PSI Concrete, Add	10.09
		For 4,000 PSI Concrete, Add	12.77
		For 4,500 PSI Concrete, Add	14.84
		For 5,000 PSI Concrete, Add	16.92
		For 6,000 PSI Concrete, Add	40.08
		For 7,500 PSI Concrete, Add	99.53
		For White Cement Concrete, Add	17.81
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30
		For High Early Strength, Type 3 ASTM C150, Add	14.84
		For Lightweight Aggregate, ASTM C330, Add	44.53
		For Up To 20, Add	76.49
		For >20 To 50, Add	28.68
		For >100 To 200, Deduct	-6.79
		For >200 To 400, Deduct	-13.59
		For >400, Deduct	-20.38
03 31 13 00-0056	CY	18" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	287.43
		For 2,000 PSI Concrete, Deduct	-8.02
		For 2,500 PSI Concrete, Deduct	-4.01
		For 3,500 PSI Concrete, Add	7.42
		For 3,750 PSI Concrete, Add	10.09
		For 4,000 PSI Concrete, Add	12.77
		For 4,500 PSI Concrete, Add	14.84
		For 5,000 PSI Concrete, Add	16.92
		For 6,000 PSI Concrete, Add	40.08
		For 7,500 PSI Concrete, Add	99.53
		For White Cement Concrete, Add	17.81
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30
		For High Early Strength, Type 3 ASTM C150, Add	14.84
		For Lightweight Aggregate, ASTM C330, Add	44.53
		For Up To 20, Add	55.60
		For >20 To 50, Add	20.85
		For >100 To 200, Deduct	-5.75
		For >200 To 400, Deduct	-11.50
		For >400, Deduct	-17.25



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0057 CY 24" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	250.07	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	40.65	
For >20 To 50, Add	15.24	
For >100 To 200, Deduct	-5.00	
For >200 To 400, Deduct	-10.00	
For >400, Deduct	-15.00	
03 31 13 00-0058 CY 36" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	233.42	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	33.99	
For >20 To 50, Add	12.75	
For >100 To 200, Deduct	-4.67	
For >200 To 400, Deduct	-9.34	
For >400, Deduct	-14.01	
03 31 13 00-0059 CY 12" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	242.98	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-8.68	
For 2,500 PSI Concrete, Deduct	-4.34	
For 3,500 PSI Concrete, Add	8.04	
For 3,750 PSI Concrete, Add	10.94	
For 4,000 PSI Concrete, Add	13.83	
For 4,500 PSI Concrete, Add	16.08	
For 5,000 PSI Concrete, Add	18.33	
For 6,000 PSI Concrete, Add	43.42	
For 7,500 PSI Concrete, Add	107.82	
For White Cement Concrete, Add	19.30	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91	
For High Early Strength, Type 3 ASTM C150, Add	16.08	
For Lightweight Aggregate, ASTM C330, Add	48.24	
For Up To 20, Add	32.87	
For >20 To 50, Add	12.33	
For >100 To 200, Deduct	-4.86	
For >200 To 400, Deduct	-9.72	
For >400, Deduct	-14.58	
03 31 13 00-0060 CY 18" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	220.53	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-8.68	
For 2,500 PSI Concrete, Deduct	-4.34	
For 3,500 PSI Concrete, Add	8.04	
For 3,750 PSI Concrete, Add	10.94	
For 4,000 PSI Concrete, Add	13.83	
For 4,500 PSI Concrete, Add	16.08	
For 5,000 PSI Concrete, Add	18.33	
For 6,000 PSI Concrete, Add	43.42	
For 7,500 PSI Concrete, Add	107.82	
For White Cement Concrete, Add	19.30	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91	
For High Early Strength, Type 3 ASTM C150, Add	16.08	
For Lightweight Aggregate, ASTM C330, Add	48.24	
For Up To 20, Add	23.89	
For >20 To 50, Add	8.96	
For >100 To 200, Deduct	-4.41	
For >200 To 400, Deduct	-8.82	
For >400, Deduct	-13.23	

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0061	CY	24" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	204.48	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-8.68	
		For 2,500 PSI Concrete, Deduct	-4.34	
		For 3,500 PSI Concrete, Add	8.04	
		For 3,750 PSI Concrete, Add	10.94	
		For 4,000 PSI Concrete, Add	13.83	
		For 4,500 PSI Concrete, Add	16.08	
		For 5,000 PSI Concrete, Add	18.33	
		For 6,000 PSI Concrete, Add	43.42	
		For 7,500 PSI Concrete, Add	107.82	
		For White Cement Concrete, Add	19.30	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91	
		For High Early Strength, Type 3 ASTM C150, Add	16.08	
		For Lightweight Aggregate, ASTM C330, Add	48.24	
		For Up To 20, Add	17.47	
		For >20 To 50, Add	6.55	
		For >100 To 200, Deduct	-4.09	
		For >200 To 400, Deduct	-8.18	
		For >400, Deduct	-12.27	
03 31 13 00-0062	CY	36" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	197.33	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-8.68	
		For 2,500 PSI Concrete, Deduct	-4.34	
		For 3,500 PSI Concrete, Add	8.04	
		For 3,750 PSI Concrete, Add	10.94	
		For 4,000 PSI Concrete, Add	13.83	
		For 4,500 PSI Concrete, Add	16.08	
		For 5,000 PSI Concrete, Add	18.33	
		For 6,000 PSI Concrete, Add	43.42	
		For 7,500 PSI Concrete, Add	107.82	
		For White Cement Concrete, Add	19.30	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91	
		For High Early Strength, Type 3 ASTM C150, Add	16.08	
		For Lightweight Aggregate, ASTM C330, Add	48.24	
		For Up To 20, Add	14.61	
		For >20 To 50, Add	5.48	
		For >100 To 200, Deduct	-3.95	
		For >200 To 400, Deduct	-7.89	
		For >400, Deduct	-11.84	
03 31 13 00-0063		Place Concrete Walls <small>(03 31 13 00-0045)</small>		
03 31 13 00-0064	CY	8" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	327.71	
		For 2,000 PSI Concrete, Deduct	-8.02	
		For 2,500 PSI Concrete, Deduct	-4.01	
		For 3,500 PSI Concrete, Add	7.42	
		For 3,750 PSI Concrete, Add	10.09	
		For 4,000 PSI Concrete, Add	12.77	
		For 4,500 PSI Concrete, Add	14.84	
		For 5,000 PSI Concrete, Add	16.92	
		For 6,000 PSI Concrete, Add	40.08	
		For 7,500 PSI Concrete, Add	99.53	
		For White Cement Concrete, Add	17.81	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
		For High Early Strength, Type 3 ASTM C150, Add	14.84	
		For Lightweight Aggregate, ASTM C330, Add	44.53	
		For Up To 20, Add	71.71	
		For >20 To 50, Add	26.89	
		For >100 To 200, Deduct	-6.55	
		For >200 To 400, Deduct	-13.11	
		For >400, Deduct	-19.66	
03 31 13 00-0065	CY	12" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	312.84	
		For 2,000 PSI Concrete, Deduct	-8.02	
		For 2,500 PSI Concrete, Deduct	-4.01	
		For 3,500 PSI Concrete, Add	7.42	
		For 3,750 PSI Concrete, Add	10.09	
		For 4,000 PSI Concrete, Add	12.77	
		For 4,500 PSI Concrete, Add	14.84	
		For 5,000 PSI Concrete, Add	16.92	
		For 6,000 PSI Concrete, Add	40.08	
		For 7,500 PSI Concrete, Add	99.53	
		For White Cement Concrete, Add	17.81	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
		For High Early Strength, Type 3 ASTM C150, Add	14.84	
		For Lightweight Aggregate, ASTM C330, Add	44.53	
		For Up To 20, Add	65.76	
		For >20 To 50, Add	24.66	
		For >100 To 200, Deduct	-6.26	
		For >200 To 400, Deduct	-12.51	
		For >400, Deduct	-18.77	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0066 CY 15" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls.....	273.93	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	50.20	
For >20 To 50, Add	18.82	
For >100 To 200, Deduct	-5.48	
For >200 To 400, Deduct	-10.96	
For >400, Deduct	-16.44	
03 31 13 00-0067 CY 8" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls.....	229.32	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	32.35	
For >20 To 50, Add	12.13	
For >100 To 200, Deduct	-4.59	
For >200 To 400, Deduct	-9.17	
For >400, Deduct	-13.76	
03 31 13 00-0068 CY 12" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls.....	213.15	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	25.88	
For >20 To 50, Add	9.71	
For >100 To 200, Deduct	-4.26	
For >200 To 400, Deduct	-8.53	
For >400, Deduct	-12.79	
03 31 13 00-0069 CY 15" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls.....	205.06	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	22.65	
For >20 To 50, Add	8.49	
For >100 To 200, Deduct	-4.10	
For >200 To 400, Deduct	-8.20	
For >400, Deduct	-12.30	

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0070	CY	8" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	237.84
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-8.68
		For 2,500 PSI Concrete, Deduct	-4.34
		For 3,500 PSI Concrete, Add	8.04
		For 3,750 PSI Concrete, Add	10.94
		For 4,000 PSI Concrete, Add	13.83
		For 4,500 PSI Concrete, Add	16.08
		For 5,000 PSI Concrete, Add	18.33
		For 6,000 PSI Concrete, Add	43.42
		For 7,500 PSI Concrete, Add	107.82
		For White Cement Concrete, Add	19.30
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91
		For High Early Strength, Type 3 ASTM C150, Add	16.08
		For Lightweight Aggregate, ASTM C330, Add	48.24
		For Up To 20, Add	30.81
		For >20 To 50, Add	11.55
		For >100 To 200, Deduct	-4.76
		For >200 To 400, Deduct	-9.51
		For >400, Deduct	-14.27
03 31 13 00-0071	CY	12" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	222.44
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-8.68
		For 2,500 PSI Concrete, Deduct	-4.34
		For 3,500 PSI Concrete, Add	8.04
		For 3,750 PSI Concrete, Add	10.94
		For 4,000 PSI Concrete, Add	13.83
		For 4,500 PSI Concrete, Add	16.08
		For 5,000 PSI Concrete, Add	18.33
		For 6,000 PSI Concrete, Add	43.42
		For 7,500 PSI Concrete, Add	107.82
		For White Cement Concrete, Add	19.30
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91
		For High Early Strength, Type 3 ASTM C150, Add	16.08
		For Lightweight Aggregate, ASTM C330, Add	48.24
		For Up To 20, Add	24.65
		For >20 To 50, Add	9.24
		For >100 To 200, Deduct	-4.45
		For >200 To 400, Deduct	-8.90
		For >400, Deduct	-13.35
03 31 13 00-0072	CY	15" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	214.73
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-8.68
		For 2,500 PSI Concrete, Deduct	-4.34
		For 3,500 PSI Concrete, Add	8.04
		For 3,750 PSI Concrete, Add	10.94
		For 4,000 PSI Concrete, Add	13.83
		For 4,500 PSI Concrete, Add	16.08
		For 5,000 PSI Concrete, Add	18.33
		For 6,000 PSI Concrete, Add	43.42
		For 7,500 PSI Concrete, Add	107.82
		For White Cement Concrete, Add	19.30
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91
		For High Early Strength, Type 3 ASTM C150, Add	16.08
		For Lightweight Aggregate, ASTM C330, Add	48.24
		For Up To 20, Add	21.57
		For >20 To 50, Add	8.09
		For >100 To 200, Deduct	-4.29
		For >200 To 400, Deduct	-8.59
		For >400, Deduct	-12.88
03 31 13 00-0073		Place Elevated Concrete Stairs (03 31 13 00-0045)	
03 31 13 00-0074	CY	Crane And Bucket, Place 3,000 PSI Elevated Concrete Stairs	510.86
		For 2,000 PSI Concrete, Deduct	-8.02
		For 2,500 PSI Concrete, Deduct	-4.01
		For 3,500 PSI Concrete, Add	7.42
		For 3,750 PSI Concrete, Add	10.09
		For 4,000 PSI Concrete, Add	12.77
		For 4,500 PSI Concrete, Add	14.84
		For 5,000 PSI Concrete, Add	16.92
		For 6,000 PSI Concrete, Add	40.08
		For 7,500 PSI Concrete, Add	99.53
		For White Cement Concrete, Add	17.81
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30
		For High Early Strength, Type 3 ASTM C150, Add	14.84
		For Lightweight Aggregate, ASTM C330, Add	44.53
		For Up To 20, Add	144.97
		For >20 To 50, Add	54.36
		For >100 To 200, Deduct	-10.22
		For >200 To 400, Deduct	-20.43
		For >400, Deduct	-30.65



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0075 CY Direct Chute, Place 3,000 PSI Elevated Concrete Stairs.....	311.96	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	65.41	
For >20 To 50, Add	24.53	
For >100 To 200, Deduct	-6.24	
For >200 To 400, Deduct	-12.48	
For >400, Deduct	-18.72	
03 31 13 00-0076 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Stairs.....	297.08	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-8.68	
For 2,500 PSI Concrete, Deduct	-4.34	
For 3,500 PSI Concrete, Add	8.04	
For 3,750 PSI Concrete, Add	10.94	
For 4,000 PSI Concrete, Add	13.83	
For 4,500 PSI Concrete, Add	16.08	
For 5,000 PSI Concrete, Add	18.33	
For 6,000 PSI Concrete, Add	43.42	
For 7,500 PSI Concrete, Add	107.82	
For White Cement Concrete, Add	19.30	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91	
For High Early Strength, Type 3 ASTM C150, Add	16.08	
For Lightweight Aggregate, ASTM C330, Add	48.24	
For Up To 20, Add	54.51	
For >20 To 50, Add	20.44	
For >100 To 200, Deduct	-5.94	
For >200 To 400, Deduct	-11.88	
For >400, Deduct	-17.82	
03 31 13 00-0077 Place Concrete Coping (03 31 13 00-0045)		
03 31 13 00-0078 CY Crane And Bucket, Place 3,000 PSI Concrete Coping	523.39	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	149.98	
For >20 To 50, Add	56.24	
For >100 To 200, Deduct	-10.47	
For >200 To 400, Deduct	-20.94	
For >400, Deduct	-31.40	
03 31 13 00-0079 CY Direct Chute, Place 3,000 PSI Concrete Coping	310.86	
For 2,000 PSI Concrete, Deduct	-8.02	
For 2,500 PSI Concrete, Deduct	-4.01	
For 3,500 PSI Concrete, Add	7.42	
For 3,750 PSI Concrete, Add	10.09	
For 4,000 PSI Concrete, Add	12.77	
For 4,500 PSI Concrete, Add	14.84	
For 5,000 PSI Concrete, Add	16.92	
For 6,000 PSI Concrete, Add	40.08	
For 7,500 PSI Concrete, Add	99.53	
For White Cement Concrete, Add	17.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	19.30	
For High Early Strength, Type 3 ASTM C150, Add	14.84	
For Lightweight Aggregate, ASTM C330, Add	44.53	
For Up To 20, Add	64.97	
For >20 To 50, Add	24.36	
For >100 To 200, Deduct	-6.22	
For >200 To 400, Deduct	-12.43	
For >400, Deduct	-18.65	

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0080	CY		Concrete Pump, Place 3,000 PSI Concrete Coping.....	406.82	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-8.68	
			For 2,500 PSI Concrete, Deduct	-4.34	
			For 3,500 PSI Concrete, Add	8.04	
			For 3,750 PSI Concrete, Add	10.94	
			For 4,000 PSI Concrete, Add	13.83	
			For 4,500 PSI Concrete, Add	16.08	
			For 5,000 PSI Concrete, Add	18.33	
			For 6,000 PSI Concrete, Add	43.42	
			For 7,500 PSI Concrete, Add	107.82	
			For White Cement Concrete, Add	19.30	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	20.91	
			For High Early Strength, Type 3 ASTM C150, Add	16.08	
			For Lightweight Aggregate, ASTM C330, Add	48.24	
			For Up To 20, Add	98.40	
			For >20 To 50, Add	36.90	
			For >100 To 200, Deduct	-8.14	
			For >200 To 400, Deduct	-16.27	
			For >400, Deduct	-24.41	
03 31 13 00-0081			Concrete Carts (03 31 13 00-0010)		
			Note: Used to place concrete were necessary.		
03 31 13 00-0082	CY		50' Haul, Non Motorized, Concrete Buggy	19.63	
03 31 13 00-0083	CY		150' Haul, Non Motorized, Concrete Buggy	26.29	
03 31 13 00-0084	CY		250' Haul, Non Motorized, Concrete Buggy	35.07	
03 31 13 00-0085	CY		50' Haul, Motorized, Concrete Buggy	8.92	
03 31 13 00-0086	CY		150' Haul, Motorized, Concrete Buggy.....	11.97	
03 31 13 00-0087	CY		250' Haul, Motorized, Concrete Buggy.....	15.95	
03 31 13 00-0088			Delivery Fee For Small Purchases (03 31 13)		
03 31 13 00-0089	CY		Delivery Fee For Concrete Purchases Per CY For Each CY Less Than 9 CY	18.32	
			Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.		
03 31 13 00-0090			Delivery Fee For Concrete, Per Truck Load (03 31 13)		
03 31 13 00-0091	EA		Concrete Delivery Fee, Per Truck.....	40.00	
			Note: To be added to all concrete leaving concrete yard		
03 31 13 00-0092			Equipment Pads (03 31 13)		
03 31 13 00-0093			Small Concrete Equipment Housekeeping Pad Assemblies (03 31 13 00-0092)		
			Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad and up to 5 pads per project.		
03 31 13 00-0094	SF		4" Equipment Pad With Welded Wire Reinforcement	14.90	
03 31 13 00-0095	SF		4" Equipment Pad With Rebar	18.48	
03 31 13 00-0096	SF		6" Equipment Pad With Rebar	23.32	
03 31 13 00-0097	SF		8" Equipment Pad With Rebar	29.34	
03 35			Concrete Finishing (03 30)		
03 35 13			High-Tolerance Concrete Floor Finishing (03 35)		
03 35 13 00-0001			Floor Finishes (03 35 13)		
			Note: Task is for final finish type and includes all required prior finishes.		
03 35 13 00-0002	SF		Screed, Concrete Floor Finish	0.80	
			For Up To 100, Add	1.60	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.20	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000, Deduct	-0.08	
03 35 13 00-0003	SF		Darby, Concrete Floor Finish	0.96	
			For Up To 100, Add	1.92	
			For >100 To 250, Add	0.48	
			For >250 To 500, Add	0.24	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000, Deduct	-0.10	
03 35 13 00-0004	SF		Broom, Concrete Floor Finish	1.06	
			For Up To 100, Add	2.12	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.27	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000, Deduct	-0.11	
03 35 13 00-0005	SF		Final Float, Concrete Floor Finish	1.23	
			For Up To 100, Add	2.46	
			For >100 To 250, Add	0.62	
			For >250 To 500, Add	0.31	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000, Deduct	-0.12	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Concrete Finishing	03 35	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 13 00-0006 SF Steel Trowel, Concrete Floor Finish.....	1.40	
For Up To 100, Add	2.80	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.35	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000, Deduct	-0.14	
03 35 16 Heavy-Duty Concrete Floor Finishing (03 35)		
03 35 16 00-0001 Shake On Floor Hardeners (03 35 16)		
03 35 16 00-0002 SF 0.3 LB/SF, Metallic, Shake On Floor Hardener.....	1.02	
03 35 16 00-0003 SF 0.65 LB/SF, Metallic, Shake On Floor Hardener.....	1.59	
03 35 16 00-0004 SF 0.3 LB/SF, Non Metallic, Shake On Floor Hardener	0.96	
03 35 16 00-0005 SF 0.65 LB/SF, Non Metallic, Shake On Floor Hardener	1.18	
03 35 19 Colored Concrete Finishing (03 35)		
03 35 19 00-0001 Concrete Surface Treatments (03 35 19)		
03 35 19 00-0002 SF Acrylic Latex Bonding Agent.....	0.41	
03 35 19 00-0003 SF Epoxy Resin Bonding Agent	2.13	
03 35 19 00-0004 SF Clear Acrylic Sealer, Hardener And Dustproofers	0.26	
03 35 19 00-0005 SF Colored Acrylic Sealer, Hardener And Dustproofers	0.27	
03 35 23 Exposed Aggregate Concrete Finishing (03 35)		
03 35 23 00-0001 Exposed Aggregate, Concrete Finish (03 35 23)		
03 35 23 00-0002 SF Exposed Aggregate, Concrete Floor Finish	2.31	
03 35 26 Grooved Concrete Surface Finishing (03 35)		
03 35 26 00-0001 Ramp, Grooved Concrete Surface Finishing (03 35 26)		
03 35 26 00-0002 SF Ramp, Grooved Concrete Surface Finishing	3.48	
03 35 29 Tooled Concrete Finishing (03 35)		
03 35 29 00-0001 Solid Board Concrete Finish (03 35 29)		
03 35 29 00-0002 SF Solid Board Concrete, Non Uniform Finish, 1 Use, Add To Formwork	13.79	
03 35 29 00-0003 Marblecrete Finishes (03 35 29)		
03 35 29 00-0004 SF 2" Thick Marblecrete And Finish	35.50	
03 35 29 00-0005 SF 4" Thick Marblecrete And Finish	47.56	
03 35 33 Stamped Concrete Finishing (03 35)		
03 35 33 00-0001 Stamped Concrete Finishes (03 35 33)		
03 35 33 00-0002 SF Up To 2,500 SF Stamped Concrete Finish.....	3.17	
03 35 33 00-0003 SF >2,500 To 10,000 SF Stamped Concrete Finish.....	2.87	
03 35 33 00-0004 SF >10,000 SF Stamped Concrete Finish.....	2.74	
03 35 63 Slip-Resistant Floor Finishing (03 35)		
03 35 63 00-0001 Slip-Resistant Floor Finishing (03 35 63)		
03 35 63 00-0002 SF Aluminum Oxide Abrasive Floor Finish, 0.25 LB/SF	1.10	
For Up To 100, Add	1.54	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.19	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000, Deduct	-0.08	
03 35 63 00-0003 SF Silicone Carbide Abrasive Floor Finish 0.25 LB/SF	1.02	
For Up To 100, Add	1.54	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.19	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000, Deduct	-0.08	
03 35 66 Acid Etch Floor Finishing (03 35)		
03 35 66 00-0001 Acid Etch Floor (03 35 66)		
03 35 66 00-0002 SF Concrete Floor Finishes, Etch With Acid And Rinse	0.84	
For Up To 100, Add	0.74	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.09	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000, Deduct	-0.04	

03	Concrete
03 30	Cast-In-Place Concrete
03 35	Concrete Finishing



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 35 83 Concrete Wall Finishing (03 35)

03 35 83 00-0001 Wall Finishes (03 35 83)

03 35 83 00-0002	SF Burlap Rub With Grout, New Concrete Wall Finishes.....	1.43
	<i>For Up To 100, Add</i>	2.68
	<i>For >100 To 250, Add</i>	0.67
	<i>For >250 To 500, Add</i>	0.34
	<i>For >5,000 To 10,000, Deduct</i>	-0.07
	<i>For >10,000, Deduct</i>	-0.13
03 35 83 00-0003	SF 1/16" Float Finish, New Concrete Wall Finishes.....	2.14
	<i>For Up To 100, Add</i>	4.02
	<i>For >100 To 250, Add</i>	1.01
	<i>For >250 To 500, Add</i>	0.50
	<i>For >5,000 To 10,000, Deduct</i>	-0.10
	<i>For >10,000, Deduct</i>	-0.20
03 35 83 00-0004	SF Etch With Acid And Rinse, New Concrete Wall Finishes.....	0.92
	<i>For Up To 100, Add</i>	0.90
	<i>For >100 To 250, Add</i>	0.23
	<i>For >250 To 500, Add</i>	0.11
	<i>For >5,000 To 10,000, Deduct</i>	-0.02
	<i>For >10,000, Deduct</i>	-0.05
03 35 83 00-0005	SF Bush Hammer Green Concrete, New Concrete Wall Finishes.....	4.29
	<i>For Up To 100, Add</i>	8.50
	<i>For >100 To 250, Add</i>	2.13
	<i>For >250 To 500, Add</i>	1.06
	<i>For >5,000 To 10,000, Deduct</i>	-0.21
	<i>For >10,000, Deduct</i>	-0.43
03 35 83 00-0006	SF Bush Hammer Cured Concrete, New Concrete Wall Finishes.....	6.67
	<i>For Up To 100, Add</i>	13.16
	<i>For >100 To 250, Add</i>	3.29
	<i>For >250 To 500, Add</i>	1.65
	<i>For >5,000 To 10,000, Deduct</i>	-0.33
	<i>For >10,000, Deduct</i>	-0.66
03 35 83 00-0007	SF Break Ties And Patch, New Concrete Wall Finishes.....	0.83
	<i>For Up To 100, Add</i>	1.44
	<i>For >100 To 250, Add</i>	0.36
	<i>For >250 To 500, Add</i>	0.18
	<i>For >5,000 To 10,000, Deduct</i>	-0.04
	<i>For >10,000, Deduct</i>	-0.07
03 35 83 00-0008	SF Carborundum Dry Rub, New Concrete Wall Finishes.....	2.79
	<i>For Up To 100, Add</i>	5.36
	<i>For >100 To 250, Add</i>	1.34
	<i>For >250 To 500, Add</i>	0.67
	<i>For >5,000 To 10,000, Deduct</i>	-0.13
	<i>For >10,000, Deduct</i>	-0.27
03 35 83 00-0009	SF Carborundum Wet Rub, New Concrete Wall Finishes.....	4.24
	<i>For Up To 100, Add</i>	8.26
	<i>For >100 To 250, Add</i>	2.07
	<i>For >250 To 500, Add</i>	1.03
	<i>For >5,000 To 10,000, Deduct</i>	-0.21
	<i>For >10,000, Deduct</i>	-0.41
03 35 83 00-0010	SF Up To 1/4" Penetration Sand Blasting, New Concrete Wall Finishes.....	2.72
	<i>For Up To 100, Add</i>	4.68
	<i>For >100 To 250, Add</i>	1.17
	<i>For >250 To 500, Add</i>	0.59
	<i>For >5,000 To 10,000, Deduct</i>	-0.12
	<i>For >10,000, Deduct</i>	-0.23
03 35 83 00-0011	SF >1/4" To 1/2" Penetration Sand Blasting, New Concrete Wall Finishes.....	7.64
	<i>For Up To 100, Add</i>	13.74
	<i>For >100 To 250, Add</i>	3.44
	<i>For >250 To 500, Add</i>	1.72
	<i>For >5,000 To 10,000, Deduct</i>	-0.34
	<i>For >10,000, Deduct</i>	-0.69

03 37 Specialty Placed Concrete (03 30)

Note: Includes gun finish. Not to be used for pumping concrete tasks. See CSI section 03 35 00 00-0000 for finishing.

03 37 13 Shotcrete (03 37)

03 37 13 00-0001 Shotcrete, Fiber Reinforced, Structural Repair (03 37 13)

03 37 13 00-0002	SF 1" Thick Shotcrete, Fiber Reinforced.....	4.45
	<i>For Up To 25, Add</i>	0.69
	<i>For >25 To 50, Add</i>	0.38
	<i>For >50 To 150, Add</i>	0.12
03 37 13 00-0003	SF 2" Thick Shotcrete, Fiber Reinforced.....	8.59
	<i>For Up To 25, Add</i>	1.29
	<i>For >25 To 50, Add</i>	0.72
	<i>For >50 To 150, Add</i>	0.22
03 37 13 00-0004	SF 3" Thick Shotcrete, Fiber Reinforced.....	12.44
	<i>For Up To 25, Add</i>	1.83
	<i>For >25 To 50, Add</i>	1.01
	<i>For >50 To 150, Add</i>	0.29



Concrete	03	03
Cast-In-Place Concrete	03 30	
Specialty Placed Concrete	03 37	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 37	13 00-0005	SF	4" Thick Shotcrete, Fiber Reinforced	16.06	
			For Up To 25, Add	2.31	
			For >25 To 50, Add	1.27	
			For >50 To 150, Add	0.35	
03 37	13 00-0006	SF	6" Thick Shotcrete, Fiber Reinforced	22.77	
			For Up To 25, Add	3.13	
			For >25 To 50, Add	1.71	
			For >50 To 150, Add	0.43	
03 37 13 00-0007 Gunite (Dry Mix Shotcrete), Sprayed (03 37 13)					
See CSI section 03 22 11 00-0001 for wire mesh reinforcing.					
03 37	13 00-0008	SF	1" Thick Gunite (Dry Mix Shotcrete), Sprayed	4.15	
			For Radius Or Irregular Surface, Add	0.88	
			For Up To 25, Add	0.75	
			For >25 To 50, Add	0.43	
			For >50 To 150, Add	0.17	
03 37	13 00-0009	SF	2" Thick Gunite (Dry Mix Shotcrete), Sprayed	7.85	
			For Radius Or Irregular Surface, Add	1.59	
			For Up To 25, Add	1.38	
			For >25 To 50, Add	0.79	
			For >50 To 150, Add	0.30	
03 37	13 00-0010	SF	3" Thick Gunite (Dry Mix Shotcrete), Sprayed	11.16	
			For Radius Or Irregular Surface, Add	2.14	
			For Up To 25, Add	1.92	
			For >25 To 50, Add	1.09	
			For >50 To 150, Add	0.40	
03 37	13 00-0011	SF	4" Thick Gunite (Dry Mix Shotcrete), Sprayed	14.18	
			For Radius Or Irregular Surface, Add	2.57	
			For Up To 25, Add	2.38	
			For >25 To 50, Add	1.35	
			For >50 To 150, Add	0.48	
03 37	13 00-0012	SF	5" Thick Gunite (Dry Mix Shotcrete), Sprayed	16.92	
			For Radius Or Irregular Surface, Add	2.89	
			For Up To 25, Add	2.78	
			For >25 To 50, Add	1.57	
			For >50 To 150, Add	0.54	
03 37	13 00-0013	SF	6" Thick Gunite (Dry Mix Shotcrete), Sprayed	19.44	
			For Radius Or Irregular Surface, Add	3.12	
			For Up To 25, Add	3.12	
			For >25 To 50, Add	1.75	
			For >50 To 150, Add	0.59	
03 37	13 00-0014	SF	8" Thick Gunite (Dry Mix Shotcrete), Sprayed	24.87	
			For Radius Or Irregular Surface, Add	3.75	
			For Up To 25, Add	3.89	
			For >25 To 50, Add	2.18	
			For >50 To 150, Add	0.70	
03 37	13 00-0015	SF	10" Thick Gunite (Dry Mix Shotcrete), Sprayed	29.92	
			For Radius Or Irregular Surface, Add	4.22	
			For Up To 25, Add	4.57	
			For >25 To 50, Add	2.55	
			For >50 To 150, Add	0.79	
03 37	13 00-0016	SF	12" Thick Gunite (Dry Mix Shotcrete), Sprayed	34.64	
			For Radius Or Irregular Surface, Add	4.55	
			For Up To 25, Add	5.17	
			For >25 To 50, Add	2.87	
			For >50 To 150, Add	0.85	

03 37 16 Pumped Concrete (03 37)

03 37 16 00-0001 Concrete Pumping With Boom Truck (03 37 16)

Note: Includes truck rental, operator, and local travel delivery. For delivery/set-up of equipment add one hour, for clean-up of equipment add one hour. Use four hours as the minimum cost including set-up and clean-up. Excludes concrete, use "Concrete Pump" concrete tasks from appropriate section to place into pump hopper and place concrete. Sizes are measured at a 30 degree vertical reach. See CSI section 03 31 13 00-0010 for concrete placement.

03 37	16 00-0002	HR	55' To 60' Boom Truck For Concrete Placement (95 CY Per Hour Rating)	168.87	
03 37	16 00-0003	HR	70' To 80' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	181.43	
			For Each CY Of Concrete Pumped, Add	1.25	
03 37	16 00-0004	HR	90' To 100' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	226.79	
			For Each CY Of Concrete Pumped, Add	1.50	
03 37	16 00-0005	HR	105' To 115' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	255.03	
			For Each CY Of Concrete Pumped, Add	1.50	
03 37	16 00-0006	HR	120' To 130' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	284.18	
			For Each CY Of Concrete Pumped, Add	1.75	
03 37	16 00-0007	HR	135' To 140' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	345.90	
03 37	16 00-0008	HR	148' To 155' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	382.73	
03 37	16 00-0009	HR	170' To 175' Boom Truck For Concrete Placement (182 CY Per Hour Rating)	471.92	
			For Each CY Of Concrete Pumped, Add	2.25	
03 37	16 00-0010	HR	35 CY/HR, 66 HP Trailer Mounted Concrete Pump	118.27	
			Note: Includes hoses		

03 39 Concrete Curing (03 30)

03 Concrete**03 30 Cast-In-Place Concrete****03 39 Concrete Curing**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**03 39 13 Water Concrete Curing (03 39)**

03 39 13 00-0001	Water Concrete Curing (03 39 13)		
03 39 13 00-0002	SF Water Based Curing, Sealing, Hardening And Dustproofing Compound.....	0.24	
	Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.		

03 39 23 Membrane Concrete Curing (03 39)**03 39 23 23 Sheet Membrane Concrete Curing (03 39 23)**

03 39 23 23-0001	Concrete Curing Materials And Compounds (03 39 23 23)		
03 39 23 23-0002	CSF 7.5 Oz Burlap, Concrete Curing Blanket.....	31.73	
03 39 23 23-0003	CSF 9 Oz Burlap, Concrete Curing Blanket.....	30.85	
03 39 23 23-0004	CSF 12 Oz Burlap, Concrete Curing Blanket.....	34.32	
03 39 23 23-0005	CSF 2 Ply Reinforced, Concrete Curing Waterproof Paper.....	31.56	

03 40 Precast Concrete (03)

Note: Precast concrete material prices are based on a precast operation producing large quantities of precast products. Material prices include the concrete panel, delivery to construction site and overhead/mobilization charges for the precast plant.

03 41 Precast Structural Concrete (03 40)**03 41 16 Precast Concrete Slabs (03 41)**

03 41 16 00-0001	Flat Floor Slab/Floor Plank (03 41 16)		
03 41 16 00-0002	Erection Costs For Using A 90 Ton Crawler Crane (03 41 16 00-0001)		
	Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 16 00-0003	EA Erect Precast Floor Deck, 0-2 Ton/Piece 150' Maximum Radius With 90 Ton Crane.....	284.55	227.66
03 41 16 00-0004	EA Erect Precast Floor Deck, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	316.32	253.01
03 41 16 00-0005	EA Erect Precast Floor Deck, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane.....	335.88	268.69
03 41 16 00-0006	EA Erect Precast Floor Deck, 4-5 Ton/Piece 88' Maximum Radius With 90 Ton Crane.....	356.08	284.88
03 41 16 00-0007	EA Erect Precast Floor Deck, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane.....	381.07	304.83
03 41 16 00-0008	EA Erect Precast Floor Deck, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	407.26	325.81
03 41 16 00-0009	EA Erect Precast Floor Deck, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane.....	437.33	349.84
03 41 16 00-0010	EA Erect Precast Floor Deck, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	475.63	380.49
03 41 16 00-0011	EA Erect Precast Floor Deck, 9-10 Ton/Piece 60' Maximum Radius With 90 Ton Crane.....	517.15	413.78

03 41 16 00-0012 Material Cost (03 41 16 00-0001)

Note: Includes cost for 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations cost.

03 41 16 00-0013	SF 4" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	21.44	
	For 3,500 PSI Concrete, Add	0.43	
	For 4,000 PSI Concrete, Add	0.64	
	For 4,500 PSI Concrete, Add	0.86	
	For 5,000 PSI Concrete, Add	1.29	
03 41 16 00-0014	SF 5" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	25.72	
	For 3,500 PSI Concrete, Add	0.51	
	For 4,000 PSI Concrete, Add	0.77	
	For 4,500 PSI Concrete, Add	1.03	
	For 5,000 PSI Concrete, Add	1.54	
03 41 16 00-0015	SF 6" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	31.44	
	For 3,500 PSI Concrete, Add	0.63	
	For 4,000 PSI Concrete, Add	0.94	
	For 4,500 PSI Concrete, Add	1.26	
	For 5,000 PSI Concrete, Add	1.89	
03 41 16 00-0016	SF 8" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	41.73	
	For 3,500 PSI Concrete, Add	0.83	
	For 4,000 PSI Concrete, Add	1.25	
	For 4,500 PSI Concrete, Add	1.67	
	For 5,000 PSI Concrete, Add	2.50	

03 41 16 00-0017 Floor Units, Combination Beam And Slab (03 41 16)**03 41 16 00-0018 Erection Costs For Using 90 Ton Crawler Crane (03 41 16 00-0017)**

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 16 00-0019	EA Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 88' Maximum Radius With 90 Ton Crane.....	351.30	281.02
03 41 16 00-0020	EA Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 60' Maximum Radius With 90 Ton Crane.....	382.89	306.35
03 41 16 00-0021	EA Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 43' Maximum Radius With 90 Ton Crane.....	423.20	338.51
03 41 16 00-0022	EA Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 36' Maximum Radius With 90 Ton Crane.....	469.92	375.91
03 41 16 00-0023	EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 31' Maximum Radius With 90 Ton Crane.....	528.23	422.54

03 41 16 00-0024 Erection Costs Using A 125 Ton Crawler Crane (03 41 16 00-0017)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 16 00-0025	EA Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 110' Maximum Radius, 125 Ton Crane.....	439.12	351.32
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Concrete	03	03
Precast Concrete	03 40	
Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 16 00-0026 EA Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 75' Maximum Radius, 125 Ton Crane	478.63	382.87
03 41 16 00-0027 EA Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 55' Maximum Radius, 125 Ton Crane.....	529.01	423.24
03 41 16 00-0028 EA Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 50' Maximum Radius, 125 Ton Crane.....	587.40	469.94
03 41 16 00-0029 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 40' Maximum Radius, 125 Ton Crane.....	660.29	528.29
03 41 16 00-0030 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 33' Maximum Radius, 125 Ton Crane.....	717.94	574.31
03 41 16 00-0031 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 30' Maximum Radius, 125 Ton Crane.....	793.51	634.81
03 41 16 00-0032 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 28' Maximum Radius, 125 Ton Crane.....	878.25	702.65
03 41 16 00-0033 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 26' Maximum Radius, 125 Ton Crane.....	994.07	795.26
03 41 16 00-0034 Material Cost <small>(03 41 16 00-0017)</small>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operation.		
03 41 16 00-0035 4" Slab <small>(03 41 16 00-0034)</small>		
03 41 16 00-0036 CY Precast Combination Deck, 4" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	2,257.84	
For 3,500 PSI Concrete, Add	45.16	
For 4,000 PSI Concrete, Add	67.74	
For 4,500 PSI Concrete, Add	90.31	
For 5,000 PSI Concrete, Add	135.47	
03 41 16 00-0037 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	2,286.42	
For 3,500 PSI Concrete, Add	45.73	
For 4,000 PSI Concrete, Add	68.59	
For 4,500 PSI Concrete, Add	91.46	
For 5,000 PSI Concrete, Add	137.19	
03 41 16 00-0038 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	2,572.23	
For 3,500 PSI Concrete, Add	51.44	
For 4,000 PSI Concrete, Add	77.17	
For 4,500 PSI Concrete, Add	102.89	
For 5,000 PSI Concrete, Add	154.33	
03 41 16 00-0039 5" Slab <small>(03 41 16 00-0034)</small>		
03 41 16 00-0040 CY Precast Combination Deck, 5" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	2,315.00	
For 3,500 PSI Concrete, Add	46.30	
For 4,000 PSI Concrete, Add	69.45	
For 4,500 PSI Concrete, Add	92.60	
For 5,000 PSI Concrete, Add	138.90	
03 41 16 00-0041 CY Precast Combination Deck, 5" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	2,400.74	
For 3,500 PSI Concrete, Add	48.01	
For 4,000 PSI Concrete, Add	72.02	
For 4,500 PSI Concrete, Add	96.03	
For 5,000 PSI Concrete, Add	144.04	
03 41 16 00-0042 CY Precast Combination Deck, 5" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	3,058.09	
For 3,500 PSI Concrete, Add	61.16	
For 4,000 PSI Concrete, Add	91.74	
For 4,500 PSI Concrete, Add	122.32	
For 5,000 PSI Concrete, Add	183.49	
03 41 16 00-0043 6" Slab <small>(03 41 16 00-0034)</small>		
03 41 16 00-0044 CY Precast Combination Deck, 6" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	2,400.74	
For 3,500 PSI Concrete, Add	48.01	
For 4,000 PSI Concrete, Add	72.02	
For 4,500 PSI Concrete, Add	96.03	
For 5,000 PSI Concrete, Add	144.04	
03 41 16 00-0045 CY Precast Combination Deck, 6" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	2,858.03	
For 3,500 PSI Concrete, Add	57.16	
For 4,000 PSI Concrete, Add	85.74	
For 4,500 PSI Concrete, Add	114.32	
For 5,000 PSI Concrete, Add	171.48	
03 41 16 00-0046 CY Precast Combination Deck, 6" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	3,486.79	
For 3,500 PSI Concrete, Add	69.74	
For 4,000 PSI Concrete, Add	104.60	
For 4,500 PSI Concrete, Add	139.47	
For 5,000 PSI Concrete, Add	209.21	
03 41 19 Precast Concrete Wall Panels <small>(03 41)</small>		
03 41 19 00-0001 Structural Wall Panels <small>(03 41 19)</small>		
Note: Gray, smooth form or board finish one side.		
03 41 19 00-0002 Erection Cost Using 50 Ton Hydraulic Crane <small>(03 41 19 00-0001)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0003 EA Erect Precast Wall Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	282.20	225.78
03 41 19 00-0004 EA Erect Precast Wall Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	313.70	250.92
03 41 19 00-0005 EA Erect Precast Wall Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	353.13	282.52
03 41 19 00-0006 EA Erect Precast Wall Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	377.91	302.31
03 41 19 00-0007 EA Erect Precast Wall Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	403.89	323.12
03 41 19 00-0008 EA Erect Precast Wall Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	433.71	346.94
03 41 19 00-0009 EA Erect Precast Wall Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	471.69	377.34
03 41 19 00-0010 EA Erect Precast Wall Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	512.87	410.35

03 Concrete**03 40 Precast Concrete****03 41 Precast Structural Concrete**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**03 41 19 00-0011****Erection Cost Using 90 Ton Crawler Crane** (03 41 19 00-0001)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.

03 41 19 00-0012	EA	Erect Precast Wall Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	316.02	252.78
03 41 19 00-0013	EA	Erect Precast Wall Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	351.30	281.02
03 41 19 00-0014	EA	Erect Precast Wall Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	395.45	316.41
03 41 19 00-0015	EA	Erect Precast Wall Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	423.20	338.51
03 41 19 00-0016	EA	Erect Precast Wall Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	452.29	361.84
03 41 19 00-0017	EA	Erect Precast Wall Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	485.68	388.57
03 41 19 00-0018	EA	Erect Precast Wall Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane.....	528.23	422.54
03 41 19 00-0019	EA	Erect Precast Wall Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane.....	574.34	459.43
03 41 19 00-0020	EA	Erect Precast Wall Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane.....	634.80	507.88
03 41 19 00-0021	EA	Erect Precast Wall Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane.....	702.59	562.05
03 41 19 00-0022	EA	Erect Precast Wall Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane.....	795.25	636.23
03 41 19 00-0023	EA	Erect Precast Wall Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane.....	904.60	723.67
03 41 19 00-0024	EA	Erect Precast Wall Panel 35-40 Ton/Piece 23' Maximum Radius With 90 Ton Crane.....	1,048.80	839.06

03 41 19 00-0025**Material Cost** (03 41 19 00-0001)

Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.

03 41 19 00-0026	SF	4" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	28.58	
		For 3,500 PSI Concrete, Add	0.57	
		For 4,000 PSI Concrete, Add	0.86	
		For 4,500 PSI Concrete, Add	1.14	
		For 5,000 PSI Concrete, Add	1.71	
		For White Facing, Add	5.72	
		For Solid White Through Thickness, Add	5.72	
		For Broken Rib Finish, Add	2.86	
		For Fluted Surface, Add	2.86	
		For Exposed Aggregate, Add	5.72	
		For Sandblasting Of Surface, Add	2.86	
		For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0027	SF	5" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	35.15	
		For 3,500 PSI Concrete, Add	0.70	
		For 4,000 PSI Concrete, Add	1.05	
		For 4,500 PSI Concrete, Add	1.41	
		For 5,000 PSI Concrete, Add	2.11	
		For White Facing, Add	7.03	
		For Solid White Through Thickness, Add	7.03	
		For Broken Rib Finish, Add	3.52	
		For Fluted Surface, Add	3.52	
		For Exposed Aggregate, Add	7.03	
		For Sandblasting Of Surface, Add	3.52	
		For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0028	SF	6" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	42.30	
		For 3,500 PSI Concrete, Add	0.85	
		For 4,000 PSI Concrete, Add	1.27	
		For 4,500 PSI Concrete, Add	1.69	
		For 5,000 PSI Concrete, Add	2.54	
		For White Facing, Add	8.46	
		For Solid White Through Thickness, Add	8.46	
		For Broken Rib Finish, Add	4.23	
		For Fluted Surface, Add	4.23	
		For Exposed Aggregate, Add	8.46	
		For Sandblasting Of Surface, Add	4.23	
		For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0029	SF	8" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	55.73	
		For 3,500 PSI Concrete, Add	1.11	
		For 4,000 PSI Concrete, Add	1.67	
		For 4,500 PSI Concrete, Add	2.23	
		For 5,000 PSI Concrete, Add	3.34	
		For White Facing, Add	11.15	
		For Solid White Through Thickness, Add	11.15	
		For Broken Rib Finish, Add	5.57	
		For Fluted Surface, Add	5.57	
		For Exposed Aggregate, Add	11.15	
		For Sandblasting Of Surface, Add	5.57	
		For 2" Polystyrene Insulation, Add	1.15	

03 41 19 00-0030**Partition Panels** (03 41 19)**03 41 19 00-0031****Erection Costs Using 20 Ton Hydraulic Crane** (03 41 19 00-0030)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 19 00-0032	EA	Erect Precast Partition Wall 0-1 Ton/Piece 69' Maximum Radius With 20 Ton Crane.....	229.32	183.43
03 41 19 00-0033	EA	Erect Precast Partition Wall 1-2 Ton/Piece 50' Maximum Radius With 20 Ton Crane.....	254.93	203.97
03 41 19 00-0034	EA	Erect Precast Partition Wall 2-3 Ton/Piece 41' Maximum Radius With 20 Ton Crane.....	286.97	229.56
03 41 19 00-0035	EA	Erect Precast Partition Wall 3-4 Ton/Piece 33' Maximum Radius With 20 Ton Crane.....	328.22	262.58
03 41 19 00-0036	EA	Erect Precast Partition Wall 4-5 Ton/Piece 30' Maximum Radius With 20 Ton Crane.....	352.45	281.98
03 41 19 00-0037	EA	Erect Precast Partition Wall 5-6 Ton/Piece 26' Maximum Radius With 20 Ton Crane.....	383.33	306.65
03 41 19 00-0038	EA	Erect Precast Partition Wall 6-7 Ton/Piece 23' Maximum Radius With 20 Ton Crane.....	416.79	333.47



Concrete	03	CS
Precast Concrete	03 40	
Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0039 EA Erect Precast Partition Wall 7-8 Ton/Piece 20' Maximum Radius With 20 Ton Crane.....	460.66	368.55
03 41 19 00-0040 Erection Costs Using 50 Ton Hydraulic Crane <small>(03 41 19 00-0030)</small>		
Note: Includes handling, hoisting in place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0041 EA Erect Precast Partition Wall 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	282.20	225.78
03 41 19 00-0042 EA Erect Precast Partition Wall 1-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane.....	313.70	250.92
03 41 19 00-0043 EA Erect Precast Partition Wall 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	353.13	282.52
03 41 19 00-0044 EA Erect Precast Partition Wall 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane.....	403.89	323.12
03 41 19 00-0045 EA Erect Precast Partition Wall 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	433.71	346.94
03 41 19 00-0046 EA Erect Precast Partition Wall 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane.....	471.69	377.34
03 41 19 00-0047 EA Erect Precast Partition Wall 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	512.87	410.35
03 41 19 00-0048 EA Erect Precast Partition Wall 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane.....	566.87	453.47
03 41 19 00-0049 EA Erect Precast Partition Wall 8-10 Ton/Piece 31' Maximum Radius With 50 Ton Crane.....	627.40	501.93
03 41 19 00-0050 EA Erect Precast Partition Wall 10-12 Ton/Piece 26' Maximum Radius With 50 Ton Crane.....	710.14	568.07
03 41 19 00-0051 EA Erect Precast Partition Wall 12-14 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	807.78	646.22
03 41 19 00-0052 EA Erect Precast Partition Wall 14-16 Ton/Piece 21' Maximum Radius With 50 Ton Crane.....	936.55	749.22
03 41 19 00-0053 Material Cost <small>(03 41 19 00-0030)</small>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.		
03 41 19 00-0054 SF 4" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	27.15	
For 4,000 PSI Concrete, Add		0.81
For 4,500 PSI Concrete, Add		1.09
For 5,000 PSI Concrete, Add		1.63
For White Facing, Add		5.43
For Solid White Through Thickness, Add		5.43
For Broken Rib Finish, Add		2.72
For Fluted Surface, Add		2.72
For Exposed Aggregate, Add		5.43
For Sandblasting Of Surface, Add		2.72
03 41 19 00-0055 SF 5" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	33.44	
For 4,000 PSI Concrete, Add		1.00
For 4,500 PSI Concrete, Add		1.34
For 5,000 PSI Concrete, Add		2.01
For White Facing, Add		6.69
For Solid White Through Thickness, Add		6.69
For Broken Rib Finish, Add		3.34
For Fluted Surface, Add		3.34
For Exposed Aggregate, Add		6.69
For Sandblasting Of Surface, Add		3.34
03 41 19 00-0056 SF 6" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	40.01	
For 4,000 PSI Concrete, Add		1.20
For 4,500 PSI Concrete, Add		1.60
For 5,000 PSI Concrete, Add		2.40
For White Facing, Add		8.00
For Solid White Through Thickness, Add		8.00
For Broken Rib Finish, Add		4.00
For Fluted Surface, Add		4.00
For Exposed Aggregate, Add		8.00
For Sandblasting Of Surface, Add		4.00
03 41 19 00-0057 SF 8" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	52.87	
For 4,000 PSI Concrete, Add		1.59
For 4,500 PSI Concrete, Add		2.11
For 5,000 PSI Concrete, Add		3.17
For White Facing, Add		10.57
For Solid White Through Thickness, Add		10.57
For Broken Rib Finish, Add		5.29
For Fluted Surface, Add		5.29
For Exposed Aggregate, Add		10.57
For Sandblasting Of Surface, Add		5.29
03 41 19 00-0058 Cladding Panels <small>(03 41 19)</small>		
03 41 19 00-0059 Erection Costs Using 50 Ton Hydraulic Crane <small>(03 41 19 00-0058)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0060 EA Erect Precast Cladding 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	297.80	238.20
03 41 19 00-0061 EA Erect Precast Cladding 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	333.10	266.47
03 41 19 00-0062 EA Erect Precast Cladding 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	377.91	302.31
03 41 19 00-0063 EA Erect Precast Cladding 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	403.89	323.12
03 41 19 00-0064 EA Erect Precast Cladding 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	433.71	346.94
03 41 19 00-0065 EA Erect Precast Cladding 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	471.69	377.34
03 41 19 00-0066 EA Erect Precast Cladding 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	512.87	410.35
03 41 19 00-0067 EA Erect Precast Cladding 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	566.87	453.47
03 41 19 00-0068 Erection Costs Using 90 Ton Crawler Crane <small>(03 41 19 00-0058)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0069 EA Erect Precast Cladding 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	333.49	266.75
03 41 19 00-0070 EA Erect Precast Cladding 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	373.03	298.41

03 Concrete**03 40 Precast Concrete****03 41 Precast Structural Concrete**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0071 EA Erect Precast Cladding 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	423.20	338.51
03 41 19 00-0072 EA Erect Precast Cladding 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	452.29	361.84
03 41 19 00-0073 EA Erect Precast Cladding 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	485.68	388.57
03 41 19 00-0074 EA Erect Precast Cladding 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	528.23	422.54
03 41 19 00-0075 EA Erect Precast Cladding 11-13 Ton/Piece 90' Maximum Radius With 90 Ton Crane.....	574.34	459.43
03 41 19 00-0076 EA Erect Precast Cladding 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane.....	634.80	507.88
03 41 19 00-0077 EA Erect Precast Cladding 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane.....	702.59	562.05
03 41 19 00-0078 EA Erect Precast Cladding 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane.....	795.25	636.23
03 41 19 00-0079 EA Erect Precast Cladding 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane.....	904.60	723.67
03 41 19 00-0080 EA Erect Precast Cladding 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane.....	1,048.80	839.06
03 41 19 00-0081 Material Cost (03 41 19 00-0058) Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.		
03 41 19 00-0082 SF 4" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	27.15	
For 3,500 PSI Concrete, Add	0.54	
For 4,000 PSI Concrete, Add	0.81	
For 4,500 PSI Concrete, Add	1.09	
For 5,000 PSI Concrete, Add	1.63	
For White Facing, Add	5.43	
For Solid White Through Thickness, Add	5.43	
For Broken Rib Finish, Add	2.72	
For Fluted Surface, Add	2.72	
For Exposed Aggregate, Add	5.43	
For Sandblasting Of Surface, Add	2.72	
03 41 19 00-0083 SF 5" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	33.44	
For 3,500 PSI Concrete, Add	0.67	
For 4,000 PSI Concrete, Add	1.00	
For 4,500 PSI Concrete, Add	1.34	
For 5,000 PSI Concrete, Add	2.01	
For White Facing, Add	6.69	
For Solid White Through Thickness, Add	6.69	
For Broken Rib Finish, Add	3.34	
For Fluted Surface, Add	3.34	
For Exposed Aggregate, Add	6.69	
For Sandblasting Of Surface, Add	3.34	
03 41 19 00-0084 SF 6" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	40.01	
For 3,500 PSI Concrete, Add	0.80	
For 4,000 PSI Concrete, Add	1.20	
For 4,500 PSI Concrete, Add	1.60	
For 5,000 PSI Concrete, Add	2.40	
For White Facing, Add	8.00	
For Solid White Through Thickness, Add	8.00	
For Broken Rib Finish, Add	4.00	
For Fluted Surface, Add	4.00	
For Exposed Aggregate, Add	8.00	
For Sandblasting Of Surface, Add	4.00	
03 41 19 00-0085 SF 8" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	52.87	
For 3,500 PSI Concrete, Add	1.06	
For 4,000 PSI Concrete, Add	1.59	
For 4,500 PSI Concrete, Add	2.11	
For 5,000 PSI Concrete, Add	3.17	
For White Facing, Add	10.57	
For Solid White Through Thickness, Add	10.57	
For Broken Rib Finish, Add	5.29	
For Fluted Surface, Add	5.29	
For Exposed Aggregate, Add	10.57	
For Sandblasting Of Surface, Add	5.29	
03 41 19 00-0086 Sandwich Panel (03 41 19)		
03 41 19 00-0087 Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0086) Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0088 EA Erect Precast Sandwich Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	297.80	238.20
03 41 19 00-0089 EA Erect Precast Sandwich Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	333.10	266.47
03 41 19 00-0090 EA Erect Precast Sandwich Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	377.91	302.31
03 41 19 00-0091 EA Erect Precast Sandwich Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	403.89	323.12
03 41 19 00-0092 EA Erect Precast Sandwich Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	433.71	346.94
03 41 19 00-0093 EA Erect Precast Sandwich Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	471.69	377.34
03 41 19 00-0094 EA Erect Precast Sandwich Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	512.87	410.35
03 41 19 00-0095 EA Erect Precast Sandwich Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	566.87	453.47
03 41 19 00-0096 Erection Costs Using 90 Ton Crawler Crane (03 41 19 00-0086) Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0097 EA Erect Precast Sandwich Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	300.28	240.19
03 41 19 00-0098 EA Erect Precast Sandwich Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	335.88	268.69
03 41 19 00-0099 EA Erect Precast Sandwich Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	381.07	304.83
03 41 19 00-0100 EA Erect Precast Sandwich Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	407.26	325.81
03 41 19 00-0101 EA Erect Precast Sandwich Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	437.33	349.84
03 41 19 00-0102 EA Erect Precast Sandwich Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	475.63	380.49



Concrete	03	03
Precast Concrete	03 40	
Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0103 EA Erect Precast Sandwich Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	517.15	413.78
03 41 19 00-0104 EA Erect Precast Sandwich Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	571.60	457.25
03 41 19 00-0105 EA Erect Precast Sandwich Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane	632.63	506.12
03 41 19 00-0106 EA Erect Precast Sandwich Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane	716.07	572.81
03 41 19 00-0107 EA Erect Precast Sandwich Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane	814.52	651.61
03 41 19 00-0108 EA Erect Precast Sandwich Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane	944.37	755.47

03 41 19 00-0109

Material Cost (03 41 19 00-0096)

Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations. Sandwich panel consists of 2.5" cladding panel, 2" fiber board insulation and the structural panel as defined.

03 41 19 00-0110 SF 4" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	37.15	
For 3,500 PSI Concrete, Add	0.74	
For 4,000 PSI Concrete, Add	1.11	
For 4,500 PSI Concrete, Add	1.49	
For 5,000 PSI Concrete, Add	2.23	
For White Facing, Add	7.43	
For Solid White Through Thickness, Add	7.43	
For Broken Rib Finish, Add	3.72	
For Fluted Surface, Add	3.72	
For Exposed Aggregate, Add	7.43	
For Sandblasting Of Surface, Add	3.72	
03 41 19 00-0111 SF 5" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	43.73	
For 3,500 PSI Concrete, Add	0.87	
For 4,000 PSI Concrete, Add	1.31	
For 4,500 PSI Concrete, Add	1.75	
For 5,000 PSI Concrete, Add	2.62	
For White Facing, Add	8.75	
For Solid White Through Thickness, Add	8.75	
For Broken Rib Finish, Add	4.37	
For Fluted Surface, Add	4.37	
For Exposed Aggregate, Add	8.75	
For Sandblasting Of Surface, Add	4.37	
03 41 19 00-0112 SF 6" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	50.87	
For 3,500 PSI Concrete, Add	1.02	
For 4,000 PSI Concrete, Add	1.53	
For 4,500 PSI Concrete, Add	2.03	
For 5,000 PSI Concrete, Add	3.05	
For White Facing, Add	10.17	
For Solid White Through Thickness, Add	10.17	
For Broken Rib Finish, Add	5.09	
For Fluted Surface, Add	5.09	
For Exposed Aggregate, Add	10.17	
For Sandblasting Of Surface, Add	5.09	
03 41 19 00-0113 SF 8" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	64.31	
For 3,500 PSI Concrete, Add	1.29	
For 4,000 PSI Concrete, Add	1.93	
For 4,500 PSI Concrete, Add	2.57	
For 5,000 PSI Concrete, Add	3.86	
For White Facing, Add	12.86	
For Solid White Through Thickness, Add	12.86	
For Broken Rib Finish, Add	6.43	
For Fluted Surface, Add	6.43	
For Exposed Aggregate, Add	12.86	
For Sandblasting Of Surface, Add	6.43	

03 41 23 Precast Concrete Stairs (03 41)

03 41 23 00-0001

Erection Costs Using A 50 Ton Hydraulic Crane (03 41 23)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 23 00-0002 EA Erect Precast Stairs, 0-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane	313.70	250.92
03 41 23 00-0003 EA Erect Precast Stairs, 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	333.10	266.47
03 41 23 00-0004 EA Erect Precast Stairs, 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane	353.13	282.52
03 41 23 00-0005 EA Erect Precast Stairs, 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	377.91	302.31
03 41 23 00-0006 EA Erect Precast Stairs, 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane	403.89	323.12
03 41 23 00-0007 EA Erect Precast Stairs, 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	433.71	346.94
03 41 23 00-0008 EA Erect Precast Stairs, 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane	471.69	377.34
03 41 23 00-0009 EA Erect Precast Stairs, 8-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	512.87	410.35

03 41 23 00-0010

Erection Costs Using A 90 Ton Crawler Crane (03 41 23)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 23 00-0011 EA Erect Precast Stairs, 0-2 Ton/Piece 151' Maximum Radius With 90 Ton Crane	313.70	250.92
03 41 23 00-0012 EA Erect Precast Stairs, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	333.10	266.47
03 41 23 00-0013 EA Erect Precast Stairs, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane	353.13	282.52
03 41 23 00-0014 EA Erect Precast Stairs, 4-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	377.91	302.31
03 41 23 00-0015 EA Erect Precast Stairs, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane	403.89	323.12
03 41 23 00-0016 EA Erect Precast Stairs, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	433.71	346.94
03 41 23 00-0017 EA Erect Precast Stairs, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane	471.69	377.34
03 41 23 00-0018 EA Erect Precast Stairs, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	512.87	410.35



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 41 23 00-0019	Material Cost <small>(03 41 23)</small>		
	Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast operations.		
03 41 23 00-0020	EA 3' Wide With 10-1/2" Depth Treads Precast Concrete Stair Unit, Per Riser.....	572.78	
	For 3,500 PSI Concrete, Add	74.75	
	For 4,000 PSI Concrete, Add	140.45	
	For 4,500 PSI Concrete, Add	206.43	
	For 5,000 PSI Concrete, Add	280.83	
03 41 26	Precast Concrete Structural Sections <small>(03 41)</small>		
03 41 26 00-0001	Precast Beams, Girder And Joists <small>(03 41 26)</small>		
03 41 26 00-0002	Erection Costs Using A 90 Ton Crawler Crane <small>(03 41 26 00-0001)</small>		
	Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 26 00-0003	EA Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 89' Maximum Radius, 90 Ton Crane	395.45	316.41
03 41 26 00-0004	EA Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 60' Maximum Radius, 90 Ton Crane	423.20	338.51
03 41 26 00-0005	EA Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 43' Maximum Radius, 90 Ton Crane.....	452.29	361.84
03 41 26 00-0006	EA Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 36' Maximum Radius, 90 Ton Crane.....	485.68	388.57
03 41 26 00-0007	Erection Costs Using A 125 Ton Crawler Crane <small>(03 41 26 00-0001)</small>		
	Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 26 00-0008	EA Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 110' Maximum Radius, 125 Ton Crane.....	494.32	395.42
03 41 26 00-0009	EA Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 75' Maximum Radius, 125 Ton Crane.....	529.01	423.24
03 41 26 00-0010	EA Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 55' Maximum Radius, 125 Ton Crane.....	565.38	452.30
03 41 26 00-0011	EA Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 50' Maximum Radius, 125 Ton Crane.....	607.11	485.65
03 41 26 00-0012	EA Erect Precast Structural Sections, 20-25 Ton/Piece Beam, Girder, Joist; 40' Maximum Radius, 125 Ton Crane.....	660.29	528.29
03 41 26 00-0013	EA Erect Precast Structural Sections, 25-30 Ton/Piece Beam, Girder, Joist; 33' Maximum Radius, 125 Ton Crane.....	717.94	574.31
03 41 26 00-0014	EA Erect Precast Structural Sections, 30-35 Ton/Piece Beam, Girder, Joist; 30' Maximum Radius, 125 Ton Crane.....	793.51	634.81
03 41 26 00-0015	EA Erect Precast Structural Sections, 35-40 Ton/Piece Beam, Girder, Joist; 28' Maximum Radius, 125 Ton Crane.....	878.25	702.65
03 41 26 00-0016	Material Cost <small>(03 41 26 00-0001)</small>		
	Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.		
03 41 26 00-0017	1,000 LB/LF Live Load <small>(03 41 26 00-0016)</small>		
03 41 26 00-0018	LF Precast Structural Sections, 1,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	114.54	
	For 3,500 PSI Concrete, Add	3.13	
	For 4,000 PSI Concrete, Add	4.70	
	For 4,500 PSI Concrete, Add	6.25	
	For 5,000 PSI Concrete, Add	9.39	
03 41 26 00-0019	LF Precast Structural Sections, 1,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	143.17	
	For 3,500 PSI Concrete, Add	3.91	
	For 4,000 PSI Concrete, Add	5.87	
	For 4,500 PSI Concrete, Add	7.82	
	For 5,000 PSI Concrete, Add	11.74	
03 41 26 00-0020	LF Precast Structural Sections, 1,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	171.81	
	For 3,500 PSI Concrete, Add	4.69	
	For 4,000 PSI Concrete, Add	7.04	
	For 4,500 PSI Concrete, Add	9.38	
	For 5,000 PSI Concrete, Add	14.09	
03 41 26 00-0021	3,000 LB/LF Live Load <small>(03 41 26 00-0016)</small>		
03 41 26 00-0022	LF Precast Structural Sections, 3,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	143.17	
	For 3,500 PSI Concrete, Add	3.91	
	For 4,000 PSI Concrete, Add	5.87	
	For 4,500 PSI Concrete, Add	7.82	
	For 5,000 PSI Concrete, Add	11.74	
03 41 26 00-0023	LF Precast Structural Sections, 3,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	171.81	
	For 3,500 PSI Concrete, Add	4.69	
	For 4,000 PSI Concrete, Add	7.04	
	For 4,500 PSI Concrete, Add	9.38	
	For 5,000 PSI Concrete, Add	14.09	
03 41 26 00-0024	LF Precast Structural Sections, 3,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	229.08	
	For 3,500 PSI Concrete, Add	6.25	
	For 4,000 PSI Concrete, Add	9.39	
	For 4,500 PSI Concrete, Add	12.51	
	For 5,000 PSI Concrete, Add	18.78	
03 41 26 00-0025	5,000 LB/LF Live Load <small>(03 41 26 00-0016)</small>		
03 41 26 00-0026	LF Precast Structural Sections, 5,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	200.44	
	For 3,500 PSI Concrete, Add	5.47	
	For 4,000 PSI Concrete, Add	8.22	
	For 4,500 PSI Concrete, Add	10.94	
	For 5,000 PSI Concrete, Add	16.44	



Concrete	03	03
Precast Concrete	03 40	
Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 26 00-0027 LF Precast Structural Sections, 5,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	229.08	
For 3,500 PSI Concrete, Add	6.25	
For 4,000 PSI Concrete, Add	9.39	
For 4,500 PSI Concrete, Add	12.51	
For 5,000 PSI Concrete, Add	18.78	
03 41 26 00-0028 LF Precast Structural Sections, 5,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	286.35	
For 3,500 PSI Concrete, Add	7.82	
For 4,000 PSI Concrete, Add	11.74	
For 4,500 PSI Concrete, Add	15.63	
For 5,000 PSI Concrete, Add	23.48	
03 41 26 00-0029 Precast Concrete Columns (03 41 26)		
03 41 26 00-0030 Erection Costs Using A 90 Ton Crawler Crane (03 41 26 00-0029)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 26 00-0031 EA Erect Precast Concrete Columns, 0-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	227.84	182.25
03 41 26 00-0032 EA Erect Precast Concrete Columns, 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	242.23	193.75
03 41 26 00-0033 EA Erect Precast Concrete Columns, 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	259.61	207.71
03 41 26 00-0034 EA Erect Precast Concrete Columns, 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	278.47	222.77
03 41 26 00-0035 EA Erect Precast Concrete Columns, 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	300.28	240.19
03 41 26 00-0036 EA Erect Precast Concrete Columns, 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	325.81	260.65
03 41 26 00-0037 EA Erect Precast Concrete Columns, 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	356.08	284.88
03 41 26 00-0038 Material Cost (03 41 26 00-0029)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast operations.		
03 41 26 00-0039 12" x 12" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0040 CY 12" x 12" Precast Column, Tied, Average Reinforced 351 LB/CY	592.83	
For 3,500 PSI Concrete, Add	44.46	
For 4,000 PSI Concrete, Add	83.59	
For 4,500 PSI Concrete, Add	123.31	
For 5,000 PSI Concrete, Add	167.77	
03 41 26 00-0041 16" x 16" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0042 CY 16" x 16" Precast Column, Tied, Average Reinforced 368 LB/CY	607.47	
For 3,500 PSI Concrete, Add	45.66	
For 4,000 PSI Concrete, Add	85.65	
For 4,500 PSI Concrete, Add	126.35	
For 5,000 PSI Concrete, Add	171.91	
03 41 26 00-0043 20" x 20" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0044 CY 20" x 20" Precast Column, Tied, Average Reinforced 357 LB/CY	608.64	
For 3,500 PSI Concrete, Add	45.65	
For 4,000 PSI Concrete, Add	85.82	
For 4,500 PSI Concrete, Add	126.60	
For 5,000 PSI Concrete, Add	172.25	
03 41 26 00-0045 24" x 24" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0046 CY 24" x 24" Precast Column, Tied, Average Reinforced 365 LB/CY	608.64	
For 3,500 PSI Concrete, Add	45.65	
For 4,000 PSI Concrete, Add	85.82	
For 4,500 PSI Concrete, Add	126.60	
For 5,000 PSI Concrete, Add	172.25	
03 41 26 00-0047 28" x 28" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0048 CY 28" x 28" Precast Column, Tied, Average Reinforced 347 LB/CY	608.64	
For 3,500 PSI Concrete, Add	45.65	
For 4,000 PSI Concrete, Add	85.82	
For 4,500 PSI Concrete, Add	126.60	
For 5,000 PSI Concrete, Add	172.25	
03 41 26 00-0049 32" x 32" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0050 CY 32" x 32" Precast Column, Tied, Average Reinforced 351 LB/CY	607.47	
For 3,500 PSI Concrete, Add	45.66	
For 4,000 PSI Concrete, Add	85.65	
For 4,500 PSI Concrete, Add	126.35	
For 5,000 PSI Concrete, Add	171.91	
03 41 26 00-0051 36" x 36" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0052 CY 36" x 36" Precast Column, Tied, Average Reinforced 278 LB/CY	608.64	
For 3,500 PSI Concrete, Add	45.65	
For 4,000 PSI Concrete, Add	85.82	
For 4,500 PSI Concrete, Add	126.60	
For 5,000 PSI Concrete, Add	172.25	

03	Concrete
03 40	Precast Concrete
03 41	Precast Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 41 33 Precast Structural Pretensioned Concrete (03 41)

03 41 33 00-0001	Slabs, Roof And Floor Members (03 41 33)		
03 41 33 00-0002	SF 4" Thick Precast Prestressed Slab, 12-16' Span Roof/Floor.....	12.46	1.86
03 41 33 00-0003	SF 6" Thick Precast Prestressed Slab, 16-25' Span Roof/Floor.....	15.45	1.86
03 41 33 00-0004	SF 8" Thick Precast Prestressed Slab, 25-32' Span Roof/Floor.....	18.46	1.95
03 41 33 00-0005	SF 10" Thick Precast Prestressed Slab, 32-40' Span Roof/Floor.....	21.47	2.04
03 41 33 00-0006	Tee Members (03 41 33)		
03 41 33 00-0007	Multiple Tee, Roof And Floor (03 41 33 00-0006)		
03 41 33 00-0008	SF Prestressed Multiple Tee, Roof And Floor Members	27.66	2.41
03 41 33 00-0009	Double Tee Wall Member (03 41 33 00-0006)		
03 41 33 00-0010	SF Prestressed Double Tee Wall Members Precast Concrete, <40' Span.....	39.74	6.59
03 41 33 00-0011	Single Tee, Short Span, Roof Members (03 41 33 00-0006)		
03 41 33 00-0012	SF Prestressed Single Tee, Short Span Roof Precast Concrete Members, <40' Span.....	32.72	3.99
03 41 33 00-0013	Single Tee, Long Span, Roof Members (03 41 33 00-0006)		
03 41 33 00-0014	SF Prestressed Single Tee, Long Span Roof Precast Concrete Members, <40' Span	39.02	3.43
03 41 33 00-0015	Prestressed Concrete Items (03 41 33)		
03 41 33 00-0016	Prestressed Quad Tee (03 41 33 00-0015)		
03 41 33 00-0017	SF Tees, Prestressed Quad Tee, Short Spans, Roof.....	19.83	0.74
03 41 33 00-0018	SF Tees, Prestressed Quad Tee, Short Spans, Floor.....	20.69	0.74
03 41 33 00-0019	Prestressed Double Tee (03 41 33 00-0015)		
03 41 33 00-0020	SF Tees, Double Tee, Floor Members , 60' Span	32.87	0.65
03 41 33 00-0021	SF Tees, Double Tee, Floor Members , 80' Span	45.22	0.65
03 41 33 00-0022	SF Tees, Double Tee, Roof Members, 30' Span.....	22.55	1.11
03 41 33 00-0023	SF Tees, Double Tee, Roof Members, 50' Span.....	34.77	0.74
03 41 33 00-0024	SF Tees, Double Tee, Wall Members, Up To 55' High.....	24.49	1.49
03 41 33 00-0025	Prestressed Single Tee (03 41 33 00-0015)		
03 41 33 00-0026	SF Tees, Single Tee Roof Members, 40' Span	39.07	1.67
03 41 33 00-0027	SF Tees, Single Tee Roof Members, 80' Span	45.09	1.02
03 41 33 00-0028	SF Tees, Single Tee Roof Members, 100' Span	59.56	0.92
03 41 33 00-0029	SF Tees, Single Tee Roof Members, 120' Span	62.71	0.92
03 41 33 00-0030	Prestressed Double Tee Floor Members (03 41 33 00-0015)		
03 41 33 00-0031	EA Tees, Double Tees, Floor Members, Lightweight, 20" X 8' Wide, 45'	10,071.11	267.14
03 41 33 00-0032	EA Tees, Double Tees, Floor Members, Lightweight, 24" X 8' Wide, 50'	10,967.34	296.82
03 41 33 00-0033	EA Tees, Double Tees, Floor Members, Lightweight, 32" X 10' Wide, 60'	18,316.54	333.93
03 41 33 00-0034	EA Tees, Double Tees, Floor Members, Standard Weight, 12" X 8' Wide, 25'	3,969.37	242.93
03 41 33 00-0035	EA Tees, Double Tees, Floor Members, Standard Weight, 16" X 8' Wide, 25'	5,202.54	267.14
03 41 33 00-0036	EA Tees, Double Tees, Floor Members, Standard Weight, 18" X 8' Wide, 35'	6,634.47	267.14
03 41 33 00-0037	EA Tees, Double Tees, Floor Members, Standard Weight, 20" X 8' Wide, 45'	7,387.51	296.82
03 41 33 00-0038	EA Tees, Double Tees, Floor Members, Standard Weight, 24" X 8' Wide, 50'	9,438.54	333.93
03 41 33 00-0039	EA Tees, Double Tees, Floor Members, Standard Weight, 32" X 10' Wide, 60'	16,944.45	381.79
03 41 33 00-0040	Plant Produced Pretensioned Prestressed Concrete Hollow Core Slab (03 41 33)		
03 41 33 00-0041	SF Hollow Core Slab, 4" Slab, 12' - 16' Spans, Plant Produced Pretensioned Prestressed Concrete	20.93	
03 41 33 00-0042	SF Hollow Core Slab, 6" Slab, 16' - 25' Spans, Plant Produced Pretensioned Prestressed Concrete	21.80	
03 41 33 00-0043	SF Hollow Core Slab, 8" Slab, 25' - 30' Spans, Plant Produced Pretensioned Prestressed Concrete	22.85	
03 41 33 00-0044	SF Hollow Core Slab, 10" Slab, 30' - 35' Spans, Plant Produced Pretensioned Prestressed Concrete	23.66	
03 41 33 00-0045	SF Hollow Core Slab, 12" Slab, 35' - 40' Spans, Plant Produced Pretensioned Prestressed Concrete	25.31	
03 41 33 00-0046	Double And Single Tees (03 41 33)		
03 41 33 00-0047	Double And Single Tees With 16" Roof And Floor Loading (03 41 33 00-0046)		
03 41 33 00-0048	SF Double Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	25.37	
03 41 33 00-0049	SF Double Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	24.75	
03 41 33 00-0050	SF Double Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	23.37	
03 41 33 00-0051	SF Double Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete.....	25.37	
03 41 33 00-0052	SF Double Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete.....	25.27	
03 41 33 00-0053	SF Single Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete.....	38.77	



Concrete	03	03
Precast Concrete	03 40	
Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 33 00-0054 SF Single Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	37.90	
03 41 33 00-0055 SF Single Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	35.48	
03 41 33 00-0056 SF Single Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	38.77	
03 41 33 00-0057 SF Single Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	36.35	
03 41 33 00-0058 Double And Single Tees With 24" Roof And Floor Loading <small>(03 41 33 00-0046)</small>		
03 41 33 00-0059 SF Double Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	26.14	
03 41 33 00-0060 SF Double Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	25.53	
03 41 33 00-0061 SF Double Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	24.65	
03 41 33 00-0062 SF Double Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	26.14	
03 41 33 00-0063 SF Double Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	25.27	
03 41 33 00-0064 SF Single Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	39.80	
03 41 33 00-0065 SF Single Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	38.93	
03 41 33 00-0066 SF Single Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	37.54	
03 41 33 00-0067 SF Single Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	39.80	
03 41 33 00-0068 SF Single Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	38.67	
03 41 33 00-0069 Double And Single Tees With 32" Roof And Floor Loading <small>(03 41 33 00-0046)</small>		
03 41 33 00-0070 SF Double Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete	27.56	
03 41 33 00-0071 SF Double Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete	26.68	
03 41 33 00-0072 SF Double Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete	25.81	
03 41 33 00-0073 SF Single Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete	42.25	
03 41 33 00-0074 SF Single Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete	40.86	
03 41 33 00-0075 SF Single Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete	39.21	
03 48 Precast Concrete Specialties <small>(03 40)</small>		
03 48 16 Precast Concrete Splash Blocks <small>(03 48)</small>		
03 48 16 00-0001 Precast Concrete Splash Blocks <small>(03 48 16)</small>		
03 48 16 00-0002 EA Precast Concrete Splash Blocks, Standard Size	27.79	3.16
03 48 21 Precast Concrete Handrails <small>(03 48)</small>		
03 48 21 00-0001 Installation Cost <small>(03 48 21)</small>		
Note: Includes handling, hoisting into place, alignment, and permanent connections. Excludes grouting.		
03 48 21 00-0002 EA Install Precast Handrails, 0-2 Ton/Handrail	130.28	58.65
03 48 21 00-0003 EA Install Precast Handrails, Over 2 Ton/Handrail	156.24	70.29
03 48 21 00-0004 Material Cost <small>(03 48 21)</small>		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast operations.		
03 48 21 00-0005 CY 4" Thick 3,000 PSI Concrete Precast Concrete Handrail	2,262.53	
For 3,500 PSI Concrete, Add	147.63	
For 4,000 PSI Concrete, Add	277.39	
For 4,500 PSI Concrete, Add	407.71	
For 5,000 PSI Concrete, Add	554.66	
03 48 21 00-0006 CY 5" Thick 3,000 PSI Concrete Precast Concrete Handrail	2,348.45	
For 3,500 PSI Concrete, Add	153.24	
For 4,000 PSI Concrete, Add	287.92	
For 4,500 PSI Concrete, Add	423.19	
For 5,000 PSI Concrete, Add	575.72	
03 48 21 00-0007 CY 6" Thick 3,000 PSI Concrete Precast Concrete Handrail	2,434.37	
For 3,500 PSI Concrete, Add	158.84	
For 4,000 PSI Concrete, Add	298.45	
For 4,500 PSI Concrete, Add	438.67	
For 5,000 PSI Concrete, Add	596.79	
03 48 21 00-0008 CY 8" Thick 3,000 PSI Concrete Precast Concrete Handrail	2,548.93	
For 3,500 PSI Concrete, Add	166.32	
For 4,000 PSI Concrete, Add	312.50	
For 4,500 PSI Concrete, Add	459.32	
For 5,000 PSI Concrete, Add	624.87	
03 48 22 Precast Concrete Sun Screen And Trellis <small>(03 48)</small>		
03 48 22 00-0001 Sun Screen Blades <small>(03 48 22)</small>		
03 48 22 00-0002 Installation Cost <small>(03 48 22 00-0001)</small>		
Note: Includes handling, hoisting into place, alignment, bracing, and permanent connections.		
03 48 22 00-0003 EA Install Precast Sun Screen Blade, 0-1 Ton/Each	65.14	29.33
03 48 22 00-0004 EA Install Precast Sun Screen Blade, 1-2 Ton/Each	78.26	35.19
03 48 22 00-0005 EA Install Precast Sun Screen Blade, 2-3 Ton/Each	97.78	44.04
03 48 22 00-0006 Material Cost <small>(03 48 22 00-0001)</small>		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		

03 Concrete**03 40 Precast Concrete****03 48 Precast Concrete Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 22 00-0007	CY		4" Thick 3,000 PSI Concrete Precast Sun Screen Blades.....	2,405.73	
			For 3,500 PSI Concrete, Add	156.97	
			For 4,000 PSI Concrete, Add	294.94	
			For 4,500 PSI Concrete, Add	433.51	
			For 5,000 PSI Concrete, Add	589.76	
03 48 22 00-0008	CY		5" Thick 3,000 PSI Concrete Precast Sun Screen Blades.....	2,491.65	
			For 3,500 PSI Concrete, Add	162.58	
			For 4,000 PSI Concrete, Add	305.48	
			For 4,500 PSI Concrete, Add	449.00	
			For 5,000 PSI Concrete, Add	610.83	
03 48 22 00-0009	CY		6" Thick 3,000 PSI Concrete Precast Sun Screen Blades.....	2,606.21	
			For 3,500 PSI Concrete, Add	170.06	
			For 4,000 PSI Concrete, Add	319.52	
			For 4,500 PSI Concrete, Add	469.64	
			For 5,000 PSI Concrete, Add	638.91	
03 48 22 00-0010	CY		8" Thick 3,000 PSI Concrete Precast Sun Screen Blades.....	2,720.76	
			For 3,500 PSI Concrete, Add	177.53	
			For 4,000 PSI Concrete, Add	333.57	
			For 4,500 PSI Concrete, Add	490.28	
			For 5,000 PSI Concrete, Add	666.99	
03 48 22 00-0011			Sun Screen/Trellis Units (03 48 22)		
03 48 22 00-0012			Installation Cost Using A 50 Ton Hydraulic Crane (03 48 22 00-0011)		
			Note: Includes handling, hoisting into place, alignment, bracing and permanent to connections.		
03 48 22 00-0013	EA		Install Precast Trellis, 0-1 Tons/Unit 100' Maximum Radius With 50 Ton Crane.....	297.80	133.99
03 48 22 00-0014	EA		Install Precast Trellis, 1-3 Tons/Unit 65' Maximum Radius With 50 Ton Crane.....	333.10	149.95
03 48 22 00-0015	EA		Install Precast Trellis, 3-5 Tons/Unit 50' Maximum Radius With 50 Ton Crane.....	377.91	170.04
03 48 22 00-0016	EA		Install Precast Trellis, 5-7 Tons/Unit 40' Maximum Radius With 50 Ton Crane.....	403.89	181.75
03 48 22 00-0017			Material Cost (03 48 22 00-0011)		
			Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 22 00-0018	CY		4" Thick 3,000 PSI Concrete Precast Trellises Blades.....	2,778.04	
			For 3,500 PSI Concrete, Add	181.27	
			For 4,000 PSI Concrete, Add	340.59	
			For 4,500 PSI Concrete, Add	500.60	
			For 5,000 PSI Concrete, Add	681.04	
03 48 22 00-0019	CY		5" Thick 3,000 PSI Concrete Precast Trellises Blades.....	2,863.96	
			For 3,500 PSI Concrete, Add	186.87	
			For 4,000 PSI Concrete, Add	351.12	
			For 4,500 PSI Concrete, Add	516.09	
			For 5,000 PSI Concrete, Add	702.10	
03 48 22 00-0020	CY		6" Thick 3,000 PSI Concrete Precast Trellises Blades.....	2,978.52	
			For 3,500 PSI Concrete, Add	194.35	
			For 4,000 PSI Concrete, Add	365.17	
			For 4,500 PSI Concrete, Add	536.73	
			For 5,000 PSI Concrete, Add	730.18	
03 48 22 00-0021	CY		8" Thick 3,000 PSI Concrete Precast Trellises Blades.....	3,121.72	
			For 3,500 PSI Concrete, Add	203.69	
			For 4,000 PSI Concrete, Add	382.72	
			For 4,500 PSI Concrete, Add	562.53	
			For 5,000 PSI Concrete, Add	765.29	
03 48 24			Precast Minaret Segments (03 48)		
03 48 24 00-0001			Installation Costs Using A 50 Ton Hydraulic Crane (03 48 24)		
			Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 24 00-0002			L - Shaped Segments (03 48 24 00-0001)		
03 48 24 00-0003	EA		Install Minaret, L-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane.....	289.78	231.83
03 48 24 00-0004	EA		Install Minaret, L-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane.....	324.74	259.80
03 48 24 00-0005	EA		Install Minaret, L-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane.....	367.17	293.72
03 48 24 00-0006	EA		Install Minaret, L-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane.....	391.65	313.32
03 48 24 00-0007			O - Shaped Segments (03 48 24 00-0001)		
03 48 24 00-0008	EA		Install Minaret, O-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane.....	306.26	245.06
03 48 24 00-0009	EA		Install Minaret, O-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane.....	343.73	274.95
03 48 24 00-0010	EA		Install Minaret, O-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane.....	389.29	311.40
03 48 24 00-0011	EA		Install Minaret, O-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane.....	416.92	333.51
03 48 24 00-0012			Platform Segment (03 48 24 00-0001)		
03 48 24 00-0013	EA		Install Minaret, Platform Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane.....	587.47	470.03
03 48 24 00-0014	EA		Install Minaret, Platform Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane.....	710.14	568.07
03 48 24 00-0015	EA		Install Minaret, Platform Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane.....	788.08	630.47
03 48 24 00-0016	EA		Install Minaret, Platform Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane.....	885.24	708.22
03 48 24 00-0017			Cap Segment (03 48 24 00-0001)		
03 48 24 00-0018	EA		Install Minaret, Cap Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane.....	321.50	257.18



Concrete	03	03
Precast Concrete	03 40	
Precast Concrete Specialties	03 48	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 24 00-0019 EA Install Minaret, Cap Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	359.02	287.17
03 48 24 00-0020 EA Install Minaret, Cap Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	409.00	327.15
03 48 24 00-0021 EA Install Minaret, Cap Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	436.64	349.26
03 48 24 00-0022 Installation Costs Using A 90 Ton Crawler Crane (03 48 24)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting and caulking of joints.		
03 48 24 00-0023 L - Shaped Segments (03 48 24 00-0022)		
03 48 24 00-0024 EA Install Minaret, L-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	292.20	233.77
03 48 24 00-0025 EA Install Minaret, L-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	327.45	261.97
03 48 24 00-0026 EA Install Minaret, L-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	370.24	296.18
03 48 24 00-0027 EA Install Minaret, L-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	394.92	315.94
03 48 24 00-0028 O - Shaped Segment (03 48 24 00-0022)		
03 48 24 00-0029 EA Install Minaret, O-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	308.82	247.10
03 48 24 00-0030 EA Install Minaret, O-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	346.60	277.24
03 48 24 00-0031 EA Install Minaret, O-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	392.54	314.00
03 48 24 00-0032 EA Install Minaret, O-Shaped Segments, 5-7 Ton/Each 79.5' Maximum Radius With 90 Ton Crane	420.40	336.29
03 48 24 00-0033 Platform Segment (03 48 24 00-0022)		
03 48 24 00-0034 EA Install Minaret, Platform Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	472.18	377.73
03 48 24 00-0035 EA Install Minaret, Platform Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	571.60	457.25
03 48 24 00-0036 EA Install Minaret, Platform Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	632.63	506.12
03 48 24 00-0037 EA Install Minaret, Platform Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	716.07	572.81
03 48 24 00-0038 Cap Segment (03 48 24 00-0022)		
03 48 24 00-0039 EA Install Minaret, Cap Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	324.19	259.32
03 48 24 00-0040 EA Install Minaret, Cap Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	362.01	289.56
03 48 24 00-0041 EA Install Minaret, Cap Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	412.41	329.88
03 48 24 00-0042 EA Install Minaret, Cap Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	440.28	352.18
03 48 24 00-0043 Material Costs (03 48 24)		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 24 00-0044 CY Precast Concrete Minaret, L-Shaped Segments Including Post Tension Cost, 3,000 PSI Concrete	6,873.13	
03 48 24 00-0045 CY Precast Concrete Minaret, O-Shaped Segments Including Post Tension Cost, 3,000 PSI Concrete	6,873.13	
03 48 24 00-0046 CY Precast Concrete Minaret, Platform Segments Including Post Tension Cost, 3,000 PSI Concrete	6,873.13	
03 48 24 00-0047 CY Precast Concrete Minaret, Cap Segments Including Post Tension Cost, 3,000 PSI Concrete	6,873.13	
03 48 29 Precast Accessories (03 48)		
Note: Includes installation labor, material and equipment.		
03 48 29 00-0001 Bearing Pads For Precast Members (03 48 29)		
03 48 29 00-0002 Continuous 2" Wide Strips (03 48 29 00-0001)		
03 48 29 00-0003 LF Bearing Pads, Continuous 2" Wide x 1/8" Thick Strips	1.26	
Note: For precast members		
03 48 29 00-0004 LF Bearing Pads, Continuous 2" Wide x 1/4" Thick Strips	1.86	
Note: For precast members.		
03 48 29 00-0005 LF Bearing Pads, Continuous 2" Wide x 1/2" Thick Strips	3.17	
Note: For precast members		
03 48 29 00-0006 LF Bearing Pads, Continuous 2" Wide x 3/4" Thick Strips	4.51	
Note: For precast members		
03 48 29 00-0007 LF Bearing Pads, Continuous 2" Wide x 1" Thick Strips	5.89	
Note: For precast members		
03 48 29 00-0008 LF Bearing Pads, Continuous 2" Wide x 1-1/2" Thick Strips	8.52	
Note: For precast members		
03 48 29 00-0009 Bearing Pad Pipe Supports (03 48 29)		
03 48 29 00-0010 LF 4" x 4" Precast Pipe Support	9.71	
03 48 46 Precast Skylight Shells (03 46)		
03 48 46 00-0001 Installation Cost Using A 90 Ton Crawler Crane (03 48 46)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 46 00-0002 EA Install Precast Skylight Shell, 0-4 Tons/Each Based On 90 Ton Crawler Crane	423.20	190.47
03 48 46 00-0003 EA Install Precast Skylight Shell, 4-6 Tons/Each Based On 90 Ton Crawler Crane	469.92	211.48
03 48 46 00-0004 EA Install Precast Skylight Shell, 6-8 Tons/Each Based On 90 Ton Crawler Crane	528.23	237.71
03 48 46 00-0005 Material Cost (03 48 46)		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 46 00-0006 CY 3.5" Thick 3,000 PSI Concrete Precast Skylight With 4.4' Radius	2,875.50	

03	Concrete
03 40	Precast Concrete
03 48	Precast Concrete Specialties



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 48 49 Precast Landings (03 48)

03 48 49 00-0001	SF	3" Thick Precast Landing	72.99	
03 48 49 00-0002	SF	4" Thick Precast Landing	85.05	
03 48 49 00-0003	SF	5" Thick Precast Landing	96.70	
03 48 49 00-0004	SF	6" Thick Precast Landing	111.50	

03 48 54 Precast Concrete Blocks (03 48)

03 48 54 00-0001 Precast Concrete Blocks (03 48 54)

03 48 54 00-0002	EA	2' x 2' x 2' Precast Concrete Block	88.26	33.78
03 48 54 00-0003	EA	2' x 2' x 4' Precast Concrete Block	126.15	42.22
03 48 54 00-0004	EA	2' x 2' x 8' Precast Concrete Block	210.49	50.66

03 50 Cast Decks And Underlayment (03)

03 53 Concrete Topping (03 50)

Note: Installed over new or existing concrete.

03 53 14 Granolithic Concrete Topping (03 53)

03 53 14 00-0001 Granolithic Topping Laid After (03 53 14)

Note: Using 1:1:1-1/2 mix.

03 53 14 00-0002	SF	1/2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	3.47	
03 53 14 00-0003	SF	1" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	3.76	
03 53 14 00-0004	SF	2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	4.76	

03 53 19 Concrete Overlay (03 53)

03 53 19 00-0001 Integral Topping Including Hard Trowel Finish (03 53 19)

Note: Using 1:1:2 mix.

03 53 19 00-0002	SF	3/16" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	2.07	
03 53 19 00-0003	SF	1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	2.33	
03 53 19 00-0004	SF	3/4" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	2.72	
03 53 19 00-0005	SF	1" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	3.25	
03 53 19 00-0006	SF	2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	4.65	
03 53 19 00-0007	SF	2-1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	4.03	
03 53 19 00-0008	SF	3" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	4.53	

03 54 Cast Underlayment (03 50)

Note: Includes primer. Excludes sandblasting existing smooth finished concrete surface (where necessary).

03 54 16 Hydraulic Cement Underlayment (03 54)

03 54 16 00-0001 Self Leveling Cementitious Underlayment For Floors (03 54 16)

Note: Includes primer.

03 54 16 00-0002	SF	1/8" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation	1.91	
03 54 16 00-0003	SF	1/4" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation	2.97	
03 54 16 00-0004	SF	1/2" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation	5.07	
03 54 16 00-0005	SF	3/4" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation	7.18	
03 54 16 00-0006	SF	1" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation	9.28	
03 54 16 00-0007	SF	1-1/4" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation	12.08	
03 54 16 00-0008	SF	1-1/2" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation	13.49	
03 54 16 00-0009	SF	1-3/4" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation	17.71	

03 60 Grouting (03)

03 61 Cementitious Grouting (03 60)

Note: 1 part cement to 3 parts sand by volume.

03 61 16 Cementitious Flowable Grout (03 61)

03 61 16 00-0001 Cementitious Flowable Grout (03 61 16)

03 61 16 00-0002	CY	Cementitious Flowable Grout	380.60	
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03 62 Non-Shrink Grouting (03 60)

03 62 13 Non-Metallic Non-Shrink Grouting (03 62)

03 62 13 00-0001 Fluid Type, Non-Metallic Non-Shrink Grouting For Bases (03 62 13)

03 62 13 00-0002	SF	1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	21.48	
03 62 13 00-0003	SF	2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	32.11	

03 62 13 00-0004 Non-Metallic Non-Shrink Grouting For Bases (03 62 13)

03 62 13 00-0005	SF	1" Deep, Non-Metallic Non-Shrink Grout For Bases	33.04	
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Concrete	03	03
Grouting	03 60	
Non-Shrink Grouting	03 62	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 62 13 00-0006 SF 2" Deep, Non-Metallic Non-Shrink Grout For Bases.....	53.35	
03 62 13 00-0007 Non-Metallic Non-Shrink Grouting For Joints (03 62 13)		
03 62 13 00-0008 1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)		
03 62 13 00-0009 LF 4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints.....	1.71	
03 62 13 00-0010 LF 6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints.....	2.23	
03 62 13 00-0011 LF 8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints.....	2.96	
03 62 13 00-0012 1" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)		
03 62 13 00-0013 LF 4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints.....	2.53	
03 62 13 00-0014 LF 6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints.....	3.39	
03 62 13 00-0015 LF 8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints.....	4.50	
03 62 16 Metallic Non-Shrink Grouting (03 62)		
03 62 16 00-0001 Metallic Non-Shrink Grouting For Bases (03 62 16)		
03 62 16 00-0002 SF 1" Deep, Metallic Non-Shrink Grout For Bases.....	27.68	
03 62 16 00-0003 SF 2" Deep, Metallic Non-Shrink Grout For Bases.....	42.96	
03 62 16 00-0004 Metallic Non-Shrink Grouting For Joints (03 62 16)		
03 62 16 00-0005 1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)		
03 62 16 00-0006 LF 4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	1.38	
03 62 16 00-0007 LF 6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	1.73	
03 62 16 00-0008 LF 8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	2.31	
03 62 16 00-0009 1" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)		
03 62 16 00-0010 LF 4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	1.88	
03 62 16 00-0011 LF 6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	2.38	
03 62 16 00-0012 LF 8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	3.17	
03 64 Injection Grouting (03 60)		
Note: By volume of void filled. Includes injection ports.		
03 64 23 Epoxy Injection Grouting (03 64)		
03 64 23 00-0001 Pressure Injected Epoxy Grout (03 64 23)		
03 64 23 00-0002 CF Pressure Injected Epoxy Grout.....	1,091.15	
		-115.70
For >4, Deduct		
03 64 26 Cementitious Injection Grouting (03 64)		
03 64 26 00-0001 Pressure Injected Cementitious Grout (03 64 26)		
03 64 26 00-0002 CF Pressure Injected Cementitious Grout.....	139.88	
		-33.45
For >4, Deduct		
03 80 Concrete Cutting And Boring (03)		
03 81 Concrete Cutting (03 80)		
03 81 13 Flat Concrete Sawing (03 81)		
See CSI section 02 41 19 13-0056 for saw cutting.		
03 81 16 Track Mounted Concrete Wall Sawing (03 81)		
See CSI section 02 41 19 13-0056 for saw cutting.		
03 82 Concrete Boring (03 80)		
03 82 13 Concrete Core Drilling (03 82)		
See CSI section 02 41 19 13-0079 for core drilling.		

END OF SECTION 03

03	03	Concrete
	03 80	Concrete Cutting And Boring
	03 82	Concrete Boring



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 Metals

05 05 Common Work Results For Metals ⁽⁰⁵⁾

05 05 19 Post-Installed Concrete Anchors ^(05 05)

See CSI section 03 15 19 00-0000 for cast-in concrete anchors.

05 05 19 00-0001 Concrete And Masonry Anchors ^(05 05 19)

05 05 19 00-0002 Expansion Anchors ^(05 05 19 00-0001)

Note: Includes drilling.

05 05 19 00-0003 Wedge Expansion Bolt Anchors ^(05 05 19 00-0002)

05 05 19 00-0004 Zinc Plated Steel, Wedge Anchor Expansion Bolt ^(05 05 19 00-0003)

Note: Includes nut and washer.

05 05 19 00-0005	EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	10.04	
	For >10 To 50, Deduct	-0.48	
	For >50 To 100, Deduct	-0.96	
	For >100, Deduct	-1.93	
05 05 19 00-0006	EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	10.13	
	For >10 To 50, Deduct	-0.48	
	For >50 To 100, Deduct	-0.97	
	For >100, Deduct	-1.93	
05 05 19 00-0007	EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	10.43	
	For >10 To 50, Deduct	-0.49	
	For >50 To 100, Deduct	-0.99	
	For >100, Deduct	-1.99	
05 05 19 00-0008	EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.32	
	For >10 To 50, Deduct	-0.58	
	For >50 To 100, Deduct	-1.18	
	For >100, Deduct	-2.35	
05 05 19 00-0009	EA 3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.38	
	For >10 To 50, Deduct	-0.58	
	For >50 To 100, Deduct	-1.18	
	For >100, Deduct	-2.35	
05 05 19 00-0010	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.40	
	For >10 To 50, Deduct	-0.58	
	For >50 To 100, Deduct	-1.18	
	For >100, Deduct	-2.35	
05 05 19 00-0011	EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.64	
	For >10 To 50, Deduct	-0.58	
	For >50 To 100, Deduct	-1.18	
	For >100, Deduct	-2.37	
05 05 19 00-0012	EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.81	
	For >10 To 50, Deduct	-0.82	
	For >50 To 100, Deduct	-1.68	
	For >100, Deduct	-3.36	
05 05 19 00-0013	EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.86	
	For >10 To 50, Deduct	-0.82	
	For >50 To 100, Deduct	-1.68	
	For >100, Deduct	-3.36	
05 05 19 00-0014	EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.96	
	For >10 To 50, Deduct	-0.82	
	For >50 To 100, Deduct	-1.68	
	For >100, Deduct	-3.36	
05 05 19 00-0015	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	18.23	
	For >10 To 50, Deduct	-0.82	
	For >50 To 100, Deduct	-1.69	
	For >100, Deduct	-3.38	
05 05 19 00-0016	EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	18.60	
	For >10 To 50, Deduct	-0.82	
	For >50 To 100, Deduct	-1.70	
	For >100, Deduct	-3.40	
05 05 19 00-0017	EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	23.05	
	For >10 To 50, Deduct	-1.02	
	For >50 To 100, Deduct	-2.10	
	For >100, Deduct	-4.20	
05 05 19 00-0018	EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	23.13	
	For >10 To 50, Deduct	-1.02	
	For >50 To 100, Deduct	-2.10	
	For >100, Deduct	-4.20	
05 05 19 00-0019	EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	23.30	
	For >10 To 50, Deduct	-1.02	
	For >50 To 100, Deduct	-2.11	
	For >100, Deduct	-4.21	
05 05 19 00-0020	EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	23.63	
	For >10 To 50, Deduct	-1.02	
	For >50 To 100, Deduct	-2.11	
	For >100, Deduct	-4.23	
05 05 19 00-0021	EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	23.97	
	For >10 To 50, Deduct	-1.02	
	For >50 To 100, Deduct	-2.12	
	For >100, Deduct	-4.24	

05 Metals**05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0022	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	26.59	
			<i>For >10 To 50, Deduct</i>	-1.02	
			<i>For >50 To 100, Deduct</i>	-2.19	
			<i>For >100, Deduct</i>	-4.37	
05 05 19 00-0023	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	28.84	
			<i>For >10 To 50, Deduct</i>	-1.02	
			<i>For >50 To 100, Deduct</i>	-2.24	
			<i>For >100, Deduct</i>	-4.49	
05 05 19 00-0024	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	27.79	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-2.51	
			<i>For >100, Deduct</i>	-5.01	
05 05 19 00-0025	EA		3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	27.86	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-2.51	
			<i>For >100, Deduct</i>	-5.02	
05 05 19 00-0026	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	28.26	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-2.52	
			<i>For >100, Deduct</i>	-5.04	
05 05 19 00-0027	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	28.74	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-2.53	
			<i>For >100, Deduct</i>	-5.06	
05 05 19 00-0028	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	29.29	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-2.54	
			<i>For >100, Deduct</i>	-5.09	
05 05 19 00-0029	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	31.39	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-2.60	
			<i>For >100, Deduct</i>	-5.19	
05 05 19 00-0030	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	34.18	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-2.67	
			<i>For >100, Deduct</i>	-5.33	
05 05 19 00-0031	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	37.34	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-2.74	
			<i>For >100, Deduct</i>	-5.49	
05 05 19 00-0032	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	36.59	
			<i>For >10 To 50, Deduct</i>	-1.31	
			<i>For >50 To 100, Deduct</i>	-2.88	
			<i>For >100, Deduct</i>	-5.76	
05 05 19 00-0033	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	38.25	
			<i>For >10 To 50, Deduct</i>	-1.31	
			<i>For >50 To 100, Deduct</i>	-2.92	
			<i>For >100, Deduct</i>	-5.84	
05 05 19 00-0034	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	40.45	
			<i>For >10 To 50, Deduct</i>	-1.31	
			<i>For >50 To 100, Deduct</i>	-2.98	
			<i>For >100, Deduct</i>	-5.95	
05 05 19 00-0035	EA		1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	45.48	
			<i>For >10 To 50, Deduct</i>	-1.70	
			<i>For >50 To 100, Deduct</i>	-3.68	
			<i>For >100, Deduct</i>	-7.36	
05 05 19 00-0036	EA		1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	48.60	
			<i>For >10 To 50, Deduct</i>	-1.70	
			<i>For >50 To 100, Deduct</i>	-3.76	
			<i>For >100, Deduct</i>	-7.52	
05 05 19 00-0037	EA		1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	51.70	
			<i>For >10 To 50, Deduct</i>	-1.70	
			<i>For >50 To 100, Deduct</i>	-3.84	
			<i>For >100, Deduct</i>	-7.67	
05 05 19 00-0038	EA		1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	59.15	
			<i>For >10 To 50, Deduct</i>	-2.17	
			<i>For >50 To 100, Deduct</i>	-4.73	
			<i>For >100, Deduct</i>	-9.47	
05 05 19 00-0039	EA		1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	61.38	
			<i>For >10 To 50, Deduct</i>	-2.17	
			<i>For >50 To 100, Deduct</i>	-4.79	
			<i>For >100, Deduct</i>	-9.58	
05 05 19 00-0040			304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0041	EA		1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	10.78	
			<i>For >10 To 50, Deduct</i>	-0.48	
			<i>For >50 To 100, Deduct</i>	-0.98	
			<i>For >100, Deduct</i>	-1.97	
05 05 19 00-0042	EA		1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	11.07	
			<i>For >10 To 50, Deduct</i>	-0.48	
			<i>For >50 To 100, Deduct</i>	-0.99	
			<i>For >100, Deduct</i>	-1.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0043 EA 1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	11.51	
<i>For >10 To 50, Deduct</i>	-0.49	
<i>For >50 To 100, Deduct</i>	-1.02	
<i>For >100, Deduct</i>	-2.04	
05 05 19 00-0044 EA 3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.69	
<i>For >10 To 50, Deduct</i>	-0.58	
<i>For >50 To 100, Deduct</i>	-1.21	
<i>For >100, Deduct</i>	-2.42	
05 05 19 00-0045 EA 3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.95	
<i>For >10 To 50, Deduct</i>	-0.58	
<i>For >50 To 100, Deduct</i>	-1.22	
<i>For >100, Deduct</i>	-2.43	
05 05 19 00-0046 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.13	
<i>For >10 To 50, Deduct</i>	-0.58	
<i>For >50 To 100, Deduct</i>	-1.22	
<i>For >100, Deduct</i>	-2.44	
05 05 19 00-0047 EA 3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.51	
<i>For >10 To 50, Deduct</i>	-0.58	
<i>For >50 To 100, Deduct</i>	-1.25	
<i>For >100, Deduct</i>	-2.51	
05 05 19 00-0048 EA 1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	20.91	
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-1.76	
<i>For >100, Deduct</i>	-3.51	
05 05 19 00-0049 EA 1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.39	
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-1.77	
<i>For >100, Deduct</i>	-3.54	
05 05 19 00-0050 EA 1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.66	
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-1.77	
<i>For >100, Deduct</i>	-3.55	
05 05 19 00-0051 EA 1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.92	
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-1.81	
<i>For >100, Deduct</i>	-3.61	
05 05 19 00-0052 EA 1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	24.81	
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-1.85	
<i>For >100, Deduct</i>	-3.71	
05 05 19 00-0053 EA 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	29.36	
<i>For >10 To 50, Deduct</i>	-1.02	
<i>For >50 To 100, Deduct</i>	-2.26	
<i>For >100, Deduct</i>	-4.51	
05 05 19 00-0054 EA 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	30.59	
<i>For >10 To 50, Deduct</i>	-1.02	
<i>For >50 To 100, Deduct</i>	-2.29	
<i>For >100, Deduct</i>	-4.57	
05 05 19 00-0055 EA 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	31.92	
<i>For >10 To 50, Deduct</i>	-1.02	
<i>For >50 To 100, Deduct</i>	-2.32	
<i>For >100, Deduct</i>	-4.64	
05 05 19 00-0056 EA 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	33.69	
<i>For >10 To 50, Deduct</i>	-1.02	
<i>For >50 To 100, Deduct</i>	-2.36	
<i>For >100, Deduct</i>	-4.73	
05 05 19 00-0057 EA 5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	41.45	
<i>For >10 To 50, Deduct</i>	-1.02	
<i>For >50 To 100, Deduct</i>	-2.56	
<i>For >100, Deduct</i>	-5.12	
05 05 19 00-0058 EA 3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	35.03	
<i>For >10 To 50, Deduct</i>	-1.21	
<i>For >50 To 100, Deduct</i>	-2.69	
<i>For >100, Deduct</i>	-5.37	
05 05 19 00-0059 EA 3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	37.53	
<i>For >10 To 50, Deduct</i>	-1.21	
<i>For >50 To 100, Deduct</i>	-2.75	
<i>For >100, Deduct</i>	-5.50	
05 05 19 00-0060 EA 3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	39.66	
<i>For >10 To 50, Deduct</i>	-1.21	
<i>For >50 To 100, Deduct</i>	-2.80	
<i>For >100, Deduct</i>	-5.61	
05 05 19 00-0061 EA 3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	39.93	
<i>For >10 To 50, Deduct</i>	-1.21	
<i>For >50 To 100, Deduct</i>	-2.81	
<i>For >100, Deduct</i>	-5.62	
05 05 19 00-0062 EA 3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	41.93	
<i>For >10 To 50, Deduct</i>	-1.21	
<i>For >50 To 100, Deduct</i>	-2.86	
<i>For >100, Deduct</i>	-5.72	
05 05 19 00-0063 EA 3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	47.13	
<i>For >10 To 50, Deduct</i>	-1.21	
<i>For >50 To 100, Deduct</i>	-2.99	
<i>For >100, Deduct</i>	-5.98	

05 Metals**05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0064	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	54.46	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-3.17	
			<i>For >100, Deduct</i>	-6.35	
05 05 19 00-0065	EA		7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	55.15	
			<i>For >10 To 50, Deduct</i>	-1.31	
			<i>For >50 To 100, Deduct</i>	-3.34	
			<i>For >100, Deduct</i>	-6.69	
05 05 19 00-0066	EA		1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	79.33	
			<i>For >10 To 50, Deduct</i>	-1.70	
			<i>For >50 To 100, Deduct</i>	-4.53	
			<i>For >100, Deduct</i>	-9.05	
05 05 19 00-0067	EA		1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	90.18	
			<i>For >10 To 50, Deduct</i>	-1.70	
			<i>For >50 To 100, Deduct</i>	-4.80	
			<i>For >100, Deduct</i>	-9.60	
05 05 19 00-0068			316 Stainless Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0069	EA		1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	11.03	
			<i>For >10 To 50, Deduct</i>	-0.48	
			<i>For >50 To 100, Deduct</i>	-0.99	
			<i>For >100, Deduct</i>	-1.98	
05 05 19 00-0070	EA		1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	11.62	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-1.02	
			<i>For >100, Deduct</i>	-2.05	
05 05 19 00-0071	EA		3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.52	
			<i>For >10 To 50, Deduct</i>	-0.58	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100, Deduct</i>	-2.46	
05 05 19 00-0072	EA		3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.95	
			<i>For >10 To 50, Deduct</i>	-0.58	
			<i>For >50 To 100, Deduct</i>	-1.24	
			<i>For >100, Deduct</i>	-2.48	
05 05 19 00-0073	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.06	
			<i>For >10 To 50, Deduct</i>	-0.58	
			<i>For >50 To 100, Deduct</i>	-1.24	
			<i>For >100, Deduct</i>	-2.49	
05 05 19 00-0074	EA		3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.15	
			<i>For >10 To 50, Deduct</i>	-0.58	
			<i>For >50 To 100, Deduct</i>	-1.30	
			<i>For >100, Deduct</i>	-2.59	
05 05 19 00-0075	EA		1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.90	
			<i>For >10 To 50, Deduct</i>	-0.82	
			<i>For >50 To 100, Deduct</i>	-1.81	
			<i>For >100, Deduct</i>	-3.61	
05 05 19 00-0076	EA		1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	24.11	
			<i>For >10 To 50, Deduct</i>	-0.82	
			<i>For >50 To 100, Deduct</i>	-1.84	
			<i>For >100, Deduct</i>	-3.67	
05 05 19 00-0077	EA		1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	26.30	
			<i>For >10 To 50, Deduct</i>	-0.82	
			<i>For >50 To 100, Deduct</i>	-1.89	
			<i>For >100, Deduct</i>	-3.78	
05 05 19 00-0078	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	26.85	
			<i>For >10 To 50, Deduct</i>	-0.82	
			<i>For >50 To 100, Deduct</i>	-1.90	
			<i>For >100, Deduct</i>	-3.81	
05 05 19 00-0079	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	36.09	
			<i>For >10 To 50, Deduct</i>	-1.02	
			<i>For >50 To 100, Deduct</i>	-2.42	
			<i>For >100, Deduct</i>	-4.85	
05 05 19 00-0080	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	36.75	
			<i>For >10 To 50, Deduct</i>	-1.02	
			<i>For >50 To 100, Deduct</i>	-2.44	
			<i>For >100, Deduct</i>	-4.88	
05 05 19 00-0081	EA		3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	44.44	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-2.92	
			<i>For >100, Deduct</i>	-5.84	
05 05 19 00-0082	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	47.18	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-2.99	
			<i>For >100, Deduct</i>	-5.98	
05 05 19 00-0083			Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0084	EA		1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	20.74	
			<i>For >10 To 50, Deduct</i>	-0.82	
			<i>For >50 To 100, Deduct</i>	-1.75	
			<i>For >100, Deduct</i>	-3.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0085 EA 1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	21.87	
For >10 To 50, Deduct	-0.82	
For >50 To 100, Deduct	-1.78	
For >100, Deduct	-3.56	
05 05 19 00-0086 EA 1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	23.01	
For >10 To 50, Deduct	-0.82	
For >50 To 100, Deduct	-1.81	
For >100, Deduct	-3.62	
05 05 19 00-0087 EA 1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	23.58	
For >10 To 50, Deduct	-0.82	
For >50 To 100, Deduct	-1.82	
For >100, Deduct	-3.65	
05 05 19 00-0088 EA 5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	28.46	
For >10 To 50, Deduct	-1.02	
For >50 To 100, Deduct	-2.23	
For >100, Deduct	-4.47	
05 05 19 00-0089 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	27.10	
For >10 To 50, Deduct	-1.02	
For >50 To 100, Deduct	-2.20	
For >100, Deduct	-4.40	
05 05 19 00-0090 EA 3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	36.84	
For >10 To 50, Deduct	-1.21	
For >50 To 100, Deduct	-2.73	
For >100, Deduct	-5.46	
05 05 19 00-0091 EA 3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	38.09	
For >10 To 50, Deduct	-1.21	
For >50 To 100, Deduct	-2.76	
For >100, Deduct	-5.53	
05 05 19 00-0092 EA 3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	44.22	
For >10 To 50, Deduct	-1.21	
For >50 To 100, Deduct	-2.92	
For >100, Deduct	-5.83	
05 05 19 00-0093 EA 1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	46.98	
For >10 To 50, Deduct	-1.70	
For >50 To 100, Deduct	-3.72	
For >100, Deduct	-7.44	
05 05 19 00-0094 EA 1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	50.51	
For >10 To 50, Deduct	-1.70	
For >50 To 100, Deduct	-3.81	
For >100, Deduct	-7.61	
05 05 19 00-0095 EA 1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	54.00	
For >10 To 50, Deduct	-1.70	
For >50 To 100, Deduct	-3.89	
For >100, Deduct	-7.79	
05 05 19 00-0096 Concrete Sleeve Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0097 Zinc Plated Steel, Concrete Sleeve Anchors <small>(05 05 19 00-0096)</small>		
Note: Includes nut and washer.		
05 05 19 00-0098 EA 1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	10.11	
For >10 To 50, Deduct	-0.49	
For >50 To 100, Deduct	-0.98	
For >100, Deduct	-1.96	
05 05 19 00-0099 EA 1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	10.23	
For >10 To 50, Deduct	-0.49	
For >50 To 100, Deduct	-0.98	
For >100, Deduct	-1.97	
05 05 19 00-0100 EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	10.38	
For >10 To 50, Deduct	-0.49	
For >50 To 100, Deduct	-0.99	
For >100, Deduct	-1.98	
05 05 19 00-0101 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	10.65	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.03	
For >100, Deduct	-2.06	
05 05 19 00-0102 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	10.75	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.03	
For >100, Deduct	-2.07	
05 05 19 00-0103 EA 3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.06	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.17	
For >100, Deduct	-2.34	
05 05 19 00-0104 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.26	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.17	
For >100, Deduct	-2.35	
05 05 19 00-0105 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.45	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.18	
For >100, Deduct	-2.36	
05 05 19 00-0106 EA 1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	17.35	
For >10 To 50, Deduct	-0.82	
For >50 To 100, Deduct	-1.67	
For >100, Deduct	-3.33	

05 Metals**05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0107	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	17.61	
			<i>For >10 To 50, Deduct</i>	-0.82	
			<i>For >50 To 100, Deduct</i>	-1.67	
			<i>For >100, Deduct</i>	-3.34	
05 05 19 00-0108	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	17.83	
			<i>For >10 To 50, Deduct</i>	-0.82	
			<i>For >50 To 100, Deduct</i>	-1.68	
			<i>For >100, Deduct</i>	-3.35	
05 05 19 00-0109	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	18.09	
			<i>For >10 To 50, Deduct</i>	-0.82	
			<i>For >50 To 100, Deduct</i>	-1.68	
			<i>For >100, Deduct</i>	-3.37	
05 05 19 00-0110	EA		5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	21.74	
			<i>For >10 To 50, Deduct</i>	-1.01	
			<i>For >50 To 100, Deduct</i>	-2.07	
			<i>For >100, Deduct</i>	-4.13	
05 05 19 00-0111	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	22.12	
			<i>For >10 To 50, Deduct</i>	-1.01	
			<i>For >50 To 100, Deduct</i>	-2.07	
			<i>For >100, Deduct</i>	-4.15	
05 05 19 00-0112	EA		5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	22.41	
			<i>For >10 To 50, Deduct</i>	-1.01	
			<i>For >50 To 100, Deduct</i>	-2.08	
			<i>For >100, Deduct</i>	-4.16	
05 05 19 00-0113	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	23.23	
			<i>For >10 To 50, Deduct</i>	-1.01	
			<i>For >50 To 100, Deduct</i>	-2.10	
			<i>For >100, Deduct</i>	-4.21	
05 05 19 00-0114	EA		3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	26.56	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-2.48	
			<i>For >100, Deduct</i>	-4.95	
05 05 19 00-0115	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	27.27	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-2.49	
			<i>For >100, Deduct</i>	-4.99	
05 05 19 00-0116	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	27.92	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-2.51	
			<i>For >100, Deduct</i>	-5.02	
05 05 19 00-0117	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	28.94	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-2.53	
			<i>For >100, Deduct</i>	-5.07	
05 05 19 00-0118			304/18-8 Stainless Steel, Concrete Sleeve Anchors <small>(05 05 19 00-0096)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0119	EA		1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	11.29	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-1.01	
			<i>For >100, Deduct</i>	-2.02	
05 05 19 00-0120	EA		3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	14.50	
			<i>For >10 To 50, Deduct</i>	-0.58	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100, Deduct</i>	-2.46	
05 05 19 00-0121	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	15.66	
			<i>For >10 To 50, Deduct</i>	-0.58	
			<i>For >50 To 100, Deduct</i>	-1.26	
			<i>For >100, Deduct</i>	-2.52	
05 05 19 00-0122	EA		1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	21.42	
			<i>For >10 To 50, Deduct</i>	-0.82	
			<i>For >50 To 100, Deduct</i>	-1.77	
			<i>For >100, Deduct</i>	-3.53	
05 05 19 00-0123	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	23.52	
			<i>For >10 To 50, Deduct</i>	-0.82	
			<i>For >50 To 100, Deduct</i>	-1.82	
			<i>For >100, Deduct</i>	-3.64	
05 05 19 00-0124	EA		5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	31.72	
			<i>For >10 To 50, Deduct</i>	-1.01	
			<i>For >50 To 100, Deduct</i>	-2.31	
			<i>For >100, Deduct</i>	-4.63	
05 05 19 00-0125			Concrete Strike Anchors <small>(05 05 19 00-0002)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0126	EA		1/4" Diameter x 1-3/4" Long Concrete Strike Anchor	10.69	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-1.00	
			<i>For >100, Deduct</i>	-1.99	
05 05 19 00-0127	EA		1/4" Diameter x 2-3/8" Long Concrete Strike Anchor	10.90	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-1.00	
			<i>For >100, Deduct</i>	-2.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0128 EA 5/16" Diameter x 2-3/4" Long Concrete Strike Anchor	11.36	
<i>For >10 To 50, Deduct</i>	-0.51	
<i>For >50 To 100, Deduct</i>	-1.05	
<i>For >100, Deduct</i>	-2.10	
05 05 19 00-0129 EA 5/16" Diameter x 4" Long Concrete Strike Anchor	12.20	
<i>For >10 To 50, Deduct</i>	-0.51	
<i>For >50 To 100, Deduct</i>	-1.07	
<i>For >100, Deduct</i>	-2.14	
05 05 19 00-0130 EA 3/8" Diameter x 2-3/8" Long Concrete Strike Anchor	12.97	
<i>For >10 To 50, Deduct</i>	-0.58	
<i>For >50 To 100, Deduct</i>	-1.19	
<i>For >100, Deduct</i>	-2.38	
05 05 19 00-0131 EA 3/8" Diameter x 3-1/2" Long Concrete Strike Anchor	13.59	
<i>For >10 To 50, Deduct</i>	-0.58	
<i>For >50 To 100, Deduct</i>	-1.21	
<i>For >100, Deduct</i>	-2.41	
05 05 19 00-0132 EA 3/8" Diameter x 5" Long Concrete Strike Anchor	14.07	
<i>For >10 To 50, Deduct</i>	-0.58	
<i>For >50 To 100, Deduct</i>	-1.22	
<i>For >100, Deduct</i>	-2.44	
05 05 19 00-0133 EA 1/2" Diameter x 2-3/4" Long Concrete Strike Anchor	18.90	
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-1.70	
<i>For >100, Deduct</i>	-3.41	
05 05 19 00-0134 EA 1/2" Diameter x 3-1/2" Long Concrete Strike Anchor	19.27	
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-1.71	
<i>For >100, Deduct</i>	-3.43	
05 05 19 00-0135 EA 1/2" Diameter x 4-3/4" Long Concrete Strike Anchor	20.37	
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-1.74	
<i>For >100, Deduct</i>	-3.48	
05 05 19 00-0136 EA 1/2" Diameter x 6" Long Concrete Strike Anchor	21.78	
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-1.78	
<i>For >100, Deduct</i>	-3.55	
05 05 19 00-0137 EA 5/8" Diameter x 4" Long Concrete Strike Anchor	25.02	
<i>For >10 To 50, Deduct</i>	-1.01	
<i>For >50 To 100, Deduct</i>	-2.15	
<i>For >100, Deduct</i>	-4.29	
05 05 19 00-0138 EA 5/8" Diameter x 4-3/4" Long Concrete Strike Anchor	26.33	
<i>For >10 To 50, Deduct</i>	-1.01	
<i>For >50 To 100, Deduct</i>	-2.18	
<i>For >100, Deduct</i>	-4.36	
05 05 19 00-0139 EA 5/8" Diameter x 6" Long Concrete Strike Anchor	27.48	
<i>For >10 To 50, Deduct</i>	-1.01	
<i>For >50 To 100, Deduct</i>	-2.21	
<i>For >100, Deduct</i>	-4.42	
05 05 19 00-0140 EA 3/4" Diameter x 5" Long Concrete Strike Anchor	32.01	
<i>For >10 To 50, Deduct</i>	-1.21	
<i>For >50 To 100, Deduct</i>	-2.61	
<i>For >100, Deduct</i>	-5.22	
05 05 19 00-0141 EA 3/4" Diameter x 6" Long Concrete Strike Anchor	33.24	
<i>For >10 To 50, Deduct</i>	-1.21	
<i>For >50 To 100, Deduct</i>	-2.64	
<i>For >100, Deduct</i>	-5.28	
05 05 19 00-0142 Multi-Set Drop-In Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0143 Zinc Plated Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0144 EA 1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	14.05	
<i>For >10 To 50, Deduct</i>	-0.68	
<i>For >50 To 100, Deduct</i>	-1.37	
<i>For >100, Deduct</i>	-2.73	
05 05 19 00-0145 EA 3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	17.17	
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-1.67	
<i>For >100, Deduct</i>	-3.33	
05 05 19 00-0146 EA 1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	20.90	
<i>For >10 To 50, Deduct</i>	-0.97	
<i>For >50 To 100, Deduct</i>	-1.98	
<i>For >100, Deduct</i>	-3.96	
05 05 19 00-0147 EA 5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	23.65	
<i>For >10 To 50, Deduct</i>	-1.07	
<i>For >50 To 100, Deduct</i>	-2.19	
<i>For >100, Deduct</i>	-4.39	
05 05 19 00-0148 EA 3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	28.25	
<i>For >10 To 50, Deduct</i>	-1.22	
<i>For >50 To 100, Deduct</i>	-2.53	
<i>For >100, Deduct</i>	-5.06	
05 05 19 00-0149 304/18-8 Stainless Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		

05 Metals**05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0150 EA 1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	16.49	
For >10 To 50, Deduct	-0.68	
For >50 To 100, Deduct	-1.43	
For >100, Deduct	-2.85	
05 05 19 00-0151 EA 3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	21.78	
For >10 To 50, Deduct	-0.82	
For >50 To 100, Deduct	-1.78	
For >100, Deduct	-3.56	
05 05 19 00-0152 EA 1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	26.96	
For >10 To 50, Deduct	-0.97	
For >50 To 100, Deduct	-2.13	
For >100, Deduct	-4.26	
05 05 19 00-0153 EA 5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	33.41	
For >10 To 50, Deduct	-1.07	
For >50 To 100, Deduct	-2.44	
For >100, Deduct	-4.87	
05 05 19 00-0154 EA 3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	45.02	
For >10 To 50, Deduct	-1.22	
For >50 To 100, Deduct	-2.95	
For >100, Deduct	-5.90	
05 05 19 00-0155 Single Bolt Expansion Anchors (05 05 19 00-0002)		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0156 EA 1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	10.29	
For >10 To 50, Deduct	-0.49	
For >50 To 100, Deduct	-0.99	
For >100, Deduct	-1.97	
05 05 19 00-0157 EA 5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	10.97	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.04	
For >100, Deduct	-2.08	
05 05 19 00-0158 EA 3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	12.41	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.18	
For >100, Deduct	-2.35	
05 05 19 00-0159 EA 1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	18.09	
For >10 To 50, Deduct	-0.82	
For >50 To 100, Deduct	-1.68	
For >100, Deduct	-3.37	
05 05 19 00-0160 EA 5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	24.86	
For >10 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.14	
For >100, Deduct	-4.29	
05 05 19 00-0161 EA 3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	29.97	
For >10 To 50, Deduct	-1.21	
For >50 To 100, Deduct	-2.56	
For >100, Deduct	-5.12	
05 05 19 00-0162 Concrete Lag Shield Anchors (05 05 19 00-0002)		
Note: Excludes lag bolt and washer.		
05 05 19 00-0163 EA 1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	10.48	
For >10 To 50, Deduct	-0.49	
For >50 To 100, Deduct	-0.99	
For >100, Deduct	-1.98	
05 05 19 00-0164 EA 5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	12.47	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.18	
For >100, Deduct	-2.36	
05 05 19 00-0165 EA 3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	13.08	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.19	
For >100, Deduct	-2.39	
05 05 19 00-0166 EA 1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	18.43	
For >10 To 50, Deduct	-0.82	
For >50 To 100, Deduct	-1.69	
For >100, Deduct	-3.38	
05 05 19 00-0167 EA 5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	24.08	
For >10 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.12	
For >100, Deduct	-4.25	
05 05 19 00-0168 EA 3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	27.14	
For >10 To 50, Deduct	-1.21	
For >50 To 100, Deduct	-2.49	
For >100, Deduct	-4.98	
05 05 19 00-0169 Chemical And Adhesive Anchors (05 05 19 00-0001)		
05 05 19 00-0170 Chemically Adhered Anchor Rods (05 05 19 00-0169)		
Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0171 EA 1/4" x 1-9/16" Long Chemically Adhered Anchor Rod	13.00	
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.13	
<i>For >100, Deduct</i>	-2.25	
05 05 19 00-0172 EA 5/16" x 2-3/8" Long Chemically Adhered Anchor Rod	15.03	
<i>For >10 To 50, Deduct</i>	-0.58	
<i>For >50 To 100, Deduct</i>	-1.25	
<i>For >100, Deduct</i>	-2.50	
05 05 19 00-0173 EA 3/8" x 2-3/4" Long Chemically Adhered Anchor Rod	18.67	
<i>For >10 To 50, Deduct</i>	-0.73	
<i>For >50 To 100, Deduct</i>	-1.56	
<i>For >100, Deduct</i>	-3.12	
05 05 19 00-0174 EA 1/2" x 3-11/16" Long Chemically Adhered Anchor Rod	21.82	
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-1.78	
<i>For >100, Deduct</i>	-3.55	
05 05 19 00-0175 EA 1/2" x 5-1/2" Long Chemically Adhered Anchor Rod	23.05	
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-1.81	
<i>For >100, Deduct</i>	-3.62	
05 05 19 00-0176 EA 5/8" x 7" Long Chemically Adhered Anchor Rod.....	28.53	
<i>For >10 To 50, Deduct</i>	-1.01	
<i>For >50 To 100, Deduct</i>	-2.24	
<i>For >100, Deduct</i>	-4.47	
05 05 19 00-0177 EA 3/4" x 9-1/2" Long Chemically Adhered Anchor Rod	36.91	
<i>For >10 To 50, Deduct</i>	-1.21	
<i>For >50 To 100, Deduct</i>	-2.73	
<i>For >100, Deduct</i>	-5.47	
05 05 19 00-0178 EA 7/8" x 10" Long Chemically Adhered Anchor Rod.....	43.58	
<i>For >10 To 50, Deduct</i>	-1.31	
<i>For >50 To 100, Deduct</i>	-3.05	
<i>For >100, Deduct</i>	-6.10	
05 05 19 00-0179 EA 1" x 11-3/4" Long Chemically Adhered Anchor Rod	59.43	
<i>For >10 To 50, Deduct</i>	-1.70	
<i>For >50 To 100, Deduct</i>	-4.03	
<i>For >100, Deduct</i>	-8.06	
05 05 19 00-0180 EA 1-1/4" x 14" Long Chemically Adhered Anchor Rod	84.91	
<i>For >10 To 50, Deduct</i>	-2.14	
<i>For >50 To 100, Deduct</i>	-5.33	
<i>For >100, Deduct</i>	-10.66	
05 05 19 00-0181 Chemical Adhesives For Bolts, Dowels Or Threaded Rod <small>(05 05 19 00-0169)</small>		
Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored. Includes drilling. Excludes bolt, dowel or rod.		
05 05 19 00-0182 EA 5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	12.02	
<i>For >10 To 50, Deduct</i>	-0.58	
<i>For >50 To 100, Deduct</i>	-1.18	
<i>For >100, Deduct</i>	-2.35	
05 05 19 00-0183 EA 3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	15.06	
<i>For >10 To 50, Deduct</i>	-0.73	
<i>For >50 To 100, Deduct</i>	-1.47	
<i>For >100, Deduct</i>	-2.94	
05 05 19 00-0184 EA 1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	17.09	
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-1.66	
<i>For >100, Deduct</i>	-3.32	
05 05 19 00-0185 EA 5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	21.93	
<i>For >10 To 50, Deduct</i>	-1.01	
<i>For >50 To 100, Deduct</i>	-2.07	
<i>For >100, Deduct</i>	-4.14	
05 05 19 00-0186 EA 3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	27.01	
<i>For >10 To 50, Deduct</i>	-1.21	
<i>For >50 To 100, Deduct</i>	-2.49	
<i>For >100, Deduct</i>	-4.97	
05 05 19 00-0187 EA 7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	29.96	
<i>For >10 To 50, Deduct</i>	-1.31	
<i>For >50 To 100, Deduct</i>	-2.71	
<i>For >100, Deduct</i>	-5.42	
05 05 19 00-0188 EA 1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	39.64	
<i>For >10 To 50, Deduct</i>	-1.70	
<i>For >50 To 100, Deduct</i>	-3.53	
<i>For >100, Deduct</i>	-7.07	
05 05 19 00-0189 EA 1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	45.38	
<i>For >10 To 50, Deduct</i>	-1.92	
<i>For >50 To 100, Deduct</i>	-4.01	
<i>For >100, Deduct</i>	-8.02	
05 05 19 00-0190 EA 1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	51.91	
<i>For >10 To 50, Deduct</i>	-2.14	
<i>For >50 To 100, Deduct</i>	-4.50	
<i>For >100, Deduct</i>	-9.01	
05 05 19 00-0191 EA 1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	56.16	
<i>For >10 To 50, Deduct</i>	-2.24	
<i>For >50 To 100, Deduct</i>	-4.76	
<i>For >100, Deduct</i>	-9.51	

05 Metals**05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0192	EA		1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	61.90	
			<i>For >10 To 50, Deduct</i>	-2.33	
			<i>For >50 To 100, Deduct</i>	-5.04	
			<i>For >100, Deduct</i>	-10.09	
05 05 19 00-0193	EA		1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	73.43	
			<i>For >10 To 50, Deduct</i>	-2.53	
			<i>For >50 To 100, Deduct</i>	-5.62	
			<i>For >100, Deduct</i>	-11.25	
05 05 19 00-0194	EA		2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	98.28	
			<i>For >10 To 50, Deduct</i>	-2.62	
			<i>For >50 To 100, Deduct</i>	-6.39	
			<i>For >100, Deduct</i>	-12.78	
05 05 19 00-0195			Grout Concrete Anchor Bolt Or Threaded Rod (05 05 19 00-0169)		
05 05 19 00-0196	EA		Grout Concrete Anchor Bolt or Threaded Rod.....	3.75	
			<i>For >10 To 50, Deduct</i>	-0.18	
			<i>For >50 To 100, Deduct</i>	-0.37	
			<i>For >100, Deduct</i>	-0.73	
05 05 19 00-0197			Other Concrete And Masonry Anchors (05 05 19 00-0001)		
05 05 19 00-0198			Tapcon Masonry Screws (05 05 19 00-0197)		
			Note: Includes drilling, Countersunk or hex head.		
05 05 19 00-0199	EA		3/16" x 1-1/4" Tapcon Masonry Screw.....	9.95	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-0.98	
			<i>For >100, Deduct</i>	-1.96	
05 05 19 00-0200	EA		3/16" x 2-1/4" Tapcon Masonry Screw.....	10.01	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-0.98	
			<i>For >100, Deduct</i>	-1.96	
05 05 19 00-0201	EA		3/16" x 3-1/4" Tapcon Masonry Screw.....	10.14	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-0.98	
			<i>For >100, Deduct</i>	-1.97	
05 05 19 00-0202	EA		1/4" x 1-1/4" Tapcon Masonry Screw.....	10.02	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-0.98	
			<i>For >100, Deduct</i>	-1.96	
05 05 19 00-0203	EA		1/4" x 2-1/4" Tapcon Masonry Screw.....	10.09	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-0.98	
			<i>For >100, Deduct</i>	-1.96	
05 05 19 00-0204	EA		1/4" x 3-1/4" Tapcon Masonry Screw.....	10.25	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-0.99	
			<i>For >100, Deduct</i>	-1.97	
05 05 19 00-0205			Large Diameter, Self-Threaded Concrete Fasteners (05 05 19 00-0197)		
			Note: Includes drilling, Zinc plated.		
05 05 19 00-0206	EA		3/8" x 1-3/4", Large Diameter, Self-Threaded Concrete Fastener.....	10.46	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-0.99	
			<i>For >100, Deduct</i>	-1.98	
05 05 19 00-0207	EA		3/8" x 2-1/2", Large Diameter, Self-Threaded Concrete Fastener.....	10.73	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-1.00	
			<i>For >100, Deduct</i>	-1.99	
05 05 19 00-0208	EA		3/8" x 3", Large Diameter, Self-Threaded Concrete Fastener.....	10.80	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-1.00	
			<i>For >100, Deduct</i>	-2.00	
05 05 19 00-0209	EA		3/8" x 4", Large Diameter, Self-Threaded Concrete Fastener.....	10.93	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-1.00	
			<i>For >100, Deduct</i>	-2.00	
05 05 19 00-0210	EA		3/8" x 5", Large Diameter, Self-Threaded Concrete Fastener.....	11.04	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-1.01	
			<i>For >100, Deduct</i>	-2.01	
05 05 19 00-0211	EA		1/2" x 3", Large Diameter, Self-Threaded Concrete Fastener.....	11.27	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-1.01	
			<i>For >100, Deduct</i>	-2.02	
05 05 19 00-0212	EA		1/2" x 4", Large Diameter, Self-Threaded Concrete Fastener.....	11.56	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-1.02	
			<i>For >100, Deduct</i>	-2.04	
05 05 19 00-0213	EA		1/2" x 5", Large Diameter, Self-Threaded Concrete Fastener.....	11.82	
			<i>For >10 To 50, Deduct</i>	-0.49	
			<i>For >50 To 100, Deduct</i>	-1.02	
			<i>For >100, Deduct</i>	-2.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0214 EA 1/2" x 6", Large Diameter, Self-Threading Concrete Fastener.....	12.56	
<i>For >10 To 50, Deduct</i>	-0.49	
<i>For >50 To 100, Deduct</i>	-1.04	
<i>For >100, Deduct</i>	-2.09	
05 05 19 00-0215 EA 5/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	12.64	
<i>For >10 To 50, Deduct</i>	-0.49	
<i>For >50 To 100, Deduct</i>	-1.05	
<i>For >100, Deduct</i>	-2.09	
05 05 19 00-0216 EA 5/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	13.09	
<i>For >10 To 50, Deduct</i>	-0.49	
<i>For >50 To 100, Deduct</i>	-1.06	
<i>For >100, Deduct</i>	-2.11	
05 05 19 00-0217 EA 5/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	13.56	
<i>For >10 To 50, Deduct</i>	-0.49	
<i>For >50 To 100, Deduct</i>	-1.07	
<i>For >100, Deduct</i>	-2.14	
05 05 19 00-0218 EA 5/8" x 6", Large Diameter, Self-Threading Concrete Fastener.....	13.85	
<i>For >10 To 50, Deduct</i>	-0.49	
<i>For >50 To 100, Deduct</i>	-1.08	
<i>For >100, Deduct</i>	-2.15	
05 05 19 00-0219 EA 3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener.....	13.72	
<i>For >10 To 50, Deduct</i>	-0.49	
<i>For >50 To 100, Deduct</i>	-1.07	
<i>For >100, Deduct</i>	-2.14	
05 05 19 00-0220 EA 3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener.....	14.15	
<i>For >10 To 50, Deduct</i>	-0.49	
<i>For >50 To 100, Deduct</i>	-1.08	
<i>For >100, Deduct</i>	-2.17	
05 05 19 00-0221 EA 3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener.....	15.15	
<i>For >10 To 50, Deduct</i>	-0.49	
<i>For >50 To 100, Deduct</i>	-1.11	
<i>For >100, Deduct</i>	-2.22	
05 05 19 00-0222 Pin Bolt Drives <small>(05 05 19 00-0197)</small>		
Note: Includes drilling. Zinc plated.		
05 05 19 00-0223 EA 1/4" x 1" Pin Bolt Drive.....	6.18	
<i>For >10 To 50, Deduct</i>	-0.29	
<i>For >50 To 100, Deduct</i>	-0.59	
<i>For >100, Deduct</i>	-1.18	
05 05 19 00-0224 EA 1/4" x 1-1/4" Pin Bolt Drive.....	6.18	
<i>For >10 To 50, Deduct</i>	-0.29	
<i>For >50 To 100, Deduct</i>	-0.59	
<i>For >100, Deduct</i>	-1.18	
05 05 19 00-0225 EA 1/4" x 1-1/2" Pin Bolt Drive.....	6.23	
<i>For >10 To 50, Deduct</i>	-0.29	
<i>For >50 To 100, Deduct</i>	-0.59	
<i>For >100, Deduct</i>	-1.19	
05 05 19 00-0226 EA 1/4" x 2" Pin Bolt Drive.....	6.24	
<i>For >10 To 50, Deduct</i>	-0.29	
<i>For >50 To 100, Deduct</i>	-0.59	
<i>For >100, Deduct</i>	-1.19	
05 05 19 00-0227 Powder Actuated, Shot-In Place Anchors <small>(05 05 19 00-0197)</small>		
05 05 19 00-0228 EA 0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor.....	1.54	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.14	
<i>For >100, Deduct</i>	-0.28	
05 05 19 00-0229 EA 0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor.....	1.61	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.14	
<i>For >100, Deduct</i>	-0.28	
05 05 19 00-0230 EA 0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor.....	1.75	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100, Deduct</i>	-0.31	
05 05 19 00-0231 EA 0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor.....	1.93	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100, Deduct</i>	-0.33	
05 05 19 00-0232 EA 0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor.....	2.03	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100, Deduct</i>	-0.34	
05 05 19 00-0233 Powder Actuated, Shot-In Place Anchors With Exposed Thread <small>(05 05 19 00-0197)</small>		
05 05 19 00-0234 EA 0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor.....	1.79	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100, Deduct</i>	-0.29	

05 Metals**05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0235	EA		0.205" Diameter x 1-1/6" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor.....	2.41	
			<i>For >10 To 50, Deduct</i>	-0.08	
			<i>For >50 To 100, Deduct</i>	-0.18	
			<i>For >100, Deduct</i>	-0.37	
05 05 23 Metal Fastenings <small>(05 05)</small>					
05 05 23 00-0001 Drilling In Steel Plates <small>(05 05 23)</small>					
05 05 23 00-0002	EA		>1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate.....	27.41	
			<i>For Aluminum, Deduct</i>	-2.74	
			<i>For Stainless Steel, Add</i>	3.43	
05 05 23 00-0003	EA		>4" To 10" Diameter Drill Through Up To 1/4" Steel Plate.....	36.70	
			<i>For Aluminum, Deduct</i>	-3.67	
			<i>For Stainless Steel, Add</i>	4.59	
05 05 23 00-0004	EA		>1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	36.70	
			<i>For Aluminum, Deduct</i>	-3.67	
			<i>For Stainless Steel, Add</i>	4.59	
05 05 23 00-0005	EA		Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	24.47	
			<i>For Aluminum, Deduct</i>	-2.45	
			<i>For Stainless Steel, Add</i>	3.06	
05 05 23 00-0006	EA		>1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate.....	32.30	
			<i>For Aluminum, Deduct</i>	-3.23	
			<i>For Stainless Steel, Add</i>	4.04	
05 05 23 00-0007	EA		>7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	39.15	
05 05 23 00-0008 Hex Bolts <small>(05 05 23)</small>					
Note: For owner furnished materials or where requested by the owner. Excludes drilling through steel, concrete, brick or block. See CSI section 02 41 19 13-0276 for drilling into concrete, 02 41 19 13-0286 for drilling into brick or block, 02 41 19 13-0296 for drilling into wood or plastic, 05 05 23 00-0001 for drilling through steel.					
05 05 23 00-0009 A307B Heavy Hex Bolts <small>(05 05 23 00-0009)</small>					
Note: Includes A307B heavy hex nut and two structural washers.					
05 05 23 00-0010 Plain Finish A307B Heavy Hex Bolts <small>(05 05 23 00-0009)</small>					
05 05 23 00-0011	EA		1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt.....	11.56	1.13
			<i>For >10 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.00	
			<i>For >100, Deduct</i>	-1.99	
05 05 23 00-0012	EA		1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt.....	12.79	1.13
			<i>For >10 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.03	
			<i>For >100, Deduct</i>	-2.05	
05 05 23 00-0013	EA		5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt.....	12.83	1.13
			<i>For >10 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.03	
			<i>For >100, Deduct</i>	-2.05	
05 05 23 00-0014	EA		5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	15.30	1.29
			<i>For >10 To 50, Deduct</i>	-0.54	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.38	
05 05 23 00-0015	EA		3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt.....	14.90	1.13
			<i>For >10 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.08	
			<i>For >100, Deduct</i>	-2.16	
05 05 23 00-0016	EA		3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	17.88	1.29
			<i>For >10 To 50, Deduct</i>	-0.54	
			<i>For >50 To 100, Deduct</i>	-1.25	
			<i>For >100, Deduct</i>	-2.51	
05 05 23 00-0017	EA		3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt.....	22.71	1.35
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.41	
			<i>For >100, Deduct</i>	-2.82	
05 05 23 00-0018	EA		3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt.....	24.40	1.42
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.50	
			<i>For >100, Deduct</i>	-2.99	
05 05 23 00-0019	EA		7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt.....	17.90	1.23
			<i>For >10 To 50, Deduct</i>	-0.51	
			<i>For >50 To 100, Deduct</i>	-1.21	
			<i>For >100, Deduct</i>	-2.43	
05 05 23 00-0020	EA		7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	21.62	1.35
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.38	
			<i>For >100, Deduct</i>	-2.76	
05 05 23 00-0021	EA		1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	25.51	1.42
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.52	
			<i>For >100, Deduct</i>	-3.05	
05 05 23 00-0022	EA		1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt.....	36.62	1.49
			<i>For >10 To 50, Deduct</i>	-0.62	
			<i>For >50 To 100, Deduct</i>	-1.85	
			<i>For >100, Deduct</i>	-3.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0023 EA 1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	42.89	1.68
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-2.12	
<i>For >100, Deduct</i>	-4.25	
05 05 23 00-0024 EA 1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt.....	48.30	1.80
<i>For >10 To 50, Deduct</i>	-0.75	
<i>For >50 To 100, Deduct</i>	-2.33	
<i>For >100, Deduct</i>	-4.67	
05 05 23 00-0025 Galvanized A307B Heavy Hex Bolts <small>(05 05 23 00-0009)</small>		
05 05 23 00-0026 EA 1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt.....	12.17	1.13
<i>For >10 To 50, Deduct</i>	-0.47	
<i>For >50 To 100, Deduct</i>	-1.01	
<i>For >100, Deduct</i>	-2.02	
05 05 23 00-0027 EA 1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt.....	13.20	1.13
<i>For >10 To 50, Deduct</i>	-0.47	
<i>For >50 To 100, Deduct</i>	-1.04	
<i>For >100, Deduct</i>	-2.07	
05 05 23 00-0028 EA 5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	14.32	1.13
<i>For >10 To 50, Deduct</i>	-0.47	
<i>For >50 To 100, Deduct</i>	-1.06	
<i>For >100, Deduct</i>	-2.13	
05 05 23 00-0029 EA 5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	16.80	1.29
<i>For >10 To 50, Deduct</i>	-0.54	
<i>For >50 To 100, Deduct</i>	-1.23	
<i>For >100, Deduct</i>	-2.45	
05 05 23 00-0030 EA 3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	16.60	1.13
<i>For >10 To 50, Deduct</i>	-0.47	
<i>For >50 To 100, Deduct</i>	-1.12	
<i>For >100, Deduct</i>	-2.24	
05 05 23 00-0031 EA 3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	21.01	1.29
<i>For >10 To 50, Deduct</i>	-0.54	
<i>For >50 To 100, Deduct</i>	-1.33	
<i>For >100, Deduct</i>	-2.66	
05 05 23 00-0032 EA 3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	28.12	1.35
<i>For >10 To 50, Deduct</i>	-0.56	
<i>For >50 To 100, Deduct</i>	-1.55	
<i>For >100, Deduct</i>	-3.09	
05 05 23 00-0033 EA 3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt.....	33.16	1.42
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.72	
<i>For >100, Deduct</i>	-3.43	
05 05 23 00-0034 EA 7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	22.34	1.23
<i>For >10 To 50, Deduct</i>	-0.51	
<i>For >50 To 100, Deduct</i>	-1.33	
<i>For >100, Deduct</i>	-2.65	
05 05 23 00-0035 EA 7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	26.63	1.35
<i>For >10 To 50, Deduct</i>	-0.56	
<i>For >50 To 100, Deduct</i>	-1.51	
<i>For >100, Deduct</i>	-3.01	
05 05 23 00-0036 EA 1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	31.97	1.42
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.69	
<i>For >100, Deduct</i>	-3.37	
05 05 23 00-0037 EA 1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	48.34	1.49
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-2.14	
<i>For >100, Deduct</i>	-4.28	
05 05 23 00-0038 EA 1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	48.13	1.68
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-2.26	
<i>For >100, Deduct</i>	-4.51	
05 05 23 00-0039 EA 1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	60.44	1.80
<i>For >10 To 50, Deduct</i>	-0.75	
<i>For >50 To 100, Deduct</i>	-2.64	
<i>For >100, Deduct</i>	-5.28	
05 05 23 00-0040 A325 High Strength Structural Bolts <small>(05 05 23 00-0008)</small>		
Note: Includes A325 heavy hex nut and two structural washers.		
05 05 23 00-0041 Plain Finish A325 High Strength Structural Bolts <small>(05 05 23 00-0040)</small>		
Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0042 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt.....	11.27	1.13
<i>For >10 To 50, Deduct</i>	-0.47	
<i>For >50 To 100, Deduct</i>	-0.99	
<i>For >100, Deduct</i>	-1.98	
05 05 23 00-0043 EA 1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	11.54	1.13
<i>For >10 To 50, Deduct</i>	-0.47	
<i>For >50 To 100, Deduct</i>	-1.00	
<i>For >100, Deduct</i>	-1.99	
05 05 23 00-0044 EA 5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	12.42	1.13
<i>For >10 To 50, Deduct</i>	-0.47	
<i>For >50 To 100, Deduct</i>	-1.02	
<i>For >100, Deduct</i>	-2.03	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0045	EA		5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	15.32	1.29
			<i>For >10 To 50, Deduct</i>	-0.54	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.38	
05 05 23 00-0046	EA		5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	17.88	1.35
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.29	
			<i>For >100, Deduct</i>	-2.58	
05 05 23 00-0047	EA		3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	13.63	1.13
			<i>For >10 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.05	
			<i>For >100, Deduct</i>	-2.09	
05 05 23 00-0048	EA		3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	16.62	1.29
			<i>For >10 To 50, Deduct</i>	-0.54	
			<i>For >50 To 100, Deduct</i>	-1.22	
			<i>For >100, Deduct</i>	-2.44	
05 05 23 00-0049	EA		3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	19.02	1.35
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.32	
			<i>For >100, Deduct</i>	-2.64	
05 05 23 00-0050	EA		3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	23.63	1.42
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.48	
			<i>For >100, Deduct</i>	-2.95	
05 05 23 00-0051	EA		7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	15.90	1.23
			<i>For >10 To 50, Deduct</i>	-0.51	
			<i>For >50 To 100, Deduct</i>	-1.16	
			<i>For >100, Deduct</i>	-2.33	
05 05 23 00-0052	EA		7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	19.50	1.35
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.33	
			<i>For >100, Deduct</i>	-2.66	
05 05 23 00-0053	EA		7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	22.37	1.42
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.45	
			<i>For >100, Deduct</i>	-2.89	
05 05 23 00-0054	EA		7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	24.30	1.49
			<i>For >10 To 50, Deduct</i>	-0.62	
			<i>For >50 To 100, Deduct</i>	-1.54	
			<i>For >100, Deduct</i>	-3.08	
05 05 23 00-0055	EA		1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	17.66	1.28
			<i>For >10 To 50, Deduct</i>	-0.53	
			<i>For >50 To 100, Deduct</i>	-1.24	
			<i>For >100, Deduct</i>	-2.48	
05 05 23 00-0056	EA		1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	21.34	1.42
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.42	
			<i>For >100, Deduct</i>	-2.84	
05 05 23 00-0057	EA		1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	24.88	1.49
			<i>For >10 To 50, Deduct</i>	-0.62	
			<i>For >50 To 100, Deduct</i>	-1.55	
			<i>For >100, Deduct</i>	-3.11	
05 05 23 00-0058	EA		1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	32.16	1.59
			<i>For >10 To 50, Deduct</i>	-0.66	
			<i>For >50 To 100, Deduct</i>	-1.80	
			<i>For >100, Deduct</i>	-3.59	
05 05 23 00-0059	EA		1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	30.63	1.59
			<i>For >10 To 50, Deduct</i>	-0.66	
			<i>For >50 To 100, Deduct</i>	-1.76	
			<i>For >100, Deduct</i>	-3.51	
05 05 23 00-0060	EA		1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	34.84	1.68
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.92	
			<i>For >100, Deduct</i>	-3.85	
05 05 23 00-0061	EA		1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	41.05	1.80
			<i>For >10 To 50, Deduct</i>	-0.75	
			<i>For >50 To 100, Deduct</i>	-2.15	
			<i>For >100, Deduct</i>	-4.31	
05 05 23 00-0062	EA		1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	48.38	1.92
			<i>For >10 To 50, Deduct</i>	-0.80	
			<i>For >50 To 100, Deduct</i>	-2.41	
			<i>For >100, Deduct</i>	-4.82	
05 05 23 00-0063			Galvanized A325 High Strength Structural Bolts <small>(05 05 23 00-0040)</small>		
			Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0064	EA		1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt.....	11.82	1.13
			<i>For >10 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.00	
			<i>For >100, Deduct</i>	-2.00	
05 05 23 00-0065	EA		1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	12.01	1.13
			<i>For >10 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.01	
			<i>For >100, Deduct</i>	-2.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0066 EA 5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	13.57	1.13
<i>For >10 To 50, Deduct</i>	-0.47	
<i>For >50 To 100, Deduct</i>	-1.05	
<i>For >100, Deduct</i>	-2.09	
05 05 23 00-0067 EA 5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	16.14	1.29
<i>For >10 To 50, Deduct</i>	-0.54	
<i>For >50 To 100, Deduct</i>	-1.21	
<i>For >100, Deduct</i>	-2.42	
05 05 23 00-0068 EA 5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	17.10	1.35
<i>For >10 To 50, Deduct</i>	-0.56	
<i>For >50 To 100, Deduct</i>	-1.27	
<i>For >100, Deduct</i>	-2.54	
05 05 23 00-0069 EA 3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	14.16	1.13
<i>For >10 To 50, Deduct</i>	-0.47	
<i>For >50 To 100, Deduct</i>	-1.06	
<i>For >100, Deduct</i>	-2.12	
05 05 23 00-0070 EA 3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	17.28	1.29
<i>For >10 To 50, Deduct</i>	-0.54	
<i>For >50 To 100, Deduct</i>	-1.24	
<i>For >100, Deduct</i>	-2.48	
05 05 23 00-0071 EA 3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	20.06	1.35
<i>For >10 To 50, Deduct</i>	-0.56	
<i>For >50 To 100, Deduct</i>	-1.34	
<i>For >100, Deduct</i>	-2.69	
05 05 23 00-0072 EA 3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	26.09	1.42
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.54	
<i>For >100, Deduct</i>	-3.08	
05 05 23 00-0073 EA 7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	19.08	1.23
<i>For >10 To 50, Deduct</i>	-0.51	
<i>For >50 To 100, Deduct</i>	-1.24	
<i>For >100, Deduct</i>	-2.49	
05 05 23 00-0074 EA 7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	21.38	1.35
<i>For >10 To 50, Deduct</i>	-0.56	
<i>For >50 To 100, Deduct</i>	-1.38	
<i>For >100, Deduct</i>	-2.75	
05 05 23 00-0075 EA 7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	24.65	1.42
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.50	
<i>For >100, Deduct</i>	-3.01	
05 05 23 00-0076 EA 7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	31.12	1.49
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.71	
<i>For >100, Deduct</i>	-3.42	
05 05 23 00-0077 EA 1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	20.13	1.28
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.30	
<i>For >100, Deduct</i>	-2.60	
05 05 23 00-0078 EA 1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	27.00	1.42
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.56	
<i>For >100, Deduct</i>	-3.12	
05 05 23 00-0079 EA 1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	29.62	1.49
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.67	
<i>For >100, Deduct</i>	-3.35	
05 05 23 00-0080 EA 1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	38.00	1.59
<i>For >10 To 50, Deduct</i>	-0.66	
<i>For >50 To 100, Deduct</i>	-1.94	
<i>For >100, Deduct</i>	-3.88	
05 05 23 00-0081 EA 1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	37.76	1.59
<i>For >10 To 50, Deduct</i>	-0.66	
<i>For >50 To 100, Deduct</i>	-1.94	
<i>For >100, Deduct</i>	-3.87	
05 05 23 00-0082 EA 1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	40.28	1.68
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-2.06	
<i>For >100, Deduct</i>	-4.12	
05 05 23 00-0083 EA 1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	47.29	1.80
<i>For >10 To 50, Deduct</i>	-0.75	
<i>For >50 To 100, Deduct</i>	-2.31	
<i>For >100, Deduct</i>	-4.62	
05 05 23 00-0084 EA 1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	54.90	1.92
<i>For >10 To 50, Deduct</i>	-0.80	
<i>For >50 To 100, Deduct</i>	-2.57	
<i>For >100, Deduct</i>	-5.15	
05 05 23 00-0085 A490 High Strength Structural Bolts <small>(05 05 23 00-0085)</small>		
Note: Includes A490 heavy hex nut and two structural washers.		
05 05 23 00-0086 Plain Finish A490 High Strength Structural Bolts <small>(05 05 23 00-0085)</small>		
05 05 23 00-0087 EA 5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	12.85	1.13
<i>For >10 To 50, Deduct</i>	-0.47	
<i>For >50 To 100, Deduct</i>	-1.03	
<i>For >100, Deduct</i>	-2.06	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0088 EA 5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	18.29	1.29
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.26	
For >100, Deduct	-2.53	
05 05 23 00-0089 EA 5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	19.58	1.35
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.33	
For >100, Deduct	-2.67	
05 05 23 00-0090 EA 3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	14.53	1.13
For >10 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-1.07	
For >100, Deduct	-2.14	
05 05 23 00-0091 EA 3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	17.64	1.29
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.25	
For >100, Deduct	-2.49	
05 05 23 00-0092 EA 3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	20.67	1.35
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.36	
For >100, Deduct	-2.72	
05 05 23 00-0093 EA 3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	26.83	1.42
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.56	
For >100, Deduct	-3.11	
05 05 23 00-0094 EA 7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	16.94	1.23
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.19	
For >100, Deduct	-2.38	
05 05 23 00-0095 EA 7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	19.83	1.35
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.34	
For >100, Deduct	-2.67	
05 05 23 00-0096 EA 7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	29.05	1.42
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.61	
For >100, Deduct	-3.23	
05 05 23 00-0097 EA 1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	20.07	1.28
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.30	
For >100, Deduct	-2.60	
05 05 23 00-0098 EA 1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	24.05	1.42
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.49	
For >100, Deduct	-2.98	
05 05 23 00-0099 EA 1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	27.80	1.49
For >10 To 50, Deduct	-0.62	
For >50 To 100, Deduct	-1.63	
For >100, Deduct	-3.25	
05 05 23 00-0100 EA 1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt.....	34.94	1.59
For >10 To 50, Deduct	-0.66	
For >50 To 100, Deduct	-1.87	
For >100, Deduct	-3.73	
05 05 23 00-0101 EA 1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	45.13	1.68
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-2.18	
For >100, Deduct	-4.36	
05 05 23 00-0102 EA 1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	47.46	1.80
For >10 To 50, Deduct	-0.75	
For >50 To 100, Deduct	-2.31	
For >100, Deduct	-4.63	
05 05 23 00-0103 EA 1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	49.49	1.92
For >10 To 50, Deduct	-0.80	
For >50 To 100, Deduct	-2.44	
For >100, Deduct	-4.88	
05 05 23 00-0104 Hex Head Bolts (05 05 23 00-0008)		
05 05 23 00-0105 Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0104)		
05 05 23 00-0106 1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0105)		
05 05 23 00-0107 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.17	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-1.82	
05 05 23 00-0108 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.20	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-1.82	
05 05 23 00-0109 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.27	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-1.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0110 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.30	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0111 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.52	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0112 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.54	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0113 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.65	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0114 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.83	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0115 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.87	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0116 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.03	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0117 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.32	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0118 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.44	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0119 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.61	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0120 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.16	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0121 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.42	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0122 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.49	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0123 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0124 EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.24	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0125 EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.26	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0126 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.32	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0127 EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.37	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0128 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.59	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0129 EA 5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.70	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0130 EA 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.74	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0131 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.02	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.61	
For >500, Deduct	-1.93	
05 05 23 00-0132 EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.18	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.61	
For >500, Deduct	-1.93	
05 05 23 00-0133 EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.24	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.61	
For >500, Deduct	-1.93	
05 05 23 00-0134 EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.46	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.98	
05 05 23 00-0135 EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.52	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.98	
05 05 23 00-0136 EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.11	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.98	
05 05 23 00-0137 EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.60	
For >100 To 250, Deduct	-1.36	
For >250 To 500, Deduct	-1.70	
For >500, Deduct	-2.03	
05 05 23 00-0138 EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.86	
For >100 To 250, Deduct	-1.36	
For >250 To 500, Deduct	-1.70	
For >500, Deduct	-2.03	
05 05 23 00-0139 EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.09	
For >100 To 250, Deduct	-1.36	
For >250 To 500, Deduct	-1.70	
For >500, Deduct	-2.03	
05 05 23 00-0140 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0141 EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.31	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-1.82	
05 05 23 00-0142 EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.33	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-1.82	
05 05 23 00-0143 EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.42	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-1.82	
05 05 23 00-0144 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.49	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-1.82	
05 05 23 00-0145 EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.73	
For >100 To 250, Deduct	-1.25	
For >250 To 500, Deduct	-1.56	
For >500, Deduct	-1.88	
05 05 23 00-0146 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.87	
For >100 To 250, Deduct	-1.25	
For >250 To 500, Deduct	-1.56	
For >500, Deduct	-1.88	
05 05 23 00-0147 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.00	
For >100 To 250, Deduct	-1.25	
For >250 To 500, Deduct	-1.56	
For >500, Deduct	-1.88	
05 05 23 00-0148 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.31	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.61	
For >500, Deduct	-1.93	
05 05 23 00-0149 EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.49	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.61	
For >500, Deduct	-1.93	
05 05 23 00-0150 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.59	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.61	
For >500, Deduct	-1.93	
05 05 23 00-0151 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.94	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0152 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.04	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0153 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.11	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0154 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.35	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0155 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.46	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0156 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.62	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0157 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0158 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.51	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0159 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.62	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0160 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.64	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0161 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.96	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0162 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.13	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0163 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.27	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0164 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.81	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0165 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.91	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0166 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.12	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0167 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.61	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0168 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.72	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0169 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.97	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0170 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.25	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0171 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.48	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0172 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.93	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0173 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05)</small>		
<small>23 00-0105</small>		
05 05 23 00-0174 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.42	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.09	
05 05 23 00-0175 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.55	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.09	
05 05 23 00-0176 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.69	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.09	
05 05 23 00-0177 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.01	
For >100 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	
05 05 23 00-0178 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.15	
For >100 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	
05 05 23 00-0179 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.29	
For >100 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	
05 05 23 00-0180 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.65	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-0181 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.81	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-0182 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.09	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-0183 EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.30	
For >100 To 250, Deduct	-1.49	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-0184 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.33	
For >100 To 250, Deduct	-1.49	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-0185 EA 1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.57	
For >100 To 250, Deduct	-1.49	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-0186 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.95	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-0187 EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.10	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-0188 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.51	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-0189 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.88	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0190 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.03	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0191 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.61	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0192 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.77	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0193 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05)</small>		
<small>23 00-0105</small>		
05 05 23 00-0194 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.56	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0195 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.74	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0196 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.79	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0197 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.56	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0198 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.80	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0199 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.88	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0200 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.09	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0201 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.15	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0202 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.35	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0203 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.57	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0204 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.63	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0205 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.81	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0206 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.17	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0207 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.39	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0208 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.60	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0209 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.96	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0210 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.21	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0211 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.38	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0212 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.64	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0213 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0214 EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.82	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0215 EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.94	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0216	EA		5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.10	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0217	EA		5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.50	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0218	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.74	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0219	EA		5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.03	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0220	EA		5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.58	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0221	EA		5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.03	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0222	EA		5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.38	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0223	EA		5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.70	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0224	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.74	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0225	EA		5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.35	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0226	EA		5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.86	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0227	EA		5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.33	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0228	EA		5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.89	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0229	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.67	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0230	EA		5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.21	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0231	EA		5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.77	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0232	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.20	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0233			3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0234	EA		3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.23	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0235	EA		3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.48	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0236	EA		3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.70	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0237 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.17	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0238 EA 3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.52	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0239 EA 3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.83	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0240 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.34	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0241 EA 3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.77	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0242 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.11	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0243 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.98	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0244 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.26	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0245 EA 3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.80	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0246 EA 3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.00	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0247 EA 3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.25	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0248 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.83	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0249 EA 3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.77	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0250 EA 3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.35	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0251 EA 3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.12	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0252 EA 3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.87	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0253 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0254 EA 7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.40	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0255 EA 7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.61	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0256 EA 7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.71	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0257 EA 7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.17	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.22	
<i>For >500, Deduct</i>	-2.66	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0258	EA		7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.74	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0259	EA		7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.40	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0260	EA		7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.12	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0261	EA		7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.09	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0262	EA		7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.62	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0263	EA		7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.22	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0264	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.54	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0265	EA		7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.30	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0266	EA		7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.23	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0267	EA		7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.00	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0268	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.76	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0269	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.64	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0270	EA		7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.45	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0271	EA		7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.19	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0272	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.98	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0273	EA		1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>	12.33	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0275	EA		1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.73	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0276	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.78	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0277	EA		1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.88	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0278	EA		1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.88	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500, Deduct</i>	-2.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0279 EA 1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.08	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0280 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.05	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0281 EA 1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.05	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0282 EA 1" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.72	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0283 EA 1" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.20	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0284 EA 1" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.04	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0285 EA 1" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.05	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0286 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.88	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0287 EA 1" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.74	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0288 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.60	
<i>For >100 To 250, Deduct</i>	-1.91	
<i>For >250 To 500, Deduct</i>	-2.39	
<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0289 EA 1" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.58	
<i>For >100 To 250, Deduct</i>	-1.91	
<i>For >250 To 500, Deduct</i>	-2.39	
<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0290 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.44	
<i>For >100 To 250, Deduct</i>	-1.91	
<i>For >250 To 500, Deduct</i>	-2.39	
<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0291 EA 1" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.31	
<i>For >100 To 250, Deduct</i>	-1.91	
<i>For >250 To 500, Deduct</i>	-2.39	
<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0292 Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0293 1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0294 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.22	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0295 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.27	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0296 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.30	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0297 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.38	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0298 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.62	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0299 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.75	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0300 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.90	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	

05 Metals

05 05 Common Work Results For Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0301	EA		1/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.18	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0302	EA		1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.35	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0303	EA		1/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.48	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0304	EA		1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.77	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0305	EA		1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.88	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0306	EA		1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.00	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0307	EA		1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.33	
			<i>For >100 To 250, Deduct</i>	-1.36	
			<i>For >250 To 500, Deduct</i>	-1.70	
			<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0308	EA		1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.49	
			<i>For >100 To 250, Deduct</i>	-1.36	
			<i>For >250 To 500, Deduct</i>	-1.70	
			<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0309	EA		1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.65	
			<i>For >100 To 250, Deduct</i>	-1.36	
			<i>For >250 To 500, Deduct</i>	-1.70	
			<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0310			5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>	6.31	
05 05 23 00-0311	EA		5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.31	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0312	EA		5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.34	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0313	EA		5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.39	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0314	EA		5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.49	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0315	EA		5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.74	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0316	EA		5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.86	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0317	EA		5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.09	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0318	EA		5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.37	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0319	EA		5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.54	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0320	EA		5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.70	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0321	EA		5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.19	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0322 EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.25	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0323 EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.46	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0324 EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.94	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0325 EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.23	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0326 EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.51	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0327 3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0328 EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.36	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0329 EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.38	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0330 EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.48	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0331 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.59	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0332 EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.87	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0333 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.00	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0334 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.19	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0335 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.57	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0336 EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.02	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0337 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.22	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0338 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.67	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0339 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.86	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0340 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.20	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0341 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.64	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0342 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.09	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0343	EA		3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.46	
			<i>For >100 To 250, Deduct</i>	-1.36	
			<i>For >250 To 500, Deduct</i>	-1.70	
			<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0344			7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0345	EA		7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.43	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0346	EA		7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.52	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0347	EA		7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.76	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0348	EA		7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.11	
			<i>For >100 To 250, Deduct</i>	-1.42	
			<i>For >250 To 500, Deduct</i>	-1.78	
			<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0349	EA		7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.28	
			<i>For >100 To 250, Deduct</i>	-1.42	
			<i>For >250 To 500, Deduct</i>	-1.78	
			<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0350	EA		7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.44	
			<i>For >100 To 250, Deduct</i>	-1.42	
			<i>For >250 To 500, Deduct</i>	-1.78	
			<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0351	EA		7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.82	
			<i>For >100 To 250, Deduct</i>	-1.46	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0352	EA		7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.72	
			<i>For >100 To 250, Deduct</i>	-1.46	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0353	EA		7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.11	
			<i>For >100 To 250, Deduct</i>	-1.46	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0354	EA		7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.41	
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-1.87	
			<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0355	EA		7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.59	
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-1.87	
			<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0356	EA		7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.78	
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-1.87	
			<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0357	EA		7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.21	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0358	EA		7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.47	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0359	EA		7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.74	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0360			1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0361	EA		1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.55	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0362	EA		1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.68	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0363	EA		1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.81	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500, Deduct</i>	-2.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0364 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.20	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0365 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.40	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0366 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.62	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0367 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.99	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0368 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.69	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0369 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.74	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0370 EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.39	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0371 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.66	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0372 EA 1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.36	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0373 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.17	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0374 EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.56	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0375 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.71	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0376 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.61	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0377 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.30	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0378 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.27	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0379 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.65	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0380 9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0381 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.94	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0382 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.16	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0383 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.37	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0384 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.76	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	

05 Metals

05 05 Common Work Results For Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0385	EA		9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.05	
			<i>For >100 To 250, Deduct</i>	-1.42	
			<i>For >250 To 500, Deduct</i>	-1.78	
			<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0386	EA		9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.37	
			<i>For >100 To 250, Deduct</i>	-1.42	
			<i>For >250 To 500, Deduct</i>	-1.78	
			<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0387	EA		9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.91	
			<i>For >100 To 250, Deduct</i>	-1.46	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0388	EA		9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.13	
			<i>For >100 To 250, Deduct</i>	-1.46	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0389	EA		9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.45	
			<i>For >100 To 250, Deduct</i>	-1.46	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0390	EA		9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.97	
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-1.87	
			<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0391	EA		9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.31	
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-1.87	
			<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0392	EA		9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.45	
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-1.87	
			<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0393	EA		9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.01	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0394	EA		9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.48	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0395	EA		9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.26	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0396	EA		9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.17	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0397	EA		9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.45	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0398	EA		9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.74	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0399	EA		9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.44	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0400			5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0401	EA		5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.04	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0402	EA		5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.11	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0403	EA		5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.18	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0404	EA		5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.58	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0405	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.95	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0406 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.29	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0407 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.81	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0408 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.47	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0409 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.82	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0410 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.18	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0411 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.74	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0412 EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.64	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0413 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.63	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0414 EA 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.36	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0415 EA 5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.48	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0416 EA 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.00	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0417 EA 5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.99	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0418 EA 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.46	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0419 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.97	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0420 3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0421 EA 3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.87	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0422 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.02	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0423 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.10	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0424 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.60	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0425 EA 3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.97	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0426 EA 3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.54	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0427	EA		3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.10	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0428	EA		3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.46	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0429	EA		3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.23	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0430	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.75	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0431	EA		3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.39	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0432	EA		3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.16	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0433	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.43	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0434	EA		3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.24	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0435	EA		3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.69	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0436	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.07	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0437	EA		3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.48	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0438	EA		3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.81	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0439	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.14	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0440			7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0441	EA		7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.80	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0442	EA		7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.98	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0443	EA		7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.23	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0444	EA		7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.66	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0445	EA		7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.41	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0446	EA		7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.91	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0447	EA		7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.45	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0448 EA 7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.34	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0449 EA 7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.01	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0450 EA 7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.50	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0451 EA 7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.06	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0452 EA 7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.44	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0453 EA 7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.46	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0454 EA 7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.51	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0455 EA 7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.58	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0456 EA 7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.25	
<i>For >100 To 250, Deduct</i>	-1.91	
<i>For >250 To 500, Deduct</i>	-2.39	
<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0457 EA 7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.28	
<i>For >100 To 250, Deduct</i>	-1.91	
<i>For >250 To 500, Deduct</i>	-2.39	
<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0458 EA 7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.15	
<i>For >100 To 250, Deduct</i>	-1.91	
<i>For >250 To 500, Deduct</i>	-2.39	
<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0459 EA 7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	26.02	
<i>For >100 To 250, Deduct</i>	-1.91	
<i>For >250 To 500, Deduct</i>	-2.39	
<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0460 1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0461 EA 1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.47	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0462 EA 1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.52	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0463 EA 1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.26	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.22	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0464 EA 1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.99	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.22	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0465 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.52	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.22	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0466 EA 1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.37	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0467 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.22	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0468 EA 1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.46	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0469	EA		1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.52	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0470	EA		1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.78	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0471	EA		1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.51	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0472	EA		1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.79	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0473	EA		1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.63	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0474	EA		1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	25.15	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0475	EA		1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	31.21	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0476	EA		1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	31.67	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0477	EA		1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	32.93	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0478	EA		1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	33.79	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0479			Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0480			1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0481	EA		1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.25	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0482	EA		1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.33	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0483	EA		1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.38	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0484	EA		1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.47	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0485	EA		1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.70	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0486	EA		1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.81	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0487	EA		1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.91	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0488	EA		1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.08	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0489	EA		1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.37	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0490	EA		1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.63	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0491 EA 1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.94	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0492 EA 1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.09	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0493 EA 1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.27	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0494 EA 1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.58	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0495 EA 1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.94	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0496 EA 1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.09	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0497 5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0498 EA 5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.32	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0499 EA 5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.37	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0500 EA 5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.54	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0501 EA 5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.58	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0502 EA 5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.84	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0503 EA 5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.09	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0504 EA 5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.17	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0505 EA 5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.49	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0506 EA 5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.65	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0507 EA 5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.01	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0508 EA 5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.39	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0509 EA 5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.53	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0510 EA 5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.75	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0511 EA 5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.08	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0512	EA		5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.24	
			<i>For >100 To 250, Deduct</i>	-1.36	
			<i>For >250 To 500, Deduct</i>	-1.70	
			<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0513	EA		5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.55	
			<i>For >100 To 250, Deduct</i>	-1.36	
			<i>For >250 To 500, Deduct</i>	-1.70	
			<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0514			3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0515	EA		3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.50	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0516	EA		3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.52	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0517	EA		3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.53	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0518	EA		3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.73	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0519	EA		3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.02	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0520	EA		3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.22	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0521	EA		3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.40	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0522	EA		3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.13	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0523	EA		3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.36	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0524	EA		3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.41	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0525	EA		3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.67	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0526	EA		3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.92	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0527	EA		3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.03	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0528	EA		3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.48	
			<i>For >100 To 250, Deduct</i>	-1.36	
			<i>For >250 To 500, Deduct</i>	-1.70	
			<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0529	EA		3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.98	
			<i>For >100 To 250, Deduct</i>	-1.36	
			<i>For >250 To 500, Deduct</i>	-1.70	
			<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0530	EA		3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.15	
			<i>For >100 To 250, Deduct</i>	-1.36	
			<i>For >250 To 500, Deduct</i>	-1.70	
			<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0531			7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0532	EA		7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.56	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500, Deduct</i>	-2.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0533 EA 7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.59	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0534 EA 7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.91	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0535 EA 7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.11	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0536 EA 7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.46	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0537 EA 7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.65	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0538 EA 7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.87	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0539 EA 7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.65	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0540 EA 7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.26	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0541 EA 7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.84	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0542 EA 7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.05	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0543 EA 7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.37	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0544 EA 7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.02	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0545 EA 7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.05	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0546 EA 7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.13	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0547 1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0548 EA 1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.77	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0549 EA 1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.00	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0550 EA 1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.14	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0551 EA 1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.46	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0552 EA 1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.71	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0553 EA 1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.28	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0554	EA		1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.85	
			<i>For >100 To 250, Deduct</i>	-1.46	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0555	EA		1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.18	
			<i>For >100 To 250, Deduct</i>	-1.46	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0556	EA		1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.42	
			<i>For >100 To 250, Deduct</i>	-1.46	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0557	EA		1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.00	
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-1.87	
			<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0558	EA		1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.71	
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-1.87	
			<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0559	EA		1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.37	
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-1.87	
			<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0560	EA		1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.11	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0561	EA		1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.40	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0562	EA		1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.22	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0563	EA		1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.75	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0564	EA		1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.34	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0565	EA		1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.65	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0566	EA		1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.11	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0567			9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0568	EA		9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.98	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0569	EA		9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.12	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0570	EA		9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.44	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0571	EA		9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.07	
			<i>For >100 To 250, Deduct</i>	-1.42	
			<i>For >250 To 500, Deduct</i>	-1.78	
			<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0572	EA		9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.18	
			<i>For >100 To 250, Deduct</i>	-1.42	
			<i>For >250 To 500, Deduct</i>	-1.78	
			<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0573	EA		9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.65	
			<i>For >100 To 250, Deduct</i>	-1.42	
			<i>For >250 To 500, Deduct</i>	-1.78	
			<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0574	EA		9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.14	
			<i>For >100 To 250, Deduct</i>	-1.46	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0575 EA 9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.66	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0576 EA 9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.95	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0577 EA 9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.36	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0578 EA 9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.02	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0579 EA 9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.50	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0580 EA 9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.59	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0581 EA 9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.18	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0582 EA 9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.10	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0583 5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0584 EA 5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.33	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0585 EA 5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.47	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0586 EA 5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.82	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0587 EA 5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.51	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0588 EA 5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.93	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0589 EA 5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.16	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0590 EA 5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.48	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0591 EA 5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.23	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0592 EA 5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.56	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0593 EA 5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.08	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0594 EA 5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.43	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0595 EA 5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.17	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0596	EA		5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.09	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0597	EA		5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.93	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0598	EA		5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.28	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0599	EA		5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.95	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0600	EA		5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.59	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0601	EA		5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.72	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0602	EA		5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.25	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0603			3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0604	EA		3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.11	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0605	EA		3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.26	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0606	EA		3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.36	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0607	EA		3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.76	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0608	EA		3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.06	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0609	EA		3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.96	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0610	EA		3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.50	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0611	EA		3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.58	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0612	EA		3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.80	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0613	EA		3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.41	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0614	EA		3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.05	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0615	EA		3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.24	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0616	EA		3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.86	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0617 EA 3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.49	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0618 EA 3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.82	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0619 EA 3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.57	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0620 EA 3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.73	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0621 EA 3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.55	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0622 EA 3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.86	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0623 7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0624 EA 7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.14	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0625 EA 7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.54	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0626 EA 7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.29	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.22	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0627 EA 7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.47	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.22	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0628 EA 7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.61	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.22	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0629 EA 7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.03	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0630 EA 7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.88	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0631 EA 7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.60	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0632 EA 7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	21.47	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0633 EA 7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.54	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0634 EA 7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	25.30	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0635 EA 7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.39	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0636 EA 7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	29.22	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0637 EA 7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	30.37	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.81	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0638 EA 7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.46	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0639 EA 7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.79	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0640 EA 7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.07	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0641 EA 7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.75	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0642 1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0643 EA 1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.26	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0644 EA 1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.25	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-0645 EA 1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.86	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.22	
For >500, Deduct	-2.66	
05 05 23 00-0646 EA 1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.60	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.22	
For >500, Deduct	-2.66	
05 05 23 00-0647 EA 1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.98	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.22	
For >500, Deduct	-2.66	
05 05 23 00-0648 EA 1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.51	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0649 EA 1" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.71	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0650 EA 1" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.29	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0651 EA 1" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.22	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-0652 EA 1" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.89	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-0653 EA 1" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.22	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-0654 EA 1" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.90	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.81	
05 05 23 00-0655 EA 1" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	30.65	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.81	
05 05 23 00-0656 EA 1" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.30	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.81	
05 05 23 00-0657 EA 1" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	33.46	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0658 EA 1" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	34.55	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0659 EA 1" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	37.41	
<i>For >100 To 250, Deduct</i>	-1.91	
<i>For >250 To 500, Deduct</i>	-2.39	
<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0660 EA 1" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	39.16	
<i>For >100 To 250, Deduct</i>	-1.91	
<i>For >250 To 500, Deduct</i>	-2.39	
<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0661 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0662 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0663 EA 1/4" Diameter x 1 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.36	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0664 EA 1/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.38	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0665 EA 1/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.40	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0666 EA 1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.60	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0667 EA 1/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.87	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0668 EA 1/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.99	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0669 EA 1/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.04	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0670 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.22	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0671 EA 1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.36	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0672 EA 1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.40	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0673 EA 1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.67	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0674 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.79	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0675 EA 1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.84	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0676 EA 1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.14	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0677 EA 1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.48	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0678 EA 1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.91	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0679 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0680 EA 5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.27	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-1.82	
05 05 23 00-0681 EA 5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.66	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-1.82	
05 05 23 00-0682 EA 5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.70	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-1.82	
05 05 23 00-0683 EA 5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.72	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-1.82	
05 05 23 00-0684 EA 5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.06	
For >100 To 250, Deduct	-1.25	
For >250 To 500, Deduct	-1.56	
For >500, Deduct	-1.88	
05 05 23 00-0685 EA 5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.43	
For >100 To 250, Deduct	-1.25	
For >250 To 500, Deduct	-1.56	
For >500, Deduct	-1.88	
05 05 23 00-0686 EA 5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.50	
For >100 To 250, Deduct	-1.25	
For >250 To 500, Deduct	-1.56	
For >500, Deduct	-1.88	
05 05 23 00-0687 EA 5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.77	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.61	
For >500, Deduct	-1.93	
05 05 23 00-0688 EA 5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.80	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.61	
For >500, Deduct	-1.93	
05 05 23 00-0689 EA 5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.10	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.61	
For >500, Deduct	-1.93	
05 05 23 00-0690 EA 5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.35	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.98	
05 05 23 00-0691 EA 5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.46	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.98	
05 05 23 00-0692 EA 5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.75	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.98	
05 05 23 00-0693 EA 5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.50	
For >100 To 250, Deduct	-1.36	
For >250 To 500, Deduct	-1.70	
For >500, Deduct	-2.03	
05 05 23 00-0694 EA 5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.96	
For >100 To 250, Deduct	-1.36	
For >250 To 500, Deduct	-1.70	
For >500, Deduct	-2.03	
05 05 23 00-0695 EA 5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.38	
For >100 To 250, Deduct	-1.36	
For >250 To 500, Deduct	-1.70	
For >500, Deduct	-2.03	
05 05 23 00-0696 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0697 EA 3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.39	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-1.82	
05 05 23 00-0698 EA 3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.48	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-1.82	
05 05 23 00-0699 EA 3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.58	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-1.82	
05 05 23 00-0700 EA 3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.82	
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-1.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0701 EA 3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.09	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0702 EA 3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.29	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0703 EA 3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.43	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0704 EA 3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.79	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0705 EA 3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.89	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0706 EA 3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.13	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0707 EA 3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.41	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0708 EA 3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.73	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0709 EA 3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.79	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0710 EA 3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.00	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0711 EA 3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.04	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0712 EA 3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.42	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0713 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0714 EA 7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.85	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0715 EA 7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.28	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0716 EA 7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.61	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0717 EA 7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.33	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0718 EA 7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.35	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0719 EA 7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.39	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0720 EA 7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.84	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0721 EA 7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.15	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	

05 Metals

05 05 Common Work Results For Metals

05 05 23 Metal Fastenings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0722 EA 7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.42	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-0723 EA 7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.90	
For >100 To 250, Deduct	-1.49	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-0724 EA 7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.21	
For >100 To 250, Deduct	-1.49	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-0725 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0661)		
05 05 23 00-0726 EA 1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.66	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.09	
05 05 23 00-0727 EA 1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.80	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.09	
05 05 23 00-0728 EA 1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.08	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.09	
05 05 23 00-0729 EA 1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.57	
For >100 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	
05 05 23 00-0730 EA 1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.79	
For >100 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	
05 05 23 00-0731 EA 1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.18	
For >100 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	
05 05 23 00-0732 EA 1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.43	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-0733 EA 1/2" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.58	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-0734 EA 1/2" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.90	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-0735 EA 1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.22	
For >100 To 250, Deduct	-1.49	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-0736 EA 1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.57	
For >100 To 250, Deduct	-1.49	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-0737 EA 1/2" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.60	
For >100 To 250, Deduct	-1.49	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-0738 EA 1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.84	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-0739 EA 1/2" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.93	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-0740 EA 1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.20	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-0741 EA 1/2" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.64	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0742 EA 1/2" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.86	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0743 EA 1/2" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.90	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0744 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.03	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0745 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts		
<small>(05 05 23 00-0661)</small>		
05 05 23 00-0746 EA 5/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.02	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0747 EA 5/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.24	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0748 EA 5/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.39	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0749 EA 5/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.81	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0750 EA 5/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.12	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0751 EA 5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.83	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0752 EA 5/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.11	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0753 EA 5/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.23	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0754 EA 5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.45	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0755 EA 5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.90	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0756 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.15	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0757 EA 5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.88	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0758 EA 5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.09	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0759 EA 5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.37	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0760 EA 5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.74	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0761 EA 5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.45	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0762 EA 5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.05	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0763 EA 5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.43	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0764	EA		5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.53	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0765			3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0766	EA		3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.06	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0767	EA		3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.10	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0768	EA		3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.36	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0769	EA		3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.13	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0770	EA		3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.12	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0771	EA		3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.75	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0772	EA		3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.26	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0773	EA		3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.32	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0774	EA		3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.46	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0775	EA		3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.72	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0776	EA		3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.56	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0777	EA		3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.91	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0778	EA		3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.76	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0779	EA		3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.87	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0780	EA		3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.21	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0781	EA		3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.90	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0782	EA		3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.27	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0783	EA		3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.47	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0784	EA		3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.57	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0785				7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0786	EA			7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.98	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.17	
				<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0787	EA			7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.39	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.17	
				<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0788	EA			7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.79	
				<i>For >100 To 250, Deduct</i>	-1.77	
				<i>For >250 To 500, Deduct</i>	-2.22	
				<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0789	EA			7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.92	
				<i>For >100 To 250, Deduct</i>	-1.77	
				<i>For >250 To 500, Deduct</i>	-2.22	
				<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0790	EA			7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.23	
				<i>For >100 To 250, Deduct</i>	-1.77	
				<i>For >250 To 500, Deduct</i>	-2.22	
				<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0791	EA			7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.81	
				<i>For >100 To 250, Deduct</i>	-1.81	
				<i>For >250 To 500, Deduct</i>	-2.26	
				<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0792	EA			7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.25	
				<i>For >100 To 250, Deduct</i>	-1.81	
				<i>For >250 To 500, Deduct</i>	-2.26	
				<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0793	EA			7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.82	
				<i>For >100 To 250, Deduct</i>	-1.81	
				<i>For >250 To 500, Deduct</i>	-2.26	
				<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0794	EA			7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.40	
				<i>For >100 To 250, Deduct</i>	-1.84	
				<i>For >250 To 500, Deduct</i>	-2.30	
				<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0795	EA			7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.84	
				<i>For >100 To 250, Deduct</i>	-1.84	
				<i>For >250 To 500, Deduct</i>	-2.30	
				<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0796	EA			7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.35	
				<i>For >100 To 250, Deduct</i>	-1.84	
				<i>For >250 To 500, Deduct</i>	-2.30	
				<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0797	EA			7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.00	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0798	EA			7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.82	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0799	EA			7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.01	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0800	EA			7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.41	
				<i>For >100 To 250, Deduct</i>	-1.91	
				<i>For >250 To 500, Deduct</i>	-2.39	
				<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0801	EA			7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.87	
				<i>For >100 To 250, Deduct</i>	-1.91	
				<i>For >250 To 500, Deduct</i>	-2.39	
				<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0802	EA			7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.43	
				<i>For >100 To 250, Deduct</i>	-1.91	
				<i>For >250 To 500, Deduct</i>	-2.39	
				<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0803	EA			7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.97	
				<i>For >100 To 250, Deduct</i>	-1.91	
				<i>For >250 To 500, Deduct</i>	-2.39	
				<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0804				1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0805	EA			1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.83	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.17	
				<i>For >500, Deduct</i>	-2.60	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0806	EA		1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.13	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0807	EA		1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.89	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0808	EA		1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.49	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0809	EA		1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.04	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0810	EA		1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.34	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0811	EA		1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.23	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0812	EA		1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.50	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0813	EA		1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.83	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0814	EA		1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.83	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0815	EA		1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.57	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0816	EA		1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.83	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0817	EA		1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.08	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0818	EA		1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.62	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0819	EA		1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.63	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0820	EA		1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.40	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0821	EA		1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.54	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0822			304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0823			1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0824	EA		1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.27	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0825	EA		1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.34	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0826	EA		1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.43	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0827	EA		1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.53	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0828 EA 1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.80	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0829 EA 1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.95	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0830 EA 1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.12	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0831 EA 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.42	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0832 EA 1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.64	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0833 EA 1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.83	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0834 EA 1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.16	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0835 EA 1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.49	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0836 EA 1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	12.38	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0837 EA 1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	14.47	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0838 EA 1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	14.65	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0839 EA 1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	15.09	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0840 5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>	6.40	
05 05 23 00-0841 EA 5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.40	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0842 EA 5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.47	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0843 EA 5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.61	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0844 EA 5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.72	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0845 EA 5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.10	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0846 EA 5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.17	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0847 EA 5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.53	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 500, Deduct</i>	-1.56	
<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0848 EA 5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.95	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0849	EA		5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.36	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0850	EA		5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.56	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0851	EA		5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.35	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0852	EA		5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.37	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0853	EA		5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.68	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0854	EA		5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.62	
			<i>For >100 To 250, Deduct</i>	-1.36	
			<i>For >250 To 500, Deduct</i>	-1.70	
			<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0855			3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0856	EA		3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.58	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0857	EA		3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.66	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0858	EA		3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.88	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0859	EA		3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.16	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-0860	EA		3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.47	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0861	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.69	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0862	EA		3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.99	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-0863	EA		3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.42	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0864	EA		3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.77	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0865	EA		3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.53	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-0866	EA		3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.79	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0867	EA		3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.42	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0868	EA		3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.76	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.98	
05 05 23 00-0869	EA		3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.27	
			<i>For >100 To 250, Deduct</i>	-1.36	
			<i>For >250 To 500, Deduct</i>	-1.70	
			<i>For >500, Deduct</i>	-2.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0870 EA 3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	12.46	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0871 EA 3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.80	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0872 7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0873 EA 7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.16	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0874 EA 7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.25	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0875 EA 7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.61	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0876 EA 7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.99	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0877 EA 7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.42	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0878 EA 7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.13	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0879 EA 7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.63	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0880 EA 7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.46	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0881 EA 7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.83	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0882 EA 7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.14	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0883 EA 7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.41	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0884 EA 7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.58	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0885 EA 7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.90	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0886 1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0887 EA 1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.15	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0888 EA 1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.25	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0889 EA 1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.81	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0890 EA 1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.20	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0891	EA		1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.71	
			<i>For >100 To 250, Deduct</i>	-1.42	
			<i>For >250 To 500, Deduct</i>	-1.78	
			<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0892	EA		1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.98	
			<i>For >100 To 250, Deduct</i>	-1.42	
			<i>For >250 To 500, Deduct</i>	-1.78	
			<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0893	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.50	
			<i>For >100 To 250, Deduct</i>	-1.46	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0894	EA		1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.74	
			<i>For >100 To 250, Deduct</i>	-1.46	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0895	EA		1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.07	
			<i>For >100 To 250, Deduct</i>	-1.46	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0896	EA		1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.61	
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-1.87	
			<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0897	EA		1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.21	
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-1.87	
			<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0898	EA		1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.89	
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-1.87	
			<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0899	EA		1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.07	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0900	EA		1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.47	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0901	EA		1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.11	
			<i>For >100 To 250, Deduct</i>	-1.53	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500, Deduct</i>	-2.29	
05 05 23 00-0902	EA		1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.41	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0903	EA		1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.66	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0904	EA		1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.43	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0905	EA		1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.19	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0906			9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>	11.07	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0908	EA		9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.23	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0909	EA		9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.26	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0910	EA		9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.84	
			<i>For >100 To 250, Deduct</i>	-1.42	
			<i>For >250 To 500, Deduct</i>	-1.78	
			<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0911	EA		9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.56	
			<i>For >100 To 250, Deduct</i>	-1.42	
			<i>For >250 To 500, Deduct</i>	-1.78	
			<i>For >500, Deduct</i>	-2.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0912 EA 9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.82	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0913 EA 9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.85	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0914 EA 9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.13	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0915 EA 9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.80	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-0916 EA 9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.21	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0917 EA 9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.64	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-0918 5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0922)</small>		
05 05 23 00-0919 EA 5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.99	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0920 EA 5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.26	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0921 EA 5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.37	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0922 EA 5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.73	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0923 EA 5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.26	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0924 EA 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.01	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0925 EA 5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.12	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0926 EA 5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.13	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0927 EA 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.98	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0928 EA 5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.62	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0929 EA 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.39	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0930 EA 5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.17	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0931 EA 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.86	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0932 EA 5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.12	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0933	EA		5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.69	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0934	EA		5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.20	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0935	EA		5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.94	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0936	EA		5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.25	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0937	EA		5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.61	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0938			3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)		
05 05 23 00-0939	EA		3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.20	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0940	EA		3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.72	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0941	EA		3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.40	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0942	EA		3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.32	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0943	EA		3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.07	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0944	EA		3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.34	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0945	EA		3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.27	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0946	EA		3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.44	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0947	EA		3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.39	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-0948	EA		3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.53	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0949	EA		3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.63	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0950	EA		3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.69	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-0951	EA		3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.34	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0952	EA		3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.09	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0953	EA		3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.82	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0954	EA			3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	34.18	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.17	
				<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0955	EA			3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	34.77	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.17	
				<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0956	EA			3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	36.36	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.17	
				<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0957	EA			3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	37.59	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.17	
				<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0958				7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0922)		
05 05 23 00-0959	EA			7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	15.32	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.17	
				<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0960	EA			7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	16.61	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.17	
				<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0961	EA			7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	17.78	
				<i>For >100 To 250, Deduct</i>	-1.77	
				<i>For >250 To 500, Deduct</i>	-2.22	
				<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0962	EA			7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	19.09	
				<i>For >100 To 250, Deduct</i>	-1.77	
				<i>For >250 To 500, Deduct</i>	-2.22	
				<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0963	EA			7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	19.52	
				<i>For >100 To 250, Deduct</i>	-1.77	
				<i>For >250 To 500, Deduct</i>	-2.22	
				<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0964	EA			7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	20.76	
				<i>For >100 To 250, Deduct</i>	-1.81	
				<i>For >250 To 500, Deduct</i>	-2.26	
				<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0965	EA			7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	21.18	
				<i>For >100 To 250, Deduct</i>	-1.81	
				<i>For >250 To 500, Deduct</i>	-2.26	
				<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0966	EA			7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	24.03	
				<i>For >100 To 250, Deduct</i>	-1.81	
				<i>For >250 To 500, Deduct</i>	-2.26	
				<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0967	EA			7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	24.64	
				<i>For >100 To 250, Deduct</i>	-1.84	
				<i>For >250 To 500, Deduct</i>	-2.30	
				<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0968	EA			7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	25.74	
				<i>For >100 To 250, Deduct</i>	-1.84	
				<i>For >250 To 500, Deduct</i>	-2.30	
				<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0969	EA			7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	31.78	
				<i>For >100 To 250, Deduct</i>	-1.84	
				<i>For >250 To 500, Deduct</i>	-2.30	
				<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0970	EA			7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	34.27	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0971	EA			7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	36.98	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0972	EA			7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	39.16	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0973	EA			7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	45.97	
				<i>For >100 To 250, Deduct</i>	-1.91	
				<i>For >250 To 500, Deduct</i>	-2.39	
				<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0974	EA			7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	51.28	
				<i>For >100 To 250, Deduct</i>	-1.91	
				<i>For >250 To 500, Deduct</i>	-2.39	
				<i>For >500, Deduct</i>	-2.87	

05 Metals

05 05 Common Work Results For Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0975	EA		7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	53.74	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0976	EA		7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	56.19	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0977			1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0922)</small>		
05 05 23 00-0978	EA		1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.45	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0979	EA		1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.40	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-0980	EA		1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.98	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0981	EA		1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.17	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0982	EA		1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.12	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0983	EA		1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.48	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0984	EA		1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.84	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0985	EA		1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.85	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0986	EA		1" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.92	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0987	EA		1" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.03	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0988	EA		1" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.43	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0989	EA		1" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	44.43	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0990	EA		1" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	45.44	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0991	EA		1" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	46.46	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0992	EA		1" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	48.66	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0993	EA		1" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	51.78	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0994	EA		1" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	65.93	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	
05 05 23 00-0995	EA		1" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	82.41	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500, Deduct</i>	-2.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0996 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0997 1/4" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>		
05 05 23 00-0998 EA 1/4" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt 6.41 <i>For >100 To 250, Deduct</i> -1.22 <i>For >250 To 500, Deduct</i> -1.52 <i>For >500, Deduct</i> -1.82		
05 05 23 00-0999 EA 1/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt 6.56 <i>For >100 To 250, Deduct</i> -1.22 <i>For >250 To 500, Deduct</i> -1.52 <i>For >500, Deduct</i> -1.82		
05 05 23 00-1000 EA 1/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt 6.67 <i>For >100 To 250, Deduct</i> -1.22 <i>For >250 To 500, Deduct</i> -1.52 <i>For >500, Deduct</i> -1.82		
05 05 23 00-1001 EA 1/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt 6.74 <i>For >100 To 250, Deduct</i> -1.22 <i>For >250 To 500, Deduct</i> -1.52 <i>For >500, Deduct</i> -1.82		
05 05 23 00-1002 EA 1/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt 7.12 <i>For >100 To 250, Deduct</i> -1.25 <i>For >250 To 500, Deduct</i> -1.56 <i>For >500, Deduct</i> -1.88		
05 05 23 00-1003 EA 1/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt 7.32 <i>For >100 To 250, Deduct</i> -1.25 <i>For >250 To 500, Deduct</i> -1.56 <i>For >500, Deduct</i> -1.88		
05 05 23 00-1004 EA 1/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt 7.51 <i>For >100 To 250, Deduct</i> -1.25 <i>For >250 To 500, Deduct</i> -1.56 <i>For >500, Deduct</i> -1.88		
05 05 23 00-1005 EA 1/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt 7.83 <i>For >100 To 250, Deduct</i> -1.28 <i>For >250 To 500, Deduct</i> -1.61 <i>For >500, Deduct</i> -1.93		
05 05 23 00-1006 EA 1/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt 7.99 <i>For >100 To 250, Deduct</i> -1.28 <i>For >250 To 500, Deduct</i> -1.61 <i>For >500, Deduct</i> -1.93		
05 05 23 00-1007 EA 1/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt 8.07 <i>For >100 To 250, Deduct</i> -1.28 <i>For >250 To 500, Deduct</i> -1.61 <i>For >500, Deduct</i> -1.93		
05 05 23 00-1008 EA 1/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt 8.73 <i>For >100 To 250, Deduct</i> -1.32 <i>For >250 To 500, Deduct</i> -1.65 <i>For >500, Deduct</i> -1.98		
05 05 23 00-1009 EA 1/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt 8.87 <i>For >100 To 250, Deduct</i> -1.32 <i>For >250 To 500, Deduct</i> -1.65 <i>For >500, Deduct</i> -1.98		
05 05 23 00-1010 EA 1/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt 13.82 <i>For >100 To 250, Deduct</i> -1.32 <i>For >250 To 500, Deduct</i> -1.65 <i>For >500, Deduct</i> -1.98		
05 05 23 00-1011 EA 1/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt 20.02 <i>For >100 To 250, Deduct</i> -1.36 <i>For >250 To 500, Deduct</i> -1.70 <i>For >500, Deduct</i> -2.03		
05 05 23 00-1012 EA 1/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt 33.24 <i>For >100 To 250, Deduct</i> -1.36 <i>For >250 To 500, Deduct</i> -1.70 <i>For >500, Deduct</i> -2.03		
05 05 23 00-1013 EA 1/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt 36.26 <i>For >100 To 250, Deduct</i> -1.36 <i>For >250 To 500, Deduct</i> -1.70 <i>For >500, Deduct</i> -2.03		
05 05 23 00-1014 5/16" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>		
05 05 23 00-1015 EA 5/16" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt 6.61 <i>For >100 To 250, Deduct</i> -1.22 <i>For >250 To 500, Deduct</i> -1.52 <i>For >500, Deduct</i> -1.82		
05 05 23 00-1016 EA 5/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt 6.78 <i>For >100 To 250, Deduct</i> -1.22 <i>For >250 To 500, Deduct</i> -1.52 <i>For >500, Deduct</i> -1.82		
05 05 23 00-1017 EA 5/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt 7.06 <i>For >100 To 250, Deduct</i> -1.22 <i>For >250 To 500, Deduct</i> -1.52 <i>For >500, Deduct</i> -1.82		

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1018	EA		5/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	7.28	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-1019	EA		5/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	7.54	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-1020	EA		5/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	7.98	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-1021	EA		5/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.28	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-1022	EA		5/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	8.58	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-1023	EA		5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.23	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-1024	EA		5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	9.37	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-1025	EA		5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.99	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.98	
05 05 23 00-1026	EA		5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	10.50	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.98	
05 05 23 00-1027	EA		5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.72	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.98	
05 05 23 00-1028	EA		5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	20.90	
			<i>For >100 To 250, Deduct</i>	-1.36	
			<i>For >250 To 500, Deduct</i>	-1.70	
			<i>For >500, Deduct</i>	-2.03	
05 05 23 00-1029			3/8" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>		
05 05 23 00-1030	EA		3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	7.06	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-1031	EA		3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	7.13	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-1032	EA		3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	7.39	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-1033	EA		3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	8.02	
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-1.82	
05 05 23 00-1034	EA		3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.41	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-1035	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	8.53	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-1036	EA		3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.07	
			<i>For >100 To 250, Deduct</i>	-1.25	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500, Deduct</i>	-1.88	
05 05 23 00-1037	EA		3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	9.33	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	
05 05 23 00-1038	EA		3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.67	
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-1.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1039 EA 3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	9.90	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-1.93	
05 05 23 00-1040 EA 3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.84	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-1041 EA 3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	11.76	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-1042 EA 3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.80	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.98	
05 05 23 00-1043 EA 3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	14.34	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-1044 EA 3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.16	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-1045 EA 3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	22.28	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-1046 7/16" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>		
05 05 23 00-1047 EA 7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	8.98	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-1048 EA 7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.38	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-1049 EA 7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	10.12	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-1050 EA 7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.93	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-1051 EA 7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	11.64	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-1052 EA 7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.81	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-1053 EA 7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	14.11	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-1054 EA 7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.31	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-1055 EA 7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	14.74	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-1056 EA 7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.19	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-1057 EA 7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	15.49	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-1058 EA 7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.80	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-1059 EA 7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	16.21	
<i>For >100 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.29	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1060 1/2" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1061 EA 1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	8.96	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.09	
05 05 23 00-1062 EA 1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.39	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.09	
05 05 23 00-1063 EA 1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	9.99	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.09	
05 05 23 00-1064 EA 1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.87	
For >100 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	
05 05 23 00-1065 EA 1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	11.53	
For >100 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	
05 05 23 00-1066 EA 1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.69	
For >100 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	
05 05 23 00-1067 EA 1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	12.15	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-1068 EA 1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.42	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-1069 EA 1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	16.00	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-1070 EA 1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.36	
For >100 To 250, Deduct	-1.49	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-1071 EA 1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	16.76	
For >100 To 250, Deduct	-1.49	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-1072 EA 1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.95	
For >100 To 250, Deduct	-1.49	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-1073 EA 1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	22.26	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-1074 EA 1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	23.64	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-1075 EA 1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	25.92	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.29	
05 05 23 00-1076 EA 1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	32.14	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-1077 EA 1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	36.04	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-1078 EA 1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	36.68	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-1079 EA 1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	37.67	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-1080 9/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1081 EA 9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	19.65	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1082 EA 9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.05	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-1083 EA 9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	25.74	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-1084 EA 9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.54	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-1085 EA 9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	31.32	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-1086 EA 9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	34.09	
<i>For >100 To 250, Deduct</i>	-1.42	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-1087 EA 9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	36.00	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-1088 EA 9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	38.28	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-1089 EA 9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	40.31	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.19	
05 05 23 00-1090 EA 9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.09	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
05 05 23 00-1091 EA 9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	42.88	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.24	
 05 05 23 00-1092 5/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1093 EA 5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	12.00	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1094 EA 5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.12	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1095 EA 5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	12.16	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1096 EA 5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.14	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1097 EA 5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	13.96	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1098 EA 5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.57	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1099 EA 5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	17.29	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-1100 EA 5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.58	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-1101 EA 5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	20.37	
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500, Deduct</i>	-2.45	
05 05 23 00-1102 EA 5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.04	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1103	EA		5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	22.69	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-1104	EA		5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.70	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-1105	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	28.31	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1106	EA		5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.82	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1107	EA		5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	30.69	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.13	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1108	EA		5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	32.55	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-1109	EA		5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	34.14	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-1110	EA		5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.69	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-1111	EA		5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	49.77	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.60	
05 05 23 00-1112			3/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1113	EA		3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	15.17	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1114	EA		3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.46	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1115	EA		3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	16.55	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1116	EA		3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.68	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1117	EA		3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	19.71	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1118	EA		3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.89	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1119	EA		3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	23.57	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-1120	EA		3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	24.61	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-1121	EA		3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	25.17	
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.45	
05 05 23 00-1122	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.11	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	
05 05 23 00-1123	EA		3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	27.41	
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500, Deduct</i>	-2.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1124 EA 3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	31.41	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.50	
05 05 23 00-1125 EA 3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	37.37	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1126 EA 3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.88	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1127 EA 3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	42.56	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1128 EA 3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	45.45	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-1129 EA 3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	52.29	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-1130 EA 3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	52.87	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-1131 EA 3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	54.31	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-1132 7/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1133 EA 7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.08	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-1134 EA 7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	18.96	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.60	
05 05 23 00-1135 EA 7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.17	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.22	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-1136 EA 7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	22.80	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.22	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-1137 EA 7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	23.98	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.22	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-1138 EA 7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	25.18	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-1139 EA 7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.78	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-1140 EA 7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	30.36	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-1141 EA 7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	30.63	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-1142 EA 7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	31.82	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-1143 EA 7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.86	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-1144 EA 7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	46.46	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.81	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1145 EA 7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	51.22	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.81	
05 05 23 00-1146 EA 7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	53.57	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.81	
05 05 23 00-1147 EA 7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	56.78	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-1148 EA 7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	58.83	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-1149 EA 7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	60.85	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-1150 EA 7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	63.12	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-1151 1" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1152 EA 1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	21.22	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.60	
05 05 23 00-1153 EA 1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	24.29	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.22	
For >500, Deduct	-2.66	
05 05 23 00-1154 EA 1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	26.23	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.22	
For >500, Deduct	-2.66	
05 05 23 00-1155 EA 1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	29.33	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.22	
For >500, Deduct	-2.66	
05 05 23 00-1156 EA 1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	30.61	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-1157 EA 1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	32.71	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-1158 EA 1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	34.83	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-1159 EA 1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	37.14	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-1160 EA 1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	42.63	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-1161 EA 1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	48.03	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-1162 EA 1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	55.60	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.81	
05 05 23 00-1163 EA 1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	61.82	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.81	
05 05 23 00-1164 EA 1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	62.71	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.81	
05 05 23 00-1165 EA 1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	64.91	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1166 EA 1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	65.76	
<i>For >100 To 250, Deduct</i>	-1.91	
<i>For >250 To 500, Deduct</i>	-2.39	
<i>For >500, Deduct</i>	-2.87	
05 05 23 00-1167 EA 1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	76.08	
<i>For >100 To 250, Deduct</i>	-1.91	
<i>For >250 To 500, Deduct</i>	-2.39	
<i>For >500, Deduct</i>	-2.87	
05 05 23 00-1168 EA 1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	86.05	
<i>For >100 To 250, Deduct</i>	-1.91	
<i>For >250 To 500, Deduct</i>	-2.39	
<i>For >500, Deduct</i>	-2.87	
05 05 23 00-1169 Screws <small>(05 05 23)</small>		
05 05 23 00-1170 Teks® 5 Self Drilling Screws <small>(05 05 23 00-1169)</small>		
Note: Screws include Climaseal® finish, self-drill point and tapping threads.		
05 05 23 00-1171 EA 12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw	3.19	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.30	
<i>For >100, Deduct</i>	-0.59	
05 05 23 00-1172 EA 12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw	3.29	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.30	
<i>For >100, Deduct</i>	-0.60	
05 05 23 00-1173 EA 12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw	3.63	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.65	
05 05 23 00-1174 EA 1/4"-28 x 3", Hex Washer Head, Teks® 5 Self Drilling Screw	4.88	
<i>For >10 To 50, Deduct</i>	-0.19	
<i>For >50 To 100, Deduct</i>	-0.41	
<i>For >100, Deduct</i>	-0.82	
05 05 23 00-1175 EA 1/4"-28 x 4", Hex Washer Head, Teks® 5 Self Drilling Screw	5.19	
<i>For >10 To 50, Deduct</i>	-0.20	
<i>For >50 To 100, Deduct</i>	-0.43	
<i>For >100, Deduct</i>	-0.87	
05 05 23 00-1176 EA 1/4"-28 x 6", Hex Washer Head, Teks® 5 Self Drilling Screw	6.21	
<i>For >10 To 50, Deduct</i>	-0.21	
<i>For >50 To 100, Deduct</i>	-0.47	
<i>For >100, Deduct</i>	-0.95	
05 05 23 00-1177 EA 1/4"-28 x 8", Hex Washer Head, Teks® 5 Self Drilling Screw	6.86	
<i>For >10 To 50, Deduct</i>	-0.22	
<i>For >50 To 100, Deduct</i>	-0.50	
<i>For >100, Deduct</i>	-1.01	
05 05 23 00-1178 Security Screws <small>(05 05 23 00-1169)</small>		
05 05 23 00-1179 304/18-8 Stainless Steel, Security Screws <small>(05 05 23 00-1178)</small>		
Note: Includes "security" style drive in machine or sheet metal screw threads.		
05 05 23 00-1180 EA #4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws	2.54	
<i>For >10 To 50, Deduct</i>	-0.12	
<i>For >50 To 100, Deduct</i>	-0.25	
<i>For >100, Deduct</i>	-0.49	
05 05 23 00-1181 EA #6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	2.83	
<i>For >10 To 50, Deduct</i>	-0.12	
<i>For >50 To 100, Deduct</i>	-0.25	
<i>For >100, Deduct</i>	-0.51	
05 05 23 00-1182 EA #6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	3.08	
<i>For >10 To 50, Deduct</i>	-0.12	
<i>For >50 To 100, Deduct</i>	-0.26	
<i>For >100, Deduct</i>	-0.52	
05 05 23 00-1183 EA #6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	3.17	
<i>For >10 To 50, Deduct</i>	-0.12	
<i>For >50 To 100, Deduct</i>	-0.26	
<i>For >100, Deduct</i>	-0.52	
05 05 23 00-1184 EA #6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	3.33	
<i>For >10 To 50, Deduct</i>	-0.12	
<i>For >50 To 100, Deduct</i>	-0.27	
<i>For >100, Deduct</i>	-0.53	
05 05 23 00-1185 EA #8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	2.90	
<i>For >10 To 50, Deduct</i>	-0.12	
<i>For >50 To 100, Deduct</i>	-0.25	
<i>For >100, Deduct</i>	-0.51	
05 05 23 00-1186 EA #8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	3.02	
<i>For >10 To 50, Deduct</i>	-0.12	
<i>For >50 To 100, Deduct</i>	-0.26	
<i>For >100, Deduct</i>	-0.52	
05 05 23 00-1187 EA #8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	3.26	
<i>For >10 To 50, Deduct</i>	-0.12	
<i>For >50 To 100, Deduct</i>	-0.26	
<i>For >100, Deduct</i>	-0.53	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1188 EA #8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.34	
For >10 To 50, Deduct	-0.12	
For >50 To 100, Deduct	-0.27	
For >100, Deduct	-0.53	
05 05 23 00-1189 EA #10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	2.97	
For >10 To 50, Deduct	-0.12	
For >50 To 100, Deduct	-0.26	
For >100, Deduct	-0.51	
05 05 23 00-1190 EA #10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.00	
For >10 To 50, Deduct	-0.12	
For >50 To 100, Deduct	-0.26	
For >100, Deduct	-0.51	
05 05 23 00-1191 EA #10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.11	
For >10 To 50, Deduct	-0.12	
For >50 To 100, Deduct	-0.26	
For >100, Deduct	-0.52	
05 05 23 00-1192 EA #10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.45	
For >10 To 50, Deduct	-0.12	
For >50 To 100, Deduct	-0.27	
For >100, Deduct	-0.54	
05 05 23 00-1193 EA 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.17	
For >10 To 50, Deduct	-0.12	
For >50 To 100, Deduct	-0.26	
For >100, Deduct	-0.52	
05 05 23 00-1194 EA 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.24	
For >10 To 50, Deduct	-0.12	
For >50 To 100, Deduct	-0.26	
For >100, Deduct	-0.53	
05 05 23 00-1195 EA 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.57	
For >10 To 50, Deduct	-0.12	
For >50 To 100, Deduct	-0.27	
For >100, Deduct	-0.54	
05 05 23 00-1196 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.08	
For >10 To 50, Deduct	-0.12	
For >50 To 100, Deduct	-0.28	
For >100, Deduct	-0.57	
05 05 23 00-1197 Threaded Rod <small>(05 05 23)</small>		
Note: Fully threaded. See CSI section 05 05 19 00-0169 for anchoring adhesive, 05 05 23 00-1290 for nuts and washers.		
05 05 23 00-1198 Plain Finish Steel, Low Carbon Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1199 LF 1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	1.79	0.45
For Left Hand Threaded Rod, Add	0.09	
05 05 23 00-1200 LF 5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	2.34	0.49
For Left Hand Threaded Rod, Add	0.14	
05 05 23 00-1201 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	2.72	0.56
For Left Hand Threaded Rod, Add	0.16	
05 05 23 00-1202 LF 7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	3.63	0.58
For Left Hand Threaded Rod, Add	0.25	
05 05 23 00-1203 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	3.73	0.60
For Left Hand Threaded Rod, Add	0.25	
05 05 23 00-1204 LF 9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	4.59	0.61
For Left Hand Threaded Rod, Add	0.34	
05 05 23 00-1205 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	5.15	0.62
For Left Hand Threaded Rod, Add	0.39	
05 05 23 00-1206 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	8.39	0.63
For Left Hand Threaded Rod, Add	0.71	
05 05 23 00-1207 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	9.14	0.66
For Left Hand Threaded Rod, Add	0.78	
05 05 23 00-1208 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	12.47	0.74
For Left Hand Threaded Rod, Add	1.10	
05 05 23 00-1209 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	15.50	0.84
For Left Hand Threaded Rod, Add	1.38	
05 05 23 00-1210 LF 1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	20.54	0.90
For Left Hand Threaded Rod, Add	1.87	
05 05 23 00-1211 LF 1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	25.52	0.98
For Left Hand Threaded Rod, Add	2.36	
05 05 23 00-1212 LF 1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	30.50	1.03
For Left Hand Threaded Rod, Add	2.85	
05 05 23 00-1213 LF 1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	37.38	1.07
For Left Hand Threaded Rod, Add	3.52	
05 05 23 00-1214 LF 2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	47.70	1.13
For Left Hand Threaded Rod, Add	4.55	
05 05 23 00-1215 Zinc Plated Steel, Low Carbon Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1216 LF 1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	1.81	0.45
For Left Hand Threaded Rod, Add	0.09	
05 05 23 00-1217 LF 5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	2.64	0.49
For Left Hand Threaded Rod, Add	0.17	
05 05 23 00-1218 LF 3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	2.94	0.56
For Left Hand Threaded Rod, Add	0.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1219 LF 7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	4.19	0.58
<i>For Left Hand Threaded Rod, Add</i>	0.30	
05 05 23 00-1220 LF 1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	4.51	0.60
<i>For Left Hand Threaded Rod, Add</i>	0.33	
05 05 23 00-1221 LF 9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	5.87	0.61
<i>For Left Hand Threaded Rod, Add</i>	0.47	
05 05 23 00-1222 LF 5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	6.22	0.62
<i>For Left Hand Threaded Rod, Add</i>	0.50	
05 05 23 00-1223 LF 3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	9.31	0.63
<i>For Left Hand Threaded Rod, Add</i>	0.80	
05 05 23 00-1224 LF 7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	12.02	0.66
<i>For Left Hand Threaded Rod, Add</i>	1.07	
05 05 23 00-1225 LF 1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	16.11	0.74
<i>For Left Hand Threaded Rod, Add</i>	1.46	
05 05 23 00-1226 LF 1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	20.77	0.84
<i>For Left Hand Threaded Rod, Add</i>	1.91	
05 05 23 00-1227 LF 1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	24.77	0.90
<i>For Left Hand Threaded Rod, Add</i>	2.29	
05 05 23 00-1228 LF 1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	28.14	0.98
<i>For Left Hand Threaded Rod, Add</i>	2.62	
05 05 23 00-1229 LF 1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	35.40	1.03
<i>For Left Hand Threaded Rod, Add</i>	3.34	
05 05 23 00-1230 LF 1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	43.84	1.07
<i>For Left Hand Threaded Rod, Add</i>	4.17	
05 05 23 00-1231 LF 2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	63.88	1.13
<i>For Left Hand Threaded Rod, Add</i>	6.16	
05 05 23 00-1232 Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1233 LF 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	4.78	0.56
<i>For Left Hand Threaded Rod, Add</i>	0.37	
05 05 23 00-1234 LF 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	6.65	0.60
<i>For Left Hand Threaded Rod, Add</i>	0.55	
05 05 23 00-1235 LF 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	8.93	0.62
<i>For Left Hand Threaded Rod, Add</i>	0.77	
05 05 23 00-1236 LF 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	12.23	0.63
<i>For Left Hand Threaded Rod, Add</i>	1.10	
05 05 23 00-1237 LF 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	16.88	0.66
<i>For Left Hand Threaded Rod, Add</i>	1.56	
05 05 23 00-1238 LF 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	21.77	0.74
<i>For Left Hand Threaded Rod, Add</i>	2.03	
05 05 23 00-1239 LF 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	28.60	0.84
<i>For Left Hand Threaded Rod, Add</i>	2.69	
05 05 23 00-1240 LF 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	37.59	0.90
<i>For Left Hand Threaded Rod, Add</i>	3.57	
05 05 23 00-1241 LF 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	42.00	0.98
<i>For Left Hand Threaded Rod, Add</i>	4.01	
05 05 23 00-1242 LF 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	49.97	1.03
<i>For Left Hand Threaded Rod, Add</i>	4.79	
05 05 23 00-1243 LF 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	60.69	1.07
<i>For Left Hand Threaded Rod, Add</i>	5.86	
05 05 23 00-1244 LF 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	105.79	1.13
<i>For Left Hand Threaded Rod, Add</i>	10.36	
05 05 23 00-1245 304/18-8 Stainless Steel Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1246 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	2.43	0.45
<i>For Left Hand Threaded Rod, Add</i>	0.15	
05 05 23 00-1247 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	3.61	0.49
<i>For Left Hand Threaded Rod, Add</i>	0.26	
05 05 23 00-1248 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	4.63	0.56
<i>For Left Hand Threaded Rod, Add</i>	0.35	
05 05 23 00-1249 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	6.37	0.58
<i>For Left Hand Threaded Rod, Add</i>	0.52	
05 05 23 00-1250 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	7.61	0.60
<i>For Left Hand Threaded Rod, Add</i>	0.64	
05 05 23 00-1251 LF 9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	10.87	0.61
<i>For Left Hand Threaded Rod, Add</i>	0.97	
05 05 23 00-1252 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	11.35	0.62
<i>For Left Hand Threaded Rod, Add</i>	1.01	
05 05 23 00-1253 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	15.83	0.63
<i>For Left Hand Threaded Rod, Add</i>	1.46	
05 05 23 00-1254 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	21.70	0.66
<i>For Left Hand Threaded Rod, Add</i>	2.04	
05 05 23 00-1255 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	27.81	0.74
<i>For Left Hand Threaded Rod, Add</i>	2.63	
05 05 23 00-1256 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	58.69	0.90
<i>For Left Hand Threaded Rod, Add</i>	5.68	
05 05 23 00-1257 LF 1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	89.25	1.03
<i>For Left Hand Threaded Rod, Add</i>	8.72	
05 05 23 00-1258 LF 1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	91.81	1.07
<i>For Left Hand Threaded Rod, Add</i>	8.97	
05 05 23 00-1259 LF 2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	126.93	1.13
<i>For Left Hand Threaded Rod, Add</i>	12.47	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1260			316 Stainless Steel Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1261	LF		1/4" Diameter, 316 Stainless Steel Threaded Rod.....	3.47	0.45
			<i>For Left Hand Threaded Rod, Add</i>	0.26	
05 05 23 00-1262	LF		5/16" Diameter, 316 Stainless Steel Threaded Rod.....	5.52	0.49
			<i>For Left Hand Threaded Rod, Add</i>	0.45	
05 05 23 00-1263	LF		3/8" Diameter, 316 Stainless Steel Threaded Rod.....	7.31	0.56
			<i>For Left Hand Threaded Rod, Add</i>	0.62	
05 05 23 00-1264	LF		7/16" Diameter, 316 Stainless Steel Threaded Rod.....	11.32	0.58
			<i>For Left Hand Threaded Rod, Add</i>	1.02	
05 05 23 00-1265	LF		1/2" Diameter, 316 Stainless Steel Threaded Rod.....	12.00	0.60
			<i>For Left Hand Threaded Rod, Add</i>	1.08	
05 05 23 00-1266	LF		9/16" Diameter, 316 Stainless Steel Threaded Rod.....	15.70	0.61
			<i>For Left Hand Threaded Rod, Add</i>	1.45	
05 05 23 00-1267	LF		5/8" Diameter, 316 Stainless Steel Threaded Rod.....	16.88	0.62
			<i>For Left Hand Threaded Rod, Add</i>	1.56	
05 05 23 00-1268	LF		3/4" Diameter, 316 Stainless Steel Threaded Rod.....	24.54	0.63
			<i>For Left Hand Threaded Rod, Add</i>	2.33	
05 05 23 00-1269	LF		7/8" Diameter, 316 Stainless Steel Threaded Rod.....	33.53	0.66
			<i>For Left Hand Threaded Rod, Add</i>	3.22	
05 05 23 00-1270	LF		1" Diameter, 316 Stainless Steel Threaded Rod.....	42.41	0.74
			<i>For Left Hand Threaded Rod, Add</i>	4.09	
05 05 23 00-1271	LF		1-1/4" Diameter, 316 Stainless Steel Threaded Rod.....	89.34	0.90
			<i>For Left Hand Threaded Rod, Add</i>	8.75	
05 05 23 00-1272	LF		1-1/2" Diameter, 316 Stainless Steel Threaded Rod.....	117.04	1.03
			<i>For Left Hand Threaded Rod, Add</i>	11.50	
05 05 23 00-1273			Plain Finish Steel, B-7 Alloy Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1274	LF		1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	3.05	0.45
			<i>For Zinc Plating, Add</i>	1.08	
05 05 23 00-1275	LF		5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	4.68	0.49
			<i>For Zinc Plating, Add</i>	1.85	
05 05 23 00-1276	LF		3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	4.90	0.56
			<i>For Zinc Plating, Add</i>	1.89	
05 05 23 00-1277	LF		7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	5.34	0.58
			<i>For Zinc Plating, Add</i>	2.09	
05 05 23 00-1278	LF		1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	5.89	0.60
			<i>For Zinc Plating, Add</i>	2.35	
05 05 23 00-1279	LF		9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	7.33	0.61
			<i>For Zinc Plating, Add</i>	3.06	
05 05 23 00-1280	LF		5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	7.56	0.62
			<i>For Zinc Plating, Add</i>	3.16	
05 05 23 00-1281	LF		3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	10.02	0.63
			<i>For Zinc Plating, Add</i>	4.37	
05 05 23 00-1282	LF		7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	11.99	0.66
			<i>For Zinc Plating, Add</i>	5.34	
05 05 23 00-1283	LF		1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	15.55	0.74
			<i>For Zinc Plating, Add</i>	7.03	
05 05 23 00-1284	LF		1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	20.20	0.84
			<i>For Zinc Plating, Add</i>	9.27	
05 05 23 00-1285	LF		1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	22.49	0.90
			<i>For Zinc Plating, Add</i>	10.31	
05 05 23 00-1286	LF		1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	25.95	0.98
			<i>For Zinc Plating, Add</i>	12.00	
05 05 23 00-1287	LF		1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	31.53	1.03
			<i>For Zinc Plating, Add</i>	14.75	
05 05 23 00-1288	LF		1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	32.60	1.07
			<i>For Zinc Plating, Add</i>	15.23	
05 05 23 00-1289	LF		2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	43.72	1.13
			<i>For Zinc Plating, Add</i>	20.74	
05 05 23 00-1290			Nuts And Washers <small>(05 05 23)</small>		
05 05 23 00-1291			Hex Nuts <small>(05 05 23 00-1290)</small>		
05 05 23 00-1292			Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts <small>(05 05 23 00-1291)</small>		
05 05 23 00-1293	EA		1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.54	0.24
05 05 23 00-1294	EA		5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.60	0.24
05 05 23 00-1295	EA		3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.65	0.24
05 05 23 00-1296	EA		7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.75	0.24
05 05 23 00-1297	EA		1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.82	0.24
05 05 23 00-1298	EA		9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.09	0.24
05 05 23 00-1299	EA		5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.12	0.24
05 05 23 00-1300	EA		3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.33	0.48
05 05 23 00-1301	EA		7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.96	0.48
05 05 23 00-1302	EA		1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.49	0.48
05 05 23 00-1303	EA		1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	4.09	0.48
05 05 23 00-1304	EA		1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	5.01	0.48
05 05 23 00-1305	EA		1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	7.39	0.48
05 05 23 00-1306	EA		1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	8.56	0.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1307 EA 1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	12.59	0.72
05 05 23 00-1308 EA 2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	18.20	0.72
05 05 23 00-1309 Zinc Plated Steel, Grade 5 Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1310 EA 1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.56	0.24
05 05 23 00-1311 EA 5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.61	0.24
05 05 23 00-1312 EA 3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.67	0.24
05 05 23 00-1313 EA 7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.78	0.24
05 05 23 00-1314 EA 1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.92	0.24
05 05 23 00-1315 EA 9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.12	0.24
05 05 23 00-1316 EA 5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.14	0.24
05 05 23 00-1317 EA 3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.51	0.48
05 05 23 00-1318 EA 7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	2.14	0.48
05 05 23 00-1319 EA 1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	3.02	0.48
05 05 23 00-1320 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	4.62	0.48
05 05 23 00-1321 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	6.56	0.48
05 05 23 00-1322 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	9.64	0.48
05 05 23 00-1323 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	10.65	0.72
05 05 23 00-1324 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	19.24	0.72
05 05 23 00-1325 EA 2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	27.61	0.72
05 05 23 00-1326 Zinc Plated Steel, Grade 8 Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1327 EA 1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	0.57	0.24
05 05 23 00-1328 EA 5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	0.65	0.24
05 05 23 00-1329 EA 3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	0.72	0.24
05 05 23 00-1330 EA 7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	0.89	0.24
05 05 23 00-1331 EA 1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	1.07	0.24
05 05 23 00-1332 EA 9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	1.30	0.24
05 05 23 00-1333 EA 5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	1.47	0.24
05 05 23 00-1334 EA 3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	1.84	0.48
05 05 23 00-1335 EA 7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	2.76	0.48
05 05 23 00-1336 EA 1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	3.68	0.48
05 05 23 00-1337 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	5.78	0.48
05 05 23 00-1338 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	7.23	0.48
05 05 23 00-1339 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	11.92	0.48
05 05 23 00-1340 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	12.65	0.72
05 05 23 00-1341 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	19.30	0.72
05 05 23 00-1342 EA 2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	27.30	0.72
05 05 23 00-1343 Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1344 EA 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.57	0.24
05 05 23 00-1345 EA 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.64	0.24
05 05 23 00-1346 EA 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.70	0.24
05 05 23 00-1347 EA 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.87	0.24
05 05 23 00-1348 EA 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.01	0.24
05 05 23 00-1349 EA 9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.13	0.24
05 05 23 00-1350 EA 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.25	0.24
05 05 23 00-1351 EA 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.68	0.48
05 05 23 00-1352 EA 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	2.43	0.48
05 05 23 00-1353 EA 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	3.36	0.48
05 05 23 00-1354 EA 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	5.59	0.48
05 05 23 00-1355 EA 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	7.18	0.48
05 05 23 00-1356 EA 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	10.67	0.48
05 05 23 00-1357 EA 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	12.46	0.72
05 05 23 00-1358 EA 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	21.74	0.72
05 05 23 00-1359 EA 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	37.64	0.72
05 05 23 00-1360 304 Stainless Steel Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1361 EA 1/4" Diameter, 304 Stainless Steel Hex Nut.....	0.60	0.24
05 05 23 00-1362 EA 5/16" Diameter, 304 Stainless Steel Hex Nut.....	0.70	0.24
05 05 23 00-1363 EA 3/8" Diameter, 304 Stainless Steel Hex Nut.....	0.79	0.24
05 05 23 00-1364 EA 7/16" Diameter, 304 Stainless Steel Hex Nut.....	1.13	0.24
05 05 23 00-1365 EA 1/2" Diameter, 304 Stainless Steel Hex Nut.....	1.22	0.24
05 05 23 00-1366 EA 9/16" Diameter, 304 Stainless Steel Hex Nut.....	1.81	0.24
05 05 23 00-1367 EA 5/8" Diameter, 304 Stainless Steel Hex Nut.....	2.00	0.24
05 05 23 00-1368 EA 3/4" Diameter, 304 Stainless Steel Hex Nut.....	2.30	0.48
05 05 23 00-1369 EA 7/8" Diameter, 304 Stainless Steel Hex Nut.....	3.68	0.48
05 05 23 00-1370 EA 1" Diameter, 304 Stainless Steel Hex Nut.....	5.60	0.48
05 05 23 00-1371 EA 1-1/4" Diameter, 304 Stainless Steel Hex Nut.....	13.32	0.48
05 05 23 00-1372 EA 1-1/2" Diameter, 304 Stainless Steel Hex Nut.....	25.45	0.72
05 05 23 00-1373 EA 1-3/4" Diameter, 304 Stainless Steel Hex Nut.....	44.62	0.72
05 05 23 00-1374 EA 2" Diameter, 304 Stainless Steel Hex Nut.....	63.52	0.72
05 05 23 00-1375 316 Stainless Steel Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1376 EA 1/4" Diameter, 316 Stainless Steel Hex Nut.....	0.69	0.24

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

05 05 23 00-1377	EA	5/16" Diameter, 316 Stainless Steel Hex Nut.....	0.78	0.24
05 05 23 00-1378	EA	3/8" Diameter, 316 Stainless Steel Hex Nut.....	0.93	0.24
05 05 23 00-1379	EA	7/16" Diameter, 316 Stainless Steel Hex Nut.....	1.45	0.24
05 05 23 00-1380	EA	1/2" Diameter, 316 Stainless Steel Hex Nut.....	1.56	0.24
05 05 23 00-1381	EA	9/16" Diameter, 316 Stainless Steel Hex Nut.....	2.09	0.24
05 05 23 00-1382	EA	5/8" Diameter, 316 Stainless Steel Hex Nut.....	2.35	0.24
05 05 23 00-1383	EA	3/4" Diameter, 316 Stainless Steel Hex Nut.....	3.24	0.48
05 05 23 00-1384	EA	7/8" Diameter, 316 Stainless Steel Hex Nut.....	4.45	0.48
05 05 23 00-1385	EA	1" Diameter, 316 Stainless Steel Hex Nut.....	6.83	0.48
05 05 23 00-1386	EA	1-1/4" Diameter, 316 Stainless Steel Hex Nut.....	20.56	0.48
05 05 23 00-1387	EA	1-1/2" Diameter, 316 Stainless Steel Hex Nut.....	33.17	0.72
05 05 23 00-1388	EA	1-3/4" Diameter, 316 Stainless Steel Hex Nut.....	55.86	0.72
05 05 23 00-1389	EA	2" Diameter, 316 Stainless Steel Hex Nut.....	103.69	0.72

05 05 23 00-1390 Flat Washers (05 05 23 00-1290)**05 05 23 00-1391 Zinc Plated Steel, Low Carbon Flat Washers (05 05 23 00-1390)**

05 05 23 00-1392	EA	1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.04	
05 05 23 00-1393	EA	5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.06	
05 05 23 00-1394	EA	3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.12	
05 05 23 00-1395	EA	7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.18	
05 05 23 00-1396	EA	1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.26	
05 05 23 00-1397	EA	9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.29	
05 05 23 00-1398	EA	5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.49	
05 05 23 00-1399	EA	3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.71	
05 05 23 00-1400	EA	7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.84	
05 05 23 00-1401	EA	1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.03	
05 05 23 00-1402	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.17	
05 05 23 00-1403	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.40	
05 05 23 00-1404	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.19	
05 05 23 00-1405	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.25	
05 05 23 00-1406	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	3.32	
05 05 23 00-1407	EA	2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	4.13	

05 05 23 00-1408 Zinc Plated Steel, Hardened Flat Washers (05 05 23 00-1390)

05 05 23 00-1409	EA	1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.15	
05 05 23 00-1410	EA	5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.21	
05 05 23 00-1411	EA	3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.24	
05 05 23 00-1412	EA	7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.32	
05 05 23 00-1413	EA	1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.44	
05 05 23 00-1414	EA	9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.71	
05 05 23 00-1415	EA	5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.01	
05 05 23 00-1416	EA	3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.43	
05 05 23 00-1417	EA	7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	2.38	
05 05 23 00-1418	EA	1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	2.64	
05 05 23 00-1419	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	3.85	
05 05 23 00-1420	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	4.20	
05 05 23 00-1421	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	5.54	
05 05 23 00-1422	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	6.33	
05 05 23 00-1423	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	8.51	
05 05 23 00-1424	EA	2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	10.21	

05 05 23 00-1425 Hot Dipped Galvanized Steel Flat Washers (05 05 23 00-1390)

05 05 23 00-1426	EA	1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.10	
05 05 23 00-1427	EA	5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.14	
05 05 23 00-1428	EA	3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.16	
05 05 23 00-1429	EA	7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.30	
05 05 23 00-1430	EA	1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.38	
05 05 23 00-1431	EA	9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.62	
05 05 23 00-1432	EA	5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.70	
05 05 23 00-1433	EA	3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.06	
05 05 23 00-1434	EA	7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.49	
05 05 23 00-1435	EA	1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.63	
05 05 23 00-1436	EA	1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.50	
05 05 23 00-1437	EA	1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.78	
05 05 23 00-1438	EA	1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	3.97	
05 05 23 00-1439	EA	1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	4.30	
05 05 23 00-1440	EA	1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	6.24	

05 05 23 00-1441 304/18-8 Stainless Steel Flat Washers (05 05 23 00-1390)

05 05 23 00-1442	EA	1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.10	
05 05 23 00-1443	EA	5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.13	
05 05 23 00-1444	EA	3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.18	
05 05 23 00-1445	EA	7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.33	
05 05 23 00-1446	EA	1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.61	
05 05 23 00-1447	EA	9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.76	
05 05 23 00-1448	EA	5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	1.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1449 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	1.14	
05 05 23 00-1450 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	2.40	
05 05 23 00-1451 EA 1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	3.04	
05 05 23 00-1452 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	3.54	
05 05 23 00-1453 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	3.81	
05 05 23 00-1454 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	4.02	
05 05 23 00-1455 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	4.91	
05 05 23 00-1456 EA 1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	6.09	
05 05 23 00-1457 EA 2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	11.98	
05 05 23 00-1458 316 Stainless Steel Flat Washers <small>(05 05 23 00-1390)</small>		
05 05 23 00-1459 EA 1/4" Inside Diameter, 316 Stainless Steel Flat Washer	0.19	
05 05 23 00-1460 EA 5/16" Inside Diameter, 316 Stainless Steel Flat Washer	0.20	
05 05 23 00-1461 EA 3/8" Inside Diameter, 316 Stainless Steel Flat Washer	0.36	
05 05 23 00-1462 EA 7/16" Inside Diameter, 316 Stainless Steel Flat Washer	0.43	
05 05 23 00-1463 EA 1/2" Inside Diameter, 316 Stainless Steel Flat Washer	0.79	
05 05 23 00-1464 EA 9/16" Inside Diameter, 316 Stainless Steel Flat Washer	1.42	
05 05 23 00-1465 EA 5/8" Inside Diameter, 316 Stainless Steel Flat Washer	1.68	
05 05 23 00-1466 EA 3/4" Inside Diameter, 316 Stainless Steel Flat Washer	2.11	
05 05 23 00-1467 EA 7/8" Inside Diameter, 316 Stainless Steel Flat Washer	3.27	
05 05 23 00-1468 EA 1" Inside Diameter, 316 Stainless Steel Flat Washer	3.66	
05 05 23 00-1469 EA 1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer	4.16	
05 05 23 00-1470 EA 1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer	5.13	
05 05 23 00-1471 EA 1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer	5.42	
05 05 23 00-1472 EA 1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer	5.55	
05 05 23 00-1473 EA 1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer	8.13	
05 05 23 00-1474 Lock Washers <small>(05 05 23 00-1290)</small>		
05 05 23 00-1475 Zinc Plated Steel, Low Carbon Lock Washers <small>(05 05 23 00-1474)</small>		
05 05 23 00-1476 EA 1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.02	
05 05 23 00-1477 EA 5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.03	
05 05 23 00-1478 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.04	
05 05 23 00-1479 EA 7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.07	
05 05 23 00-1480 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.10	
05 05 23 00-1481 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.16	
05 05 23 00-1482 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.18	
05 05 23 00-1483 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.28	
05 05 23 00-1484 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.47	
05 05 23 00-1485 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.84	
05 05 23 00-1486 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.24	
05 05 23 00-1487 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.89	
05 05 23 00-1488 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	2.99	
05 05 23 00-1489 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	3.53	
05 05 23 00-1490 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	6.30	
05 05 23 00-1491 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	7.09	
05 05 23 00-1492 Hot Dipped Galvanized Steel Lock Washers <small>(05 05 23 00-1474)</small>		
05 05 23 00-1493 EA 1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.08	
05 05 23 00-1494 EA 5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.09	
05 05 23 00-1495 EA 3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.12	
05 05 23 00-1496 EA 7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.13	
05 05 23 00-1497 EA 1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.21	
05 05 23 00-1498 EA 9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.27	
05 05 23 00-1499 EA 5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.32	
05 05 23 00-1500 EA 3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.54	
05 05 23 00-1501 EA 7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.78	
05 05 23 00-1502 EA 1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.24	
05 05 23 00-1503 EA 1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	2.23	
05 05 23 00-1504 EA 1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	2.67	
05 05 23 00-1505 EA 1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	3.85	
05 05 23 00-1506 EA 1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	4.40	
05 05 23 00-1507 EA 1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	5.96	
05 05 23 00-1508 EA 2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	8.11	
05 05 23 00-1509 304/18-8 Stainless Steel Lock Washers <small>(05 05 23 00-1474)</small>		
05 05 23 00-1510 EA 1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.08	
05 05 23 00-1511 EA 5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.11	
05 05 23 00-1512 EA 3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.16	
05 05 23 00-1513 EA 7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.29	
05 05 23 00-1514 EA 1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.32	
05 05 23 00-1515 EA 9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.78	
05 05 23 00-1516 EA 5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.92	
05 05 23 00-1517 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.08	
05 05 23 00-1518 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.95	
05 05 23 00-1519 EA 1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	2.75	
05 05 23 00-1520 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	4.80	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1521 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	6.39	
05 05 23 00-1522 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	8.13	
05 05 23 00-1523 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	9.75	
05 05 23 00-1524 316 Stainless Steel Lock Washers (05 05 23 00-1474)		
05 05 23 00-1525 EA 1/4" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.10	
05 05 23 00-1526 EA 5/16" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.21	
05 05 23 00-1527 EA 3/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.25	
05 05 23 00-1528 EA 7/16" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.42	
05 05 23 00-1529 EA 1/2" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.47	
05 05 23 00-1530 EA 9/16" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.84	
05 05 23 00-1531 EA 5/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.92	
05 05 23 00-1532 EA 3/4" Inside Diameter, 316 Stainless Steel Lock Washer.....	1.58	
05 05 23 00-1533 EA 7/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	2.62	
05 05 23 00-1534 EA 1" Inside Diameter, 316 Stainless Steel Lock Washer.....	3.57	
05 05 23 00-1535 EA 1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	4.98	
05 05 23 00-1536 EA 1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer.....	7.66	
05 05 23 00-1537 EA 1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	13.71	
05 05 23 00-1538 EA 1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer.....	15.23	
05 05 23 00-1539 Load Indicating Washers (05 05 23 00-1290)		
05 05 23 00-1540 A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1539)		
05 05 23 00-1541 Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1540)		
05 05 23 00-1542 EA 1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.05	
05 05 23 00-1543 EA 5/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.33	
05 05 23 00-1544 EA 3/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.51	
05 05 23 00-1545 EA 7/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.85	
05 05 23 00-1546 EA 1", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.44	
05 05 23 00-1547 EA 1-1/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	5.72	
05 05 23 00-1548 EA 1-1/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	7.39	
05 05 23 00-1549 EA 1-3/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	9.43	
05 05 23 00-1550 EA 1-1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	10.37	
05 05 23 00-1551 Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1540)		
05 05 23 00-1552 EA 1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.60	
05 05 23 00-1553 EA 5/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.89	
05 05 23 00-1554 EA 3/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.81	
05 05 23 00-1555 EA 7/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.44	
05 05 23 00-1556 EA 1", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	4.07	
05 05 23 00-1557 EA 1-1/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	6.14	
05 05 23 00-1558 EA 1-1/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	7.73	
05 05 23 00-1559 EA 1-3/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	10.99	
05 05 23 00-1560 EA 1-1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	12.09	
05 05 23 00-1561 Beveled Washers (05 05 23 00-1290)		
05 05 23 00-1562 Plain Finish, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1561)		
05 05 23 00-1563 EA 1/2", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.39	
05 05 23 00-1564 EA 5/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.46	
05 05 23 00-1565 EA 3/4", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.54	
05 05 23 00-1566 EA 7/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.30	
05 05 23 00-1567 EA 1", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.53	
05 05 23 00-1568 Galvanized, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1561)		
05 05 23 00-1569 EA 1/2", Galvanized, Square Beveled Structural Washer (ASTM F436).....	4.88	
05 05 23 00-1570 EA 5/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.09	
05 05 23 00-1571 EA 3/4", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.09	
05 05 23 00-1572 EA 7/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.39	
05 05 23 00-1573 EA 1", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.73	
05 05 23 00-1574 Welded Stud Anchors (05 05 23)		
05 05 23 00-1575 EA 1/4" Diameter x 1-1/8" Long, Welded Stud Concrete Anchors.....	3.09	
05 05 23 00-1576 EA 1/4" Diameter x 2-11/16" Long, Welded Stud Concrete Anchors.....	3.15	
05 05 23 00-1577 EA 1/4" Diameter x 3-1/8" Long, Welded Stud Concrete Anchors.....	3.18	
05 05 23 00-1578 EA 1/4" Diameter x 4-1/8" Long, Welded Stud Concrete Anchors.....	3.20	
05 05 23 00-1579 EA 3/8" Diameter x 1-3/8" Long, Welded Stud Concrete Anchors.....	3.08	
05 05 23 00-1580 EA 3/8" Diameter x 1-5/8" Long, Welded Stud Concrete Anchors.....	3.23	
05 05 23 00-1581 EA 3/8" Diameter x 2-1/8" Long, Welded Stud Concrete Anchors.....	3.38	
05 05 23 00-1582 EA 3/8" Diameter x 2-5/8" Long, Welded Stud Concrete Anchors.....	3.46	
05 05 23 00-1583 EA 3/8" Diameter x 3-1/8" Long, Welded Stud Concrete Anchors.....	3.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1584 EA 3/8" Diameter x 4-1/8" Long, Welded Stud Concrete Anchors.....	3.84	
05 05 23 00-1585 EA 3/8" Diameter x 5-1/8" Long, Welded Stud Concrete Anchors.....	4.09	
05 05 23 00-1586 EA 3/8" Diameter x 6-1/8" Long, Welded Stud Concrete Anchors.....	4.29	
05 05 23 00-1587 EA 1/2" Diameter x 1-1/2" Long, Welded Stud Concrete Anchors.....	3.74	
05 05 23 00-1588 EA 1/2" Diameter x 1-5/8" Long, Welded Stud Concrete Anchors.....	3.76	
05 05 23 00-1589 EA 1/2" Diameter x 2-1/8" Long, Welded Stud Concrete Anchors.....	3.99	
05 05 23 00-1590 EA 1/2" Diameter x 2-5/8" Long, Welded Stud Concrete Anchors.....	4.21	
05 05 23 00-1591 EA 1/2" Diameter x 3-1/8" Long, Welded Stud Concrete Anchors.....	4.48	
05 05 23 00-1592 EA 1/2" Diameter x 4-1/8" Long, Welded Stud Concrete Anchors.....	4.90	
05 05 23 00-1593 EA 1/2" Diameter x 5-5/16" Long, Welded Stud Concrete Anchors.....	5.16	
05 05 23 00-1594 EA 1/2" Diameter x 6-1/8" Long, Welded Stud Concrete Anchors.....	5.90	
05 05 23 00-1595 EA 1/2" Diameter x 8-1/8" Long, Welded Stud Concrete Anchors.....	7.29	
05 05 23 00-1596 EA 5/8" Diameter x 2-11/16" Long, Welded Stud Concrete Anchors.....	5.23	
05 05 23 00-1597 EA 5/8" Diameter x 3-3/16" Long, Welded Stud Concrete Anchors.....	5.58	
05 05 23 00-1598 EA 5/8" Diameter x 3-11/16" Long, Welded Stud Concrete Anchors.....	5.86	
05 05 23 00-1599 EA 5/8" Diameter x 4-3/16" Long, Welded Stud Concrete Anchors.....	6.15	
05 05 23 00-1600 EA 5/8" Diameter x 4-11/16" Long, Welded Stud Concrete Anchors.....	6.38	
05 05 23 00-1601 EA 5/8" Diameter x 5-3/16" Long, Welded Stud Concrete Anchors.....	6.60	
05 05 23 00-1602 EA 5/8" Diameter x 6-3/16" Long, Welded Stud Concrete Anchors.....	6.89	
05 05 23 00-1603 EA 5/8" Diameter x 6-9/16" Long, Welded Stud Concrete Anchors.....	8.07	
05 05 23 00-1604 EA 5/8" Diameter x 8-3/16" Long, Welded Stud Concrete Anchors.....	9.71	
05 05 23 00-1605 Welded Shear Stud Connector (05 05 23)		
05 05 23 00-1606 3/4" Diameter Welded Shear Stud Connector (05 05 23 00-1605)		
05 05 23 00-1607 EA 3/4" Diameter x 3-3/16" Long, Welded Shear Stud Connector	6.64	
05 05 23 00-1608 EA 3/4" Diameter x 3-3/8" Long, Welded Shear Stud Connector	6.89	
05 05 23 00-1609 EA 3/4" Diameter x 3-7/8" Long, Welded Shear Stud Connector	6.96	
05 05 23 00-1610 EA 3/4" Diameter x 4-3/16" Long, Welded Shear Stud Connector	6.99	
05 05 23 00-1611 EA 3/4" Diameter x 4-3/8" Long, Welded Shear Stud Connector	7.28	
05 05 23 00-1612 EA 3/4" Diameter x 4-11/16" Long, Welded Shear Stud Connector	7.79	
05 05 23 00-1613 EA 3/4" Diameter x 4-7/8" Long, Welded Shear Stud Connector	12.83	
05 05 23 00-1614 EA 3/4" Diameter x 5-3/16" Long, Welded Shear Stud Connector	8.40	
05 05 23 00-1615 EA 3/4" Diameter x 5-3/8" Long, Welded Shear Stud Connector	9.32	
05 05 23 00-1616 EA 3/4" Diameter x 6-3/16" Long, Welded Shear Stud Connector	12.41	
05 05 23 00-1617 EA 3/4" Diameter x 7-3/16" Long, Welded Shear Stud Connector	12.69	
05 05 23 00-1618 EA 3/4" Diameter x 8-3/16" Long, Welded Shear Stud Connector	13.70	
05 05 23 00-1619 EA 3/4" Diameter x 10-3/16" Long, Welded Shear Stud Connector	17.92	
05 05 23 00-1620 7/8" Diameter Welded Shear Stud Connector (05 05 23 00-1605)		
05 05 23 00-1621 EA 7/8" Diameter x 3-3/16" Long, Welded Shear Stud Connector	7.90	
05 05 23 00-1622 EA 7/8" Diameter x 3-11/16" Long, Welded Shear Stud Connector	8.30	
05 05 23 00-1623 EA 7/8" Diameter x 4-3/16" Long, Welded Shear Stud Connector	8.70	
05 05 23 00-1624 EA 7/8" Diameter x 5-3/16" Long, Welded Shear Stud Connector	9.85	
05 05 23 00-1625 EA 7/8" Diameter x 6-3/16" Long, Welded Shear Stud Connector	13.03	
05 05 23 00-1626 EA 7/8" Diameter x 7-3/16" Long, Welded Shear Stud Connector	14.25	
05 05 23 00-1627 EA 7/8" Diameter x 8-3/16" Long, Welded Shear Stud Connector	15.45	
05 05 23 00-1628 EA 7/8" Diameter x 10-3/16" Long, Welded Shear Stud Connector	18.84	
05 05 23 00-1629 1" Diameter Welded Shear Stud Connector (05 05 23 00-1605)		
05 05 23 00-1630 EA 1" Diameter x 3-1/4" Long, Welded Shear Stud Connector	10.52	
05 05 23 00-1631 EA 1" Diameter x 4-1/4" Long, Welded Shear Stud Connector	11.76	
05 05 23 00-1632 EA 1" Diameter x 5-1/4" Long, Welded Shear Stud Connector	13.59	
05 05 23 00-1633 EA 1" Diameter x 6-1/4" Long, Welded Shear Stud Connector	17.60	
05 05 23 00-1634 EA 1" Diameter x 7-1/4" Long, Welded Shear Stud Connector	19.51	
05 05 23 00-1635 EA 1" Diameter x 8-1/4" Long, Welded Shear Stud Connector	21.41	
05 10 Structural Metal Framing (05)		
05 12 Structural Steel Framing (05 10)		
05 12 23 Structural Steel For Buildings (05 12)		
Note: Prices are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection. Excludes moment connection welding. See CSI section 05 12 23 00-0117 for field fabrication of additional structural metal connections, 05 12 23 00-0132 for moment connection welding.		
05 12 23 00-0001 Rolled Steel Members (05 12 23)		
05 12 23 00-0002 Beams, Girders And Columns (05 12 23 00-0001)		
Note: For one and two story I beams and W shapes and HP shapes.		
05 12 23 00-0003 TON Up To 30 LB/LF Beams, Girders And Columns	6,776.02	1,030.97
For ASTM A242 Type 2 High Strength Steel, Add		
For Hot Dip Galvanizing, Add		
	371.45	
	1,300.08	
05 12 23 00-0004 TON >30-65 LB/LF Beams, Girders And Columns	4,521.63	666.45
For ASTM A242 Type 2 High Strength Steel, Add		
For Hot Dip Galvanizing, Add		
	304.85	
	1,066.99	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0005 TON >65-100 LB/LF Beams, Girders And Columns..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	3,782.97 270.64 947.26	374.92
05 12 23 00-0006 TON >100-300 LB/LF Beams, Girders And Columns..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	2,526.01 185.02 647.56	199.56
05 12 23 00-0007 Trusses, Built-Up (05 12 23 00-0001)		
05 12 23 00-0008 TON Built-Up Trusses, Rolled Structural Steel Members..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	4,796.01 323.88 1,133.59	701.15
05 12 23 00-0009 Shapes (05 12 23 00-0001)		
05 12 23 00-0010 Rolled Shape Steel Angles (05 12 23 00-0009)		
05 12 23 00-0011 TON Up To 10 LB/LF Rolled Shape Steel Angles..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	9,899.66 536.43 1,877.50	1,916.57
05 12 23 00-0012 TON >10-20 LB/LF Rolled Shape Steel Angles..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	8,547.24 513.15 1,796.03	1,124.75
05 12 23 00-0013 TON >20-58 LB/LF Rolled Shape Steel Angles..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	6,353.47 451.41 1,579.94	666.45
05 12 23 00-0014 Rolled C, MC Steel Channels (05 12 23 00-0009)		
05 12 23 00-0015 TON Up To 10 LB/LF Rolled C, MC Steel Channels..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	10,998.79 528.33 1,849.16	2,624.41
05 12 23 00-0016 TON >10-20 LB/LF Rolled C, MC Steel Channels..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	8,458.68 506.07 1,771.23	1,999.55
05 12 23 00-0017 TON >20-58 LB/LF Rolled C, MC Steel Channels..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	6,252.26 443.31 1,551.60	666.45
05 12 23 00-0018 Double L Shape Steel Angles (05 12 23 00-0009)		
05 12 23 00-0019 TON Up To 20 LB/LF Double L Shape Steel Angles..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	9,114.25 516.19 1,806.66	1,520.66
05 12 23 00-0020 TON >20-50 LB/LF Double L Shape Steel Angles..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	6,783.63 485.82 1,700.38	666.45
05 12 23 00-0021 TON >50-80 LB/LF Double L Shape Steel Angles..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	5,081.02 374.49 1,310.71	374.92
05 12 23 00-0022 TON >80-115 LB/LF Double L Shape Steel Angles..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	3,249.35 242.91 850.19	199.85
05 12 23 00-0023 Structural WT, MT, ST Tee Shapes (05 12 23 00-0001)		
05 12 23 00-0024 TON Up To 30 LB/LF Structural WT, MT, ST Tee Shapes..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	8,205.65 485.82 1,700.38	1,124.75
05 12 23 00-0025 TON >30-65 LB/LF Structural WT, MT, ST Tee Shapes..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	5,354.10 371.45 1,300.08	666.45
05 12 23 00-0026 TON >65-100 LB/LF Structural WT, MT, ST Tee Shapes..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	4,195.40 303.64 1,062.74	374.92
05 12 23 00-0027 TON >100-365 LB/LF Structural WT, MT, ST Tee Shapes..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	3,072.56 228.74 800.60	199.56
05 12 23 00-0028 Combination Section Shapes (05 12 23 00-0001)		
05 12 23 00-0029 Combination Section, W Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0030 TON Up To 30 LB/LF Combination Section - W Shapes And Angles..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	7,813.44 454.45 1,590.56	1,124.75
05 12 23 00-0031 TON >30-65 LB/LF Combination Section - W Shapes And Angles..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	5,392.07 374.49 1,310.71	666.45
05 12 23 00-0032 TON >65-100 LB/LF Combination Section - W Shapes And Angles..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	3,879.11 278.34 974.18	374.92



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0033 TON >100-300 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	3,325.27 248.98 871.45	199.56
05 12 23 00-0034 TON >300-500 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	2,852.05 219.63 768.71	100.18
05 12 23 00-0035 Combination Section, S Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0036 TON >30-65 LB/LF Combination Section - S Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	5,189.63 358.29 1,254.03	666.45
05 12 23 00-0037 TON >65-100 LB/LF Combination Section - S Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	3,891.76 279.35 977.72	374.92
05 12 23 00-0038 Combination Section, Channels And Angles (05 12 23 00-0028)		
05 12 23 00-0039 TON Up To 30 LB/LF Combination Section - Channels And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	8,205.65 485.82 1,700.38	1,124.75
05 12 23 00-0040 TON >30-65 LB/LF Combination Section - Channels And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	5,645.09 394.73 1,381.56	666.45
05 12 23 00-0041 TON >65-100 LB/LF Combination Section - Channels And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	3,980.32 286.43 1,002.51	374.92
05 12 23 00-0042 Standard Weight Pipe (05 12 23 00-0001)		
05 12 23 00-0043 TON 1/2" To 5" Diameter Standard Weight Pipe <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	4,587.16 315.78 1,105.25	599.87
05 12 23 00-0044 TON >5" To 12" Diameter Standard Weight Pipe <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	4,924.25 329.95 1,154.84	749.83
05 12 23 00-0045 Structural Steel Shapes (05 12 23)		
05 12 23 00-0046 Steel Rods (05 12 23 00-0045)		
05 12 23 00-0047 TON 1/2" To 5" Diameter Extra Strong Steel, Solid <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	4,902.66 352.22 1,232.78	468.70
05 12 23 00-0048 TON >5" To 12" Diameter Extra Strong Steel, Solid <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	5,645.09 394.73 1,381.56	666.45
05 12 23 00-0049 Column Base Plates (05 12 23 00-0045)		
05 12 23 00-0050 LB Column Base Plates, Up To 150 LB / Each, A36 Miscellaneous Steel Items <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	2.56 0.15 0.53	0.63
05 12 23 00-0051 LB Column Base Plates, >150 LB / Each, A36 Miscellaneous Steel Items <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	2.40 0.14 0.50	0.54
05 12 23 00-0052 TON Column Base Plates, Up To 150 LB Each, A36 Miscellaneous Steel Items <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	4,513.24 313.09 1,095.82	562.14
05 12 23 00-0053 TON Column Base Plates, >150 LB Each, A36 Miscellaneous Steel Items <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	3,190.45 226.45 792.59	337.29
05 12 23 00-0054 Double Extra Strong Pipes (05 12 23 00-0045)		
05 12 23 00-0055 TON 2" To 5" Diameter Double Extra Strong Pipe <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	5,949.43 402.83 1,409.90	856.91
05 12 23 00-0056 TON >5" To 8" Diameter Double Extra Strong Pipe <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	5,527.55 402.83 1,409.90	461.39
05 12 23 00-0057 Structural Pipes (05 12 23 00-0045)		
05 12 23 00-0058 TON 3" To 5" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	4,151.62 283.40 991.89	395.91
05 12 23 00-0059 TON >5" To 12" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	4,549.80 283.40 991.89	456.60
05 12 23 00-0060 Structural Tubing (05 12 23 00-0045)		

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0061			Rectangle Structural Tubing (05 12 23 00-0060)		
05 12 23 00-0062	TON		3" x 2" Weight Range 5-7 LB/LF Structural Tubing - Rectangle.....	6,752.40	399.91
			For ASTM A242 Type 2 High Strength Steel, Add	506.07	
			For Hot Dip Galvanizing, Add	1,771.23	
05 12 23 00-0063	TON		4" x 3", 2" Weight Range 6-13 LB/LF Structural Tubing - Rectangle.....	6,818.02	461.39
			For ASTM A242 Type 2 High Strength Steel, Add	506.07	
			For Hot Dip Galvanizing, Add	1,771.23	
05 12 23 00-0064	TON		5" x 4", 2" Weight Range 8-20 LB/LF Structural Tubing - Rectangle.....	5,973.41	499.89
			For ASTM A242 Type 2 High Strength Steel, Add	435.22	
			For Hot Dip Galvanizing, Add	1,523.26	
05 12 23 00-0065	TON		6" x 4", 3", 2" Weight Range 9-29 LB/LF Structural Tubing - Rectangle.....	5,700.51	599.87
			For ASTM A242 Type 2 High Strength Steel, Add	404.85	
			For Hot Dip Galvanizing, Add	1,416.98	
05 12 23 00-0066	TON		7" x 5", 4", 3" Weight Range 12-35 LB/LF Structural Tubing - Rectangle.....	5,392.06	666.45
			For ASTM A242 Type 2 High Strength Steel, Add	374.49	
			For Hot Dip Galvanizing, Add	1,310.71	
05 12 23 00-0067	TON		8" x 6", 4", 3", 2" Weight Range 11-42 LB/LF Structural Tubing - Rectangle.....	5,664.90	922.30
			For ASTM A242 Type 2 High Strength Steel, Add	374.49	
			For Hot Dip Galvanizing, Add	1,310.71	
05 12 23 00-0068	TON		10" x 6", 4", 2" Weight Range 15-50 LB/LF Structural Tubing - Rectangle.....	6,082.84	1,219.23
			For ASTM A242 Type 2 High Strength Steel, Add	382.59	
			For Hot Dip Galvanizing, Add	1,339.05	
05 12 23 00-0069	TON		12" x 6", 4", 2" Weight Range 17-76 LB/LF Structural Tubing - Rectangle.....	6,253.58	1,331.80
			For ASTM A242 Type 2 High Strength Steel, Add	386.63	
			For Hot Dip Galvanizing, Add	1,353.22	
05 12 23 00-0070	TON		14" x 10", 6", 4" Weight Range 29-76 LB/LF Structural Tubing - Rectangle.....	6,432.57	1,499.67
			For ASTM A242 Type 2 High Strength Steel, Add	386.63	
			For Hot Dip Galvanizing, Add	1,353.22	
05 12 23 00-0071	TON		16" x 12", 8", 4" Weight Range 40-90 LB/LF Structural Tubing - Rectangle.....	8,142.92	3,150.60
			For ASTM A242 Type 2 High Strength Steel, Add	382.59	
			For Hot Dip Galvanizing, Add	1,339.05	
05 12 23 00-0072	TON		18" x 6" Weight Range 48-76 LB/LF Structural Tubing - Rectangle.....	6,788.66	1,999.55
			For ASTM A242 Type 2 High Strength Steel, Add	372.46	
			For Hot Dip Galvanizing, Add	1,303.62	
05 12 23 00-0073	TON		20" x 12", 8", 4" Weight Range 48-105 LB/LF Structural Tubing - Rectangle.....	9,815.72	4,600.28
			For ASTM A242 Type 2 High Strength Steel, Add	392.71	
			For Hot Dip Galvanizing, Add	1,374.48	
05 12 23 00-0074			Square Structural Tubing (05 12 23 00-0060)		
05 12 23 00-0075	TON		2" x 2" Weight Range 4-6 LB/LF Structural Tubing - Square.....	6,725.73	374.92
			For ASTM A242 Type 2 High Strength Steel, Add	506.07	
			For Hot Dip Galvanizing, Add	1,771.23	
05 12 23 00-0076	TON		2.5" x 2.5" Weight Range 5-8 LB/LF Structural Tubing - Square.....	6,752.40	399.91
			For ASTM A242 Type 2 High Strength Steel, Add	506.07	
			For Hot Dip Galvanizing, Add	1,771.23	
05 12 23 00-0077	TON		3" x 3" Weight Range 6-11 LB/LF Structural Tubing - Square.....	6,099.93	499.89
			For ASTM A242 Type 2 High Strength Steel, Add	445.34	
			For Hot Dip Galvanizing, Add	1,558.68	
05 12 23 00-0078	TON		3.5" x 3.5" Weight Range 8-13 LB/LF Structural Tubing - Square.....	6,080.05	599.87
			For ASTM A242 Type 2 High Strength Steel, Add	435.22	
			For Hot Dip Galvanizing, Add	1,523.26	
05 12 23 00-0079	TON		4" x 4" Weight Range 10-22 LB/LF Structural Tubing - Square.....	4,949.56	749.83
			For ASTM A242 Type 2 High Strength Steel, Add	331.98	
			For Hot Dip Galvanizing, Add	1,161.93	
05 12 23 00-0080	TON		5" x 5" Weight Range 12-30 LB/LF Structural Tubing - Square.....	5,063.82	856.91
			For ASTM A242 Type 2 High Strength Steel, Add	331.98	
			For Hot Dip Galvanizing, Add	1,161.93	
05 12 23 00-0081	TON		6" x 6" Weight Range 15-35 LB/LF Structural Tubing - Square.....	5,429.46	1,199.73
			For ASTM A242 Type 2 High Strength Steel, Add	331.98	
			For Hot Dip Galvanizing, Add	1,161.93	
05 12 23 00-0082	TON		7" x 7" Weight Range 17-42 LB/LF Structural Tubing - Square.....	5,825.29	1,499.67
			For ASTM A242 Type 2 High Strength Steel, Add	338.05	
			For Hot Dip Galvanizing, Add	1,183.18	
05 12 23 00-0083	TON		8" x 8" Weight Range 20-60 LB/LF Structural Tubing - Square.....	7,041.70	1,999.55
			For ASTM A242 Type 2 High Strength Steel, Add	392.71	
			For Hot Dip Galvanizing, Add	1,374.48	
05 12 23 00-0084	TON		10" x 10" Weight Range 33-77 LB/LF Structural Tubing - Square.....	8,108.14	2,999.33
			For ASTM A242 Type 2 High Strength Steel, Add	392.71	
			For Hot Dip Galvanizing, Add	1,374.48	
05 12 23 00-0085	TON		12" x 12" Weight Range 40-80 LB/LF Structural Tubing - Square.....	7,980.68	3,520.32
			For ASTM A242 Type 2 High Strength Steel, Add	338.05	
			For Hot Dip Galvanizing, Add	1,183.18	
05 12 23 00-0086	TON		14" x 14" Weight Range 57-90 LB/LF Structural Tubing - Square.....	9,714.50	4,600.28
			For ASTM A242 Type 2 High Strength Steel, Add	384.61	
			For Hot Dip Galvanizing, Add	1,346.13	
05 12 23 00-0087	TON		16" x 16" Weight Range 65-105 LB/LF Structural Tubing - Square.....	11,307.42	5,998.67
			For ASTM A242 Type 2 High Strength Steel, Add	392.71	
			For Hot Dip Galvanizing, Add	1,374.48	
05 12 23 00-0088			Structural Shapes (05 12 23 00-0045)		



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0089 TON Structural Shapes, Steel Angle A36 Structural Steel, Purlins And Girts (Up To 20 LB/LF).....	7,067.02	2,248.55
<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	279.83	
<i>For Hot Dip Galvanizing, Add</i>	979.41	
<i>For >20 To 50 LB/LF, Deduct</i>	-885.16	
<i>For >50 To 75 LB/LF, Deduct</i>	-1,416.97	
<i>For >75 To 100 LB/LF, Deduct</i>	-1,948.77	
05 12 23 00-0090 TON Structural Shapes, Steel Plate A36 Structural Steel	5,244.65	899.42
Note: Up to 21.5 LB per SF		
<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	323.89	
<i>For Hot Dip Galvanizing, Add</i>	1,133.61	
<i>For >21.5 To 50 LB/LF, Deduct</i>	-584.27	
05 12 23 00-0091 LB Structural Shapes, Primed Pipe Supports (Up To 20 LB/LF)	3.03	0.20
05 12 23 00-0092 LB Structural Shapes, Galvanized Pipe Supports	3.66	0.20
05 12 23 00-0093 Built-Up Trusses (05 12 23 00-0045)		
05 12 23 00-0094 TON Up To 50 LF Span Average Weight 100 LB/LF Trusses, Built-up.....	5,469.15	299.94
05 12 23 00-0095 TON >50-100 LF Span Average Weight 120 LB/LF Trusses, Built-up	5,377.56	166.57
05 12 23 00-0096 TON >100-200 LF Span Average Weight 150 LB/LF Trusses, Built-up	4,775.21	88.18
05 12 23 00-0097 TON >200 LF Span Average Weight 180 LB/LF Trusses, Built-up	4,643.46	83.38
05 12 23 00-0098 Masonry Plates, Filler Plates, Sole Plates And Anchor Straps (05 12 23 00-0045)		
Note: Includes shop fabrication, welds, drilling and shop primer.		
05 12 23 00-0099 SF 1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	19.69	6.48
05 12 23 00-0100 SF 3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	29.55	9.68
05 12 23 00-0101 SF 1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	39.40	12.91
05 12 23 00-0102 SF 5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	49.25	16.14
05 12 23 00-0103 SF 3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	59.10	19.27
05 12 23 00-0104 SF 7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	68.95	22.59
05 12 23 00-0105 SF 1" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	78.79	25.82
05 12 23 00-0106 SF 1-1/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	88.65	29.05
05 12 23 00-0107 SF 1-1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	98.50	32.28
05 12 23 00-0108 SF 1-3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	108.34	35.51
05 12 23 00-0109 SF 1-1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	118.19	38.73
05 12 23 00-0110 SF 1-5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	128.04	41.96
05 12 23 00-0111 SF 1-3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	137.88	45.19
05 12 23 00-0112 SF 1-7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	147.75	48.42
05 12 23 00-0113 SF 2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	157.60	51.65
05 12 23 00-0114 Accessories For Steel (05 12 23)		
05 12 23 00-0115 Field Painting For Touch-Up Of Shop Prime Coat (05 12 23 00-0114)		
05 12 23 00-0116 SF Touch Up Paint - Type 1 Red Oxide Field Painting Prime Coat.....	0.77	
05 12 23 00-0117 Connection And Stiffener Plates (05 12 23 00-0114)		
Note: For field fabrication of additional structural metal connections.		
05 12 23 00-0118 TON 1/8" Plate Weight 6.16 LB/SF Connection And Stiffener Plates.....	11,687.94	
05 12 23 00-0119 TON 3/16" Plate Weight 8.71 LB/SF Connection And Stiffener Plates.....	9,972.10	
05 12 23 00-0120 TON 1/4" Plate Weight 11.26 LB/SF Connection And Stiffener Plates.....	7,711.63	
05 12 23 00-0121 TON 5/16" Plate Weight 13.81 LB/SF Connection And Stiffener Plates.....	7,711.63	
05 12 23 00-0122 TON 3/8" Plate Weight 16.37 LB/SF Connection And Stiffener Plates.....	7,711.63	
05 12 23 00-0123 TON 1/2" Plate Weight 21.47 LB/SF Connection And Stiffener Plates.....	7,711.63	
05 12 23 00-0124 TON 9/16" Plate Weight 24.02 LB/SF Connection And Stiffener Plates.....	7,711.63	
05 12 23 00-0125 TON 5/8" Plate Weight 26.58 LB/SF Connection And Stiffener Plates.....	7,711.63	
05 12 23 00-0126 TON 3/4" Plate Weight 31.68 LB/SF Connection And Stiffener Plates.....	7,229.65	
05 12 23 00-0127 TON 7/8" Plate Weight 36.78 LB/SF Connection And Stiffener Plates.....	7,229.65	
05 12 23 00-0128 TON 1" Plate Weight 41.89 LB/SF Connection And Stiffener Plates.....	7,229.65	
05 12 23 00-0129 Spot Welding (05 12 23 00-0114)		
See CSI section 05 12 23 00-0132 for a series of welds.		
05 12 23 00-0130 EA Up To 15 Spot Weldings, Welds Up To 1" Length Each.....	10.04	
<i>For Aluminum Welding, Add</i>	1.55	
<i>For Stainless Steel Welding, Add</i>	2.56	
05 12 23 00-0131 EA >15 Spot Weldings, Welds Up To 1" Length Each.....	7.82	
<i>For Aluminum Welding, Add</i>	1.22	
<i>For Stainless Steel Welding, Add</i>	2.01	
05 12 23 00-0132 Field Welding (Seam And Stitch Welding) (05 12 23 00-0114)		
05 12 23 00-0133 Vertical Fillet Welds (05 12 23 00-0132)		
Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 12 23 00-0134 LF 1/8" Vertical Fillet Weld.....	6.22	
<i>For Aluminum Welding, Add</i>	1.14	
<i>For Stainless Steel Welding, Add</i>	1.82	
<i>For Up To 25, Add</i>	2.09	
<i>For >25 To 50, Add</i>	1.49	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0135	LF		3/16" Vertical Fillet Weld.....	12.18	
			For Aluminum Welding, Add	2.09	
			For Stainless Steel Welding, Add	3.38	
			For Up To 25, Add	4.15	
			For >25 To 50, Add	2.96	
05 12 23 00-0136	LF		1/4" Vertical Fillet Weld.....	18.28	
			For Aluminum Welding, Add	3.14	
			For Stainless Steel Welding, Add	5.07	
			For Up To 25, Add	6.23	
			For >25 To 50, Add	4.44	
05 12 23 00-0137	LF		5/16" Vertical Fillet Weld.....	24.10	
			For Aluminum Welding, Add	4.15	
			For Stainless Steel Welding, Add	6.69	
			For Up To 25, Add	8.21	
			For >25 To 50, Add	5.85	
05 12 23 00-0138	LF		3/8" Vertical Fillet Weld.....	30.46	
			For Aluminum Welding, Add	5.23	
			For Stainless Steel Welding, Add	8.44	
			For Up To 25, Add	10.39	
			For >25 To 50, Add	7.40	
05 12 23 00-0139	LF		7/16" Vertical Fillet Weld.....	35.65	
			For Aluminum Welding, Add	5.87	
			For Stainless Steel Welding, Add	9.57	
			For Up To 25, Add	12.26	
			For >25 To 50, Add	8.74	
05 12 23 00-0140	LF		1/2" Vertical Fillet Weld.....	41.64	
			For Aluminum Welding, Add	7.17	
			For Stainless Steel Welding, Add	11.57	
			For Up To 25, Add	14.19	
			For >25 To 50, Add	10.10	
05 12 23 00-0141	LF		9/16" Vertical Fillet Weld.....	48.91	
			For Aluminum Welding, Add	8.16	
			For Stainless Steel Welding, Add	13.26	
			For Up To 25, Add	16.77	
			For >25 To 50, Add	11.95	
05 12 23 00-0142	LF		5/8" Vertical Fillet Weld.....	56.68	
			For Aluminum Welding, Add	9.48	
			For Stainless Steel Welding, Add	15.39	
			For Up To 25, Add	19.43	
			For >25 To 50, Add	13.84	
05 12 23 00-0143	LF		3/4" Vertical Fillet Weld.....	76.21	
			For Aluminum Welding, Add	13.11	
			For Stainless Steel Welding, Add	21.15	
			For Up To 25, Add	25.97	
			For >25 To 50, Add	18.49	
05 12 23 00-0144	LF		7/8" Vertical Fillet Weld.....	113.23	
			For Aluminum Welding, Add	18.86	
			For Stainless Steel Welding, Add	30.65	
			For Up To 25, Add	38.85	
			For >25 To 50, Add	27.68	
05 12 23 00-0145	LF		1" Vertical Fillet Weld.....	152.04	
			For Aluminum Welding, Add	25.94	
			For Stainless Steel Welding, Add	41.93	
			For Up To 25, Add	51.91	
			For >25 To 50, Add	36.96	
05 12 23 00-0146			Horizontal Or Flat Fillet Welds <small>(05 12 23 00-0132)</small>		
			Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 12 23 00-0147	LF		1/8" Horizontal Or Flat Fillet Weld.....	5.22	
			For Aluminum Welding, Add	0.99	
			For Stainless Steel Welding, Add	1.57	
			For Up To 25, Add	1.74	
			For >25 To 50, Add	1.24	
05 12 23 00-0148	LF		3/16" Horizontal Or Flat Fillet Weld.....	10.27	
			For Aluminum Welding, Add	1.82	
			For Stainless Steel Welding, Add	2.91	
			For Up To 25, Add	3.48	
			For >25 To 50, Add	2.48	
05 12 23 00-0149	LF		1/4" Horizontal Or Flat Fillet Weld.....	15.37	
			For Aluminum Welding, Add	2.72	
			For Stainless Steel Welding, Add	4.36	
			For Up To 25, Add	5.21	
			For >25 To 50, Add	3.70	
05 12 23 00-0150	LF		5/16" Horizontal Or Flat Fillet Weld.....	20.30	
			For Aluminum Welding, Add	3.61	
			For Stainless Steel Welding, Add	5.78	
			For Up To 25, Add	6.87	
			For >25 To 50, Add	4.89	
05 12 23 00-0151	LF		3/8" Horizontal Or Flat Fillet Weld.....	25.65	
			For Aluminum Welding, Add	4.54	
			For Stainless Steel Welding, Add	7.28	
			For Up To 25, Add	8.69	
			For >25 To 50, Add	6.18	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0152 LF 7/16" Horizontal Or Flat Fillet Weld.....	29.92	
For Aluminum Welding, Add	5.04	
For Stainless Steel Welding, Add	8.17	
For Up To 25, Add	10.24	
For >25 To 50, Add	7.30	
05 12 23 00-0153 LF 1/2" Horizontal Or Flat Fillet Weld.....	35.01	
For Aluminum Welding, Add	6.22	
For Stainless Steel Welding, Add	9.96	
For Up To 25, Add	11.85	
For >25 To 50, Add	8.43	
05 12 23 00-0154 LF 9/16" Horizontal Or Flat Fillet Weld.....	41.10	
For Aluminum Welding, Add	7.05	
For Stainless Steel Welding, Add	11.38	
For Up To 25, Add	14.02	
For >25 To 50, Add	9.98	
05 12 23 00-0155 LF 5/8" Horizontal Or Flat Fillet Weld.....	47.78	
For Aluminum Welding, Add	8.31	
For Stainless Steel Welding, Add	13.37	
For Up To 25, Add	16.25	
For >25 To 50, Add	11.57	
05 12 23 00-0156 LF 3/4" Horizontal Or Flat Fillet Weld.....	64.13	
For Aluminum Welding, Add	11.38	
For Stainless Steel Welding, Add	18.23	
For Up To 25, Add	21.71	
For >25 To 50, Add	15.45	
05 12 23 00-0157 LF 7/8" Horizontal Or Flat Fillet Weld.....	94.67	
For Aluminum Welding, Add	15.95	
For Stainless Steel Welding, Add	25.85	
For Up To 25, Add	32.41	
For >25 To 50, Add	23.09	
05 12 23 00-0158 LF 1" Horizontal Or Flat Fillet Weld.....	127.51	
For Aluminum Welding, Add	22.41	
For Stainless Steel Welding, Add	35.99	
For Up To 25, Add	43.26	
For >25 To 50, Add	30.78	
05 12 23 00-0159 Cold Galvanizing (05 12 23 00-0114)		
05 12 23 00-0160 SF Brush Applied Cold Galvanizing	1.59	
05 12 23 00-0161 Metal Grinding (05 12 23 00-0114)		
Note: For use to prepare existing metal for welding by removing of rust or scale and smoothing surface after torch cutting.		
05 12 23 00-0162 SI Metal Grinding Up To 1/32" Thickness To Be Removed.....	0.87	
Note: Includes rust or scale removal on metal and smoothing surface.		
05 12 23 00-0163 Structural Steel For Buildings And Structures (05 12 23)		
05 12 23 00-0164 First Tier A992/A36 Structural Steel Columns, W Shapes (05 12 23 00-0163)		
Note: With base plate. Includes material delivery and erection.		
05 12 23 00-0165 LF W14 x 730 A992/A36 Structural Column	1,110.22	62.37
For High Strength Low Alloy A572-50 Steel, Add	99.92	
For High Strength Low Alloy A588 Grade B Steel, Add	222.04	
05 12 23 00-0166 LF W14 x 665 A992/A36 Structural Column	1,012.77	58.13
For High Strength Low Alloy A572-50 Steel, Add	91.15	
For High Strength Low Alloy A588 Grade B Steel, Add	202.55	
05 12 23 00-0167 LF W14 x 605 A992/A36 Structural Column	922.70	54.10
For High Strength Low Alloy A572-50 Steel, Add	83.04	
For High Strength Low Alloy A588 Grade B Steel, Add	184.54	
05 12 23 00-0168 LF W14 x 550 A992/A36 Structural Column	840.04	50.33
For High Strength Low Alloy A572-50 Steel, Add	75.60	
For High Strength Low Alloy A588 Grade B Steel, Add	168.01	
05 12 23 00-0169 LF W14 x 500 A992/A36 Structural Column	770.36	51.99
For High Strength Low Alloy A572-50 Steel, Add	69.33	
For High Strength Low Alloy A588 Grade B Steel, Add	154.07	
05 12 23 00-0170 LF W14 x 426 A992/A36 Structural Column	657.46	45.39
For High Strength Low Alloy A572-50 Steel, Add	59.17	
For High Strength Low Alloy A588 Grade B Steel, Add	131.49	
05 12 23 00-0171 LF W14 x 342 A992/A36 Structural Column	532.06	39.30
For High Strength Low Alloy A572-50 Steel, Add	47.89	
For High Strength Low Alloy A588 Grade B Steel, Add	106.41	
05 12 23 00-0172 LF W14 x 311 A992/A36 Structural Column	479.44	36.69
For High Strength Low Alloy A572-50 Steel, Add	43.15	
For High Strength Low Alloy A588 Grade B Steel, Add	95.89	
05 12 23 00-0173 LF W14 x 283 A992/A36 Structural Column	435.38	34.59
For High Strength Low Alloy A572-50 Steel, Add	39.18	
For High Strength Low Alloy A588 Grade B Steel, Add	87.08	
05 12 23 00-0174 LF W14 x 257 A992/A36 Structural Column	383.09	32.79
For High Strength Low Alloy A572-50 Steel, Add	34.48	
For High Strength Low Alloy A588 Grade B Steel, Add	76.62	
05 12 23 00-0175 LF W14 x 233 A992/A36 Structural Column	352.60	30.50
For High Strength Low Alloy A572-50 Steel, Add	31.73	
For High Strength Low Alloy A588 Grade B Steel, Add	70.52	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0176	LF		W14 x 211 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	313.84 28.25 62.77	28.39
05 12 23 00-0177	LF		W14 x 193 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	284.08 25.57 56.82	27.00
05 12 23 00-0178	LF		W14 x 176 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	256.28 23.07 51.26	25.79
05 12 23 00-0179	LF		W14 x 159 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	231.97 20.88 46.39	24.89
05 12 23 00-0180	LF		W14 x 145 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	224.20 20.18 44.84	24.09
05 12 23 00-0181	LF		W14 x 132 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	192.11 17.29 38.42	22.99
05 12 23 00-0182	LF		W14 x 120 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	180.28 16.23 36.06	22.40
05 12 23 00-0183	LF		W14 x 109 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	161.65 14.55 32.33	21.50
05 12 23 00-0184	LF		W14 x 99 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	147.71 13.29 29.54	20.90
05 12 23 00-0185	LF		W14 x 90 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	137.39 12.37 27.48	20.40
05 12 23 00-0186	LF		W14 x 82 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	126.74 11.41 25.35	19.80
05 12 23 00-0187	LF		W14 x 74 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	114.65 10.32 22.93	19.30
05 12 23 00-0188	LF		W14 x 68 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	107.26 9.65 21.45	18.99
05 12 23 00-0189	LF		W14 x 61 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	98.01 8.82 19.60	18.50
05 12 23 00-0190	LF		W14 x 53 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	89.46 8.05 17.89	18.00
05 12 23 00-0191	LF		W14 x 48 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	83.96 7.56 16.79	17.69
05 12 23 00-0192	LF		W14 x 43 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	75.99 6.84 15.20	17.40
05 12 23 00-0193	LF		W12 x 336 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	506.15 45.55 101.23	27.77
05 12 23 00-0194	LF		W12 x 305 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	461.59 41.54 92.32	27.23
05 12 23 00-0195	LF		W12 x 279 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	424.37 38.19 84.87	26.90
05 12 23 00-0196	LF		W12 x 252 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	385.35 34.68 77.07	26.22
05 12 23 00-0197	LF		W12 x 230 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	353.75 31.84 70.75	25.84
05 12 23 00-0198	LF		W12 x 210 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	325.00 29.25 65.00	25.48
05 12 23 00-0199	LF		W12 x 190 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	298.96 26.91 59.79	27.59
05 12 23 00-0200	LF		W12 x 170 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	270.45 24.34 54.09	26.80
05 12 23 00-0201	LF		W12 x 152 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	243.92 21.95 48.78	24.89
05 12 23 00-0202	LF		W12 x 136 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	231.97 20.88 46.39	24.20
05 12 23 00-0203	LF		W12 x 120 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	176.27 15.86 35.25	22.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0204 LF W12 x 106 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	162.59 14.63 32.52	21.50
05 12 23 00-0205 LF W12 x 96 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	145.71 13.11 29.14	20.79
05 12 23 00-0206 LF W12 x 87 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	134.59 12.11 26.92	20.09
05 12 23 00-0207 LF W12 x 79 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	118.39 10.66 23.68	19.50
05 12 23 00-0208 LF W12 x 72 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	108.54 9.77 21.71	18.99
05 12 23 00-0209 LF W12 x 65 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	99.41 8.95 19.88	18.59
05 12 23 00-0210 LF W12 x 58 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	96.25 8.66 19.25	18.40
05 12 23 00-0211 LF W12 x 53 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	89.46 8.05 17.89	18.00
05 12 23 00-0212 LF W12 x 50 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	86.76 7.81 17.35	17.89
05 12 23 00-0213 LF W12 x 45 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	79.03 7.11 15.81	17.50
05 12 23 00-0214 LF W12 x 40 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	71.05 6.39 14.21	17.10
05 12 23 00-0215 LF W10 x 112 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	169.98 15.30 34.00	21.89
05 12 23 00-0216 LF W10 x 110 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	153.94 13.85 30.79	20.99
05 12 23 00-0217 LF W10 x 88 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	138.58 12.47 27.72	20.29
05 12 23 00-0218 LF W10 x 77 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	123.48 11.11 24.70	19.50
05 12 23 00-0219 LF W10 x 68 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	111.40 10.03 22.28	18.99
05 12 23 00-0220 LF W10 x 60 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	98.01 8.82 19.60	18.50
05 12 23 00-0221 LF W10 x 54 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	97.34 8.76 19.47	18.20
05 12 23 00-0222 LF W10 x 49 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	85.71 7.71 17.14	17.89
05 12 23 00-0223 LF W10 x 45 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	82.79 7.45 16.56	17.60
05 12 23 00-0224 LF W10 x 39 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	72.34 6.51 14.47	17.30
05 12 23 00-0225 LF W10 x 33 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	63.31 5.70 12.66	16.79
05 12 23 00-0226 LF W8 x 67 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	107.38 9.66 21.48	18.99
05 12 23 00-0227 LF W8 x 58 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	96.61 8.69 19.32	18.40
05 12 23 00-0228 LF W8 x 48 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	86.65 7.80 17.33	17.89
05 12 23 00-0229 LF W8 x 40 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	74.69 6.72 14.94	17.40
05 12 23 00-0230 LF W8 x 35 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	67.65 6.09 13.53	16.99
05 12 23 00-0231 LF W8 x 31 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	62.01 5.58 12.40	16.79

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0232	LF		W8 x 28 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	58.50 5.27 11.70	16.59
05 12 23 00-0233	LF		W8 x 24 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	54.29 4.89 10.86	16.39
05 12 23 00-0234	LF		W8 x 21 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	51.49 4.63 10.30	16.30
05 12 23 00-0235	LF		W8 x 18 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	46.20 4.16 9.24	16.00
05 12 23 00-0236	LF		W6 x 25 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	56.89 5.12 11.38	16.39
05 12 23 00-0237	LF		W6 x 20 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	48.42 4.36 9.68	16.10
05 12 23 00-0238	LF		W6 x 15 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	41.78 3.76 8.36	15.60
05 12 23 00-0239	LF		W6 x 12 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	39.29 3.54 7.86	15.60
05 12 23 00-0240	LF		W6 x 9 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	36.11 3.25 7.22	15.49
05 12 23 00-0241	LF		W5 x 19 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	47.71 4.29 9.54	16.10
05 12 23 00-0242	LF		W5 x 16 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	44.08 3.97 8.82	16.00
05 12 23 00-0243	LF		W4 x 13 A992/A36 Structural Column <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	41.39 3.73 8.28	15.80
05 12 23 00-0244			A992/A36 Structural Steel Beams And Girders, W Shapes (05 12 23 00-0163) Note: Includes material delivery and erection.		
05 12 23 00-0245	LF		W36 x 300 A992/A36 Structural Beam Or Girder..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	376.65 33.90 75.33 3.04 -120.90 45.20	68.30
05 12 23 00-0246	LF		W36 x 280 A992/A36 Structural Beam Or Girder..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	363.53 32.72 72.71 2.84 -115.24 43.62	74.99
05 12 23 00-0247	LF		W36 x 260 A992/A36 Structural Beam Or Girder..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	344.90 31.04 68.98 2.66 -108.87 41.39	74.09
05 12 23 00-0248	LF		W36 x 240 A992/A36 Structural Beam Or Girder..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	322.75 29.05 64.55 2.53 -102.43 38.73	65.83
05 12 23 00-0249	LF		W36 x 230 A992/A36 Structural Beam Or Girder..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	313.23 28.19 62.65 2.42 -98.95 37.59	66.76
05 12 23 00-0250	LF		W36 x 210 A992/A36 Structural Beam Or Girder..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	297.45 26.77 59.49 2.21 -92.64 35.69	71.69
05 12 23 00-0251	LF		W36 x 194 A992/A36 Structural Beam Or Girder..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	281.52 25.34 56.30 2.13 -88.32 33.78	63.85



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0252	LF		W36 x 182 A992/A36 Structural Beam Or Girder	267.83	63.38
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	24.10	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	53.57	
			<i>For Each Additional Top Copes >2, Add</i>	2.00	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-83.60	
			<i>For Skewed Or Sloped Connections, Add</i>	32.14	
05 12 23 00-0253	LF		W36 x 170 A992/A36 Structural Beam Or Girder	253.84	62.66
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.85	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	50.77	
			<i>For Each Additional Top Copes >2, Add</i>	1.87	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-78.82	
			<i>For Skewed Or Sloped Connections, Add</i>	30.46	
05 12 23 00-0254	LF		W36 x 160 A992/A36 Structural Beam Or Girder	250.00	69.38
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.50	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	50.00	
			<i>For Each Additional Top Copes >2, Add</i>	1.76	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-76.40	
			<i>For Skewed Or Sloped Connections, Add</i>	30.00	
05 12 23 00-0255	LF		W36 x 150 A992/A36 Structural Beam Or Girder	240.28	68.88
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	21.63	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	48.06	
			<i>For Each Additional Top Copes >2, Add</i>	1.67	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-73.07	
			<i>For Skewed Or Sloped Connections, Add</i>	28.83	
05 12 23 00-0256	LF		W36 x 135 A992/A36 Structural Beam Or Girder	226.69	68.28
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	20.40	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	45.34	
			<i>For Each Additional Top Copes >2, Add</i>	1.54	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-68.42	
			<i>For Skewed Or Sloped Connections, Add</i>	27.20	
05 12 23 00-0257	LF		W33 x 241 A992/A36 Structural Beam Or Girder	327.15	67.90
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	29.44	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	65.43	
			<i>For Each Additional Top Copes >2, Add</i>	2.55	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-103.64	
			<i>For Skewed Or Sloped Connections, Add</i>	39.26	
05 12 23 00-0258	LF		W33 x 221 A992/A36 Structural Beam Or Girder	304.24	66.23
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	27.38	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	60.85	
			<i>For Each Additional Top Copes >2, Add</i>	2.34	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-95.89	
			<i>For Skewed Or Sloped Connections, Add</i>	36.51	
05 12 23 00-0259	LF		W33 x 201 A992/A36 Structural Beam Or Girder	288.43	71.18
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	25.96	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	57.69	
			<i>For Each Additional Top Copes >2, Add</i>	2.12	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-89.55	
			<i>For Skewed Or Sloped Connections, Add</i>	34.61	
05 12 23 00-0260	LF		W33 x 170 A992/A36 Structural Beam Or Girder	260.45	69.89
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	23.44	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	52.09	
			<i>For Each Additional Top Copes >2, Add</i>	1.86	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-79.98	
			<i>For Skewed Or Sloped Connections, Add</i>	31.25	
05 12 23 00-0261	LF		W33 x 152 A992/A36 Structural Beam Or Girder	238.52	62.46
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	21.47	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	47.70	
			<i>For Each Additional Top Copes >2, Add</i>	1.72	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-73.49	
			<i>For Skewed Or Sloped Connections, Add</i>	28.62	
05 12 23 00-0262	LF		W33 x 141 A992/A36 Structural Beam Or Girder	232.54	68.48
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	20.93	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	46.51	
			<i>For Each Additional Top Copes >2, Add</i>	1.59	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-70.43	
			<i>For Skewed Or Sloped Connections, Add</i>	27.90	
05 12 23 00-0263	LF		W33 x 130 A992/A36 Structural Beam Or Girder	221.54	67.99
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.94	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	44.31	
			<i>For Each Additional Top Copes >2, Add</i>	1.49	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-66.67	
			<i>For Skewed Or Sloped Connections, Add</i>	26.58	
05 12 23 00-0264	LF		W33 x 118 A992/A36 Structural Beam Or Girder	208.75	67.38
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.79	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	41.75	
			<i>For Each Additional Top Copes >2, Add</i>	1.37	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-62.28	
			<i>For Skewed Or Sloped Connections, Add</i>	25.05	
05 12 23 00-0265	LF		W30 x 211 A992/A36 Structural Beam Or Girder	292.41	66.11
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	26.32	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	58.48	
			<i>For Each Additional Top Copes >2, Add</i>	2.22	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-91.77	
			<i>For Skewed Or Sloped Connections, Add</i>	35.09	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0266	LF	W30 x 191 A992/A36	Structural Beam Or Girder.....	276.34	70.68
			For High Strength Low Alloy A572-50 Steel, Add	24.87	
			For High Strength Low Alloy A588 Steel, Add	55.27	
			For Each Additional Top Copes >2, Add	2.01	
			For Structural Tees, WT, MT Or ST, Deduct	-85.40	
			For Skewed Or Sloped Connections, Add	33.16	
05 12 23 00-0267	LF	W30 x 173 A992/A36	Structural Beam Or Girder.....	254.80	63.09
			For High Strength Low Alloy A572-50 Steel, Add	22.93	
			For High Strength Low Alloy A588 Steel, Add	50.96	
			For Each Additional Top Copes >2, Add	1.88	
			For Structural Tees, WT, MT Or ST, Deduct	-79.09	
			For Skewed Or Sloped Connections, Add	30.58	
05 12 23 00-0268	LF	W30 x 154 A992/A36	Structural Beam Or Girder.....	240.49	68.98
			For High Strength Low Alloy A572-50 Steel, Add	21.64	
			For High Strength Low Alloy A588 Steel, Add	48.10	
			For Each Additional Top Copes >2, Add	1.67	
			For Structural Tees, WT, MT Or ST, Deduct	-73.13	
			For Skewed Or Sloped Connections, Add	28.86	
05 12 23 00-0269	LF	W30 x 132 A992/A36	Structural Beam Or Girder.....	216.23	60.88
			For High Strength Low Alloy A572-50 Steel, Add	19.46	
			For High Strength Low Alloy A588 Steel, Add	43.25	
			For Each Additional Top Copes >2, Add	1.51	
			For Structural Tees, WT, MT Or ST, Deduct	-65.94	
			For Skewed Or Sloped Connections, Add	25.95	
05 12 23 00-0270	LF	W30 x 124 A992/A36	Structural Beam Or Girder.....	207.02	60.84
			For High Strength Low Alloy A572-50 Steel, Add	18.63	
			For High Strength Low Alloy A588 Steel, Add	41.40	
			For Each Additional Top Copes >2, Add	1.42	
			For Structural Tees, WT, MT Or ST, Deduct	-62.72	
			For Skewed Or Sloped Connections, Add	24.84	
05 12 23 00-0271	LF	W30 x 116 A992/A36	Structural Beam Or Girder.....	204.74	67.29
			For High Strength Low Alloy A572-50 Steel, Add	18.43	
			For High Strength Low Alloy A588 Steel, Add	40.95	
			For Each Additional Top Copes >2, Add	1.33	
			For Structural Tees, WT, MT Or ST, Deduct	-60.89	
			For Skewed Or Sloped Connections, Add	24.57	
05 12 23 00-0272	LF	W30 x 108 A992/A36	Structural Beam Or Girder.....	189.02	60.58
			For High Strength Low Alloy A572-50 Steel, Add	17.01	
			For High Strength Low Alloy A588 Steel, Add	37.80	
			For Each Additional Top Copes >2, Add	1.24	
			For Structural Tees, WT, MT Or ST, Deduct	-56.47	
			For Skewed Or Sloped Connections, Add	22.68	
05 12 23 00-0273	LF	W30 x 99 A992/A36	Structural Beam Or Girder.....	181.18	60.29
			For High Strength Low Alloy A572-50 Steel, Add	16.31	
			For High Strength Low Alloy A588 Steel, Add	36.24	
			For Each Additional Top Copes >2, Add	1.17	
			For Structural Tees, WT, MT Or ST, Deduct	-53.78	
			For Skewed Or Sloped Connections, Add	21.74	
05 12 23 00-0274	LF	W27 x 178 A992/A36	Structural Beam Or Girder.....	284.20	73.87
			For High Strength Low Alloy A572-50 Steel, Add	25.58	
			For High Strength Low Alloy A588 Steel, Add	56.84	
			For Each Additional Top Copes >2, Add	2.05	
			For Structural Tees, WT, MT Or ST, Deduct	-87.65	
			For Skewed Or Sloped Connections, Add	34.10	
05 12 23 00-0275	LF	W27 x 161 A992/A36	Structural Beam Or Girder.....	261.60	71.08
			For High Strength Low Alloy A572-50 Steel, Add	23.54	
			For High Strength Low Alloy A588 Steel, Add	52.32	
			For Each Additional Top Copes >2, Add	1.86	
			For Structural Tees, WT, MT Or ST, Deduct	-80.19	
			For Skewed Or Sloped Connections, Add	31.39	
05 12 23 00-0276	LF	W27 x 146 A992/A36	Structural Beam Or Girder.....	241.61	68.57
			For High Strength Low Alloy A572-50 Steel, Add	21.74	
			For High Strength Low Alloy A588 Steel, Add	48.32	
			For Each Additional Top Copes >2, Add	1.68	
			For Structural Tees, WT, MT Or ST, Deduct	-73.59	
			For Skewed Or Sloped Connections, Add	28.99	
05 12 23 00-0277	LF	W27 x 114 A992/A36	Structural Beam Or Girder.....	192.31	56.96
			For High Strength Low Alloy A572-50 Steel, Add	17.31	
			For High Strength Low Alloy A588 Steel, Add	38.46	
			For Each Additional Top Copes >2, Add	1.32	
			For Structural Tees, WT, MT Or ST, Deduct	-58.19	
			For Skewed Or Sloped Connections, Add	23.08	
05 12 23 00-0278	LF	W27 x 102 A992/A36	Structural Beam Or Girder.....	181.98	60.29
			For High Strength Low Alloy A572-50 Steel, Add	16.38	
			For High Strength Low Alloy A588 Steel, Add	36.40	
			For Each Additional Top Copes >2, Add	1.18	
			For Structural Tees, WT, MT Or ST, Deduct	-54.05	
			For Skewed Or Sloped Connections, Add	21.84	
05 12 23 00-0279	LF	W27 x 94 A992/A36	Structural Beam Or Girder.....	174.60	59.89
			For High Strength Low Alloy A572-50 Steel, Add	15.71	
			For High Strength Low Alloy A588 Steel, Add	34.92	
			For Each Additional Top Copes >2, Add	1.11	
			For Structural Tees, WT, MT Or ST, Deduct	-51.53	
			For Skewed Or Sloped Connections, Add	20.95	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0280	LF		W27 x 84 A992/A36 Structural Beam Or Girder	165.60	59.48
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.90	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	33.12	
			<i>For Each Additional Top Copes >2, Add</i>	1.02	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-48.45	
			<i>For Skewed Or Sloped Connections, Add</i>	19.87	
05 12 23 00-0281	LF		W24 x 162 A992/A36 Structural Beam Or Girder	251.89	68.15
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.67	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	50.38	
			<i>For Each Additional Top Copes >2, Add</i>	1.79	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-77.26	
			<i>For Skewed Or Sloped Connections, Add</i>	30.23	
05 12 23 00-0282	LF		W24 x 146 A992/A36 Structural Beam Or Girder	231.19	65.33
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	20.81	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	46.24	
			<i>For Each Additional Top Copes >2, Add</i>	1.62	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-70.46	
			<i>For Skewed Or Sloped Connections, Add</i>	27.74	
05 12 23 00-0283	LF		W24 x 131 A992/A36 Structural Beam Or Girder	211.43	62.37
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.03	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	42.29	
			<i>For Each Additional Top Copes >2, Add</i>	1.45	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-64.02	
			<i>For Skewed Or Sloped Connections, Add</i>	25.37	
05 12 23 00-0284	LF		W24 x 117 A992/A36 Structural Beam Or Girder	192.62	59.26
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.34	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	38.52	
			<i>For Each Additional Top Copes >2, Add</i>	1.29	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-57.94	
			<i>For Skewed Or Sloped Connections, Add</i>	23.11	
05 12 23 00-0285	LF		W24 x 104 A992/A36 Structural Beam Or Girder	174.81	56.04
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.73	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	34.96	
			<i>For Each Additional Top Copes >2, Add</i>	1.15	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-52.22	
			<i>For Skewed Or Sloped Connections, Add</i>	20.98	
05 12 23 00-0286	LF		W24 x 94 A992/A36 Structural Beam Or Girder	167.86	59.89
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.11	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	33.57	
			<i>For Each Additional Top Copes >2, Add</i>	1.04	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-49.17	
			<i>For Skewed Or Sloped Connections, Add</i>	20.14	
05 12 23 00-0287	LF		W24 x 84 A992/A36 Structural Beam Or Girder	152.74	53.09
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.75	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	30.55	
			<i>For Each Additional Top Copes >2, Add</i>	0.96	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-44.96	
			<i>For Skewed Or Sloped Connections, Add</i>	18.33	
05 12 23 00-0288	LF		W24 x 76 A992/A36 Structural Beam Or Girder	145.84	52.68
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.13	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	29.17	
			<i>For Each Additional Top Copes >2, Add</i>	0.90	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-42.60	
			<i>For Skewed Or Sloped Connections, Add</i>	17.50	
05 12 23 00-0289	LF		W24 x 68 A992/A36 Structural Beam Or Girder	137.16	52.39
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.34	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	27.43	
			<i>For Each Additional Top Copes >2, Add</i>	0.81	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-39.62	
			<i>For Skewed Or Sloped Connections, Add</i>	16.46	
05 12 23 00-0290	LF		W24 x 62 A992/A36 Structural Beam Or Girder	132.60	52.09
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.93	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	26.52	
			<i>For Each Additional Top Copes >2, Add</i>	0.77	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-38.07	
			<i>For Skewed Or Sloped Connections, Add</i>	15.91	
05 12 23 00-0291	LF		W24 x 55 A992/A36 Structural Beam Or Girder	126.38	51.89
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.37	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	25.28	
			<i>For Each Additional Top Copes >2, Add</i>	0.71	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-35.94	
			<i>For Skewed Or Sloped Connections, Add</i>	15.17	
05 12 23 00-0292	LF		W21 x 147 A992/A36 Structural Beam Or Girder	219.46	56.05
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.75	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	43.89	
			<i>For Each Additional Top Copes >2, Add</i>	1.60	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-67.84	
			<i>For Skewed Or Sloped Connections, Add</i>	26.34	
05 12 23 00-0293	LF		W21 x 132 A992/A36 Structural Beam Or Girder	200.50	53.54
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.05	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	40.10	
			<i>For Each Additional Top Copes >2, Add</i>	1.43	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-61.61	
			<i>For Skewed Or Sloped Connections, Add</i>	24.06	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0294	LF		W21 x 122 A992/A36 Structural Beam Or Girder.....	188.67	52.65
			For High Strength Low Alloy A572-50 Steel, Add	16.98	
			For High Strength Low Alloy A588 Steel, Add	37.73	
			For Each Additional Top Copes >2, Add	1.33	
			For Structural Tees, WT, MT Or ST, Deduct	-57.61	
			For Skewed Or Sloped Connections, Add	22.64	
05 12 23 00-0295	LF		W21 x 111 A992/A36 Structural Beam Or Girder.....	174.93	50.96
			For High Strength Low Alloy A572-50 Steel, Add	15.74	
			For High Strength Low Alloy A588 Steel, Add	34.99	
			For Each Additional Top Copes >2, Add	1.21	
			For Structural Tees, WT, MT Or ST, Deduct	-53.07	
			For Skewed Or Sloped Connections, Add	20.99	
05 12 23 00-0296	LF		W21 x 101 A992/A36 Structural Beam Or Girder.....	162.32	49.33
			For High Strength Low Alloy A572-50 Steel, Add	14.61	
			For High Strength Low Alloy A588 Steel, Add	32.46	
			For Each Additional Top Copes >2, Add	1.10	
			For Structural Tees, WT, MT Or ST, Deduct	-48.92	
			For Skewed Or Sloped Connections, Add	19.48	
05 12 23 00-0297	LF		W21 x 93 A992/A36 Structural Beam Or Girder	158.30	53.69
			For High Strength Low Alloy A572-50 Steel, Add	14.25	
			For High Strength Low Alloy A588 Steel, Add	31.66	
			For Each Additional Top Copes >2, Add	1.01	
			For Structural Tees, WT, MT Or ST, Deduct	-46.81	
			For Skewed Or Sloped Connections, Add	19.00	
05 12 23 00-0298	LF		W21 x 83 A992/A36 Structural Beam Or Girder	150.14	53.09
			For High Strength Low Alloy A572-50 Steel, Add	13.51	
			For High Strength Low Alloy A588 Steel, Add	30.03	
			For Each Additional Top Copes >2, Add	0.93	
			For Structural Tees, WT, MT Or ST, Deduct	-44.05	
			For Skewed Or Sloped Connections, Add	18.02	
05 12 23 00-0299	LF		W21 x 73 A992/A36 Structural Beam Or Girder	140.17	52.68
			For High Strength Low Alloy A572-50 Steel, Add	12.62	
			For High Strength Low Alloy A588 Steel, Add	28.03	
			For Each Additional Top Copes >2, Add	0.84	
			For Structural Tees, WT, MT Or ST, Deduct	-40.63	
			For Skewed Or Sloped Connections, Add	16.82	
05 12 23 00-0300	LF		W21 x 68 A992/A36 Structural Beam Or Girder	135.15	52.39
			For High Strength Low Alloy A572-50 Steel, Add	12.16	
			For High Strength Low Alloy A588 Steel, Add	27.03	
			For Each Additional Top Copes >2, Add	0.79	
			For Structural Tees, WT, MT Or ST, Deduct	-38.92	
			For Skewed Or Sloped Connections, Add	16.22	
05 12 23 00-0301	LF		W21 x 62 A992/A36 Structural Beam Or Girder	130.59	52.09
			For High Strength Low Alloy A572-50 Steel, Add	11.75	
			For High Strength Low Alloy A588 Steel, Add	26.12	
			For Each Additional Top Copes >2, Add	0.75	
			For Structural Tees, WT, MT Or ST, Deduct	-37.37	
			For Skewed Or Sloped Connections, Add	15.67	
05 12 23 00-0302	LF		W21 x 57 A992/A36 Structural Beam Or Girder	126.48	51.99
			For High Strength Low Alloy A572-50 Steel, Add	11.38	
			For High Strength Low Alloy A588 Steel, Add	25.30	
			For Each Additional Top Copes >2, Add	0.71	
			For Structural Tees, WT, MT Or ST, Deduct	-35.96	
			For Skewed Or Sloped Connections, Add	15.18	
05 12 23 00-0303	LF		W21 x 50 A992/A36 Structural Beam Or Girder	111.95	45.09
			For High Strength Low Alloy A572-50 Steel, Add	10.08	
			For High Strength Low Alloy A588 Steel, Add	22.39	
			For Each Additional Top Copes >2, Add	0.64	
			For Structural Tees, WT, MT Or ST, Deduct	-31.95	
			For Skewed Or Sloped Connections, Add	13.43	
05 12 23 00-0304	LF		W21 x 44 A992/A36 Structural Beam Or Girder	107.15	44.89
			For High Strength Low Alloy A572-50 Steel, Add	9.64	
			For High Strength Low Alloy A588 Steel, Add	21.43	
			For Each Additional Top Copes >2, Add	0.59	
			For Structural Tees, WT, MT Or ST, Deduct	-30.32	
			For Skewed Or Sloped Connections, Add	12.86	
05 12 23 00-0305	LF		W18 x 119 A992/A36 Structural Beam Or Girder.....	183.82	52.46
			For High Strength Low Alloy A572-50 Steel, Add	16.54	
			For High Strength Low Alloy A588 Steel, Add	36.76	
			For Each Additional Top Copes >2, Add	1.28	
			For Structural Tees, WT, MT Or ST, Deduct	-55.94	
			For Skewed Or Sloped Connections, Add	22.06	
05 12 23 00-0306	LF		W18 x 106 A992/A36 Structural Beam Or Girder.....	166.92	49.72
			For High Strength Low Alloy A572-50 Steel, Add	15.02	
			For High Strength Low Alloy A588 Steel, Add	33.38	
			For Each Additional Top Copes >2, Add	1.14	
			For Structural Tees, WT, MT Or ST, Deduct	-50.47	
			For Skewed Or Sloped Connections, Add	20.03	
05 12 23 00-0307	LF		W18 x 97 A992/A36 Structural Beam Or Girder	161.61	53.69
			For High Strength Low Alloy A572-50 Steel, Add	14.54	
			For High Strength Low Alloy A588 Steel, Add	32.32	
			For Each Additional Top Copes >2, Add	1.04	
			For Structural Tees, WT, MT Or ST, Deduct	-47.96	
			For Skewed Or Sloped Connections, Add	19.39	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05	12	23	00-0308	LF W18 x 86 A992/A36 Structural Beam Or Girder <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	152.25 13.70 30.45 0.95 -44.77 18.27	53.19
05	12	23	00-0309	LF W18 x 76 A992/A36 Structural Beam Or Girder <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	143.83 12.94 28.77 0.88 -41.90 17.26	52.68
05	12	23	00-0310	LF W18 x 71 A992/A36 Structural Beam Or Girder <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	137.71 12.39 27.54 0.82 -39.79 16.53	52.59
05	12	23	00-0311	LF W18 x 65 A992/A36 Structural Beam Or Girder <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	131.72 11.85 26.34 0.76 -37.74 15.81	52.39
05	12	23	00-0312	LF W18 x 60 A992/A36 Structural Beam Or Girder <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	126.35 11.37 25.27 0.71 -35.90 15.16	51.99
05	12	23	00-0313	LF W18 x 55 A992/A36 Structural Beam Or Girder <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	120.94 10.88 24.19 0.66 -34.04 14.51	51.89
05	12	23	00-0314	LF W18 x 50 A992/A36 Structural Beam Or Girder <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	108.64 9.78 21.73 0.60 -30.80 13.04	45.09
05	12	23	00-0315	LF W18 x 46 A992/A36 Structural Beam Or Girder <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	104.42 9.40 20.88 0.56 -29.35 12.53	44.99
05	12	23	00-0316	LF W18 x 40 A992/A36 Structural Beam Or Girder <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	91.15 8.20 18.23 0.50 -25.75 10.94	38.39
05	12	23	00-0317	LF W18 x 35 A992/A36 Structural Beam Or Girder <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	85.86 7.73 17.17 0.45 -23.93 10.30	38.29
05	12	23	00-0318	LF W16 x 100 A992/A36 Structural Beam Or Girder <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	149.21 13.43 29.84 1.12 -46.65 17.91	34.90
05	12	23	00-0319	LF W16 x 89 A992/A36 Structural Beam Or Girder <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	137.26 12.35 27.45 1.01 -42.55 16.47	34.29
05	12	23	00-0320	LF W16 x 77 A992/A36 Structural Beam Or Girder <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	124.45 11.20 24.89 0.88 -38.14 14.93	33.89
05	12	23	00-0321	LF W16 x 67 A992/A36 Structural Beam Or Girder <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	113.55 10.22 22.71 0.78 -34.40 13.63	33.40

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0322	LF		W16 x 57 A992/A36 Structural Beam Or Girder	102.75	32.89
			For High Strength Low Alloy A572-50 Steel, Add	9.25	
			For High Strength Low Alloy A588 Steel, Add	20.55	
			For Each Additional Top Copes >2, Add	0.68	
			For Structural Tees, WT, MT Or ST, Deduct	-30.70	
			For Skewed Or Sloped Connections, Add	12.33	
05 12 23 00-0323	LF		W16 x 50 A992/A36 Structural Beam Or Girder	95.24	32.59
			For High Strength Low Alloy A572-50 Steel, Add	8.57	
			For High Strength Low Alloy A588 Steel, Add	19.05	
			For Each Additional Top Copes >2, Add	0.60	
			For Structural Tees, WT, MT Or ST, Deduct	-28.12	
			For Skewed Or Sloped Connections, Add	11.43	
05 12 23 00-0324	LF		W16 x 45 A992/A36 Structural Beam Or Girder	89.95	32.39
			For High Strength Low Alloy A572-50 Steel, Add	8.10	
			For High Strength Low Alloy A588 Steel, Add	17.99	
			For Each Additional Top Copes >2, Add	0.55	
			For Structural Tees, WT, MT Or ST, Deduct	-26.29	
			For Skewed Or Sloped Connections, Add	10.79	
05 12 23 00-0325	LF		W16 x 40 A992/A36 Structural Beam Or Girder	84.45	32.09
			For High Strength Low Alloy A572-50 Steel, Add	7.60	
			For High Strength Low Alloy A588 Steel, Add	16.89	
			For Each Additional Top Copes >2, Add	0.50	
			For Structural Tees, WT, MT Or ST, Deduct	-24.41	
			For Skewed Or Sloped Connections, Add	10.13	
05 12 23 00-0326	LF		W16 x 36 A992/A36 Structural Beam Or Girder	80.12	31.89
			For High Strength Low Alloy A572-50 Steel, Add	7.21	
			For High Strength Low Alloy A588 Steel, Add	16.02	
			For Each Additional Top Copes >2, Add	0.46	
			For Structural Tees, WT, MT Or ST, Deduct	-22.94	
			For Skewed Or Sloped Connections, Add	9.61	
05 12 23 00-0327	LF		W16 x 31 A992/A36 Structural Beam Or Girder	68.02	25.39
			For High Strength Low Alloy A572-50 Steel, Add	6.12	
			For High Strength Low Alloy A588 Steel, Add	13.60	
			For Each Additional Top Copes >2, Add	0.41	
			For Structural Tees, WT, MT Or ST, Deduct	-19.74	
			For Skewed Or Sloped Connections, Add	8.16	
05 12 23 00-0328	LF		W16 x 26 A992/A36 Structural Beam Or Girder	61.12	25.09
			For High Strength Low Alloy A572-50 Steel, Add	5.50	
			For High Strength Low Alloy A588 Steel, Add	12.22	
			For Each Additional Top Copes >2, Add	0.34	
			For Structural Tees, WT, MT Or ST, Deduct	-17.37	
			For Skewed Or Sloped Connections, Add	7.33	
05 12 23 00-0329	LF		W14 x 99 A992/A36 Structural Beam Or Girder	141.45	28.59
			For High Strength Low Alloy A572-50 Steel, Add	12.73	
			For High Strength Low Alloy A588 Steel, Add	28.29	
			For Each Additional Top Copes >2, Add	1.11	
			For Structural Tees, WT, MT Or ST, Deduct	-44.93	
			For Skewed Or Sloped Connections, Add	16.97	
05 12 23 00-0330	LF		W14 x 90 A992/A36 Structural Beam Or Girder	131.72	28.10
			For High Strength Low Alloy A572-50 Steel, Add	11.85	
			For High Strength Low Alloy A588 Steel, Add	26.34	
			For Each Additional Top Copes >2, Add	1.02	
			For Structural Tees, WT, MT Or ST, Deduct	-41.60	
			For Skewed Or Sloped Connections, Add	15.81	
05 12 23 00-0331	LF		W14 x 82 A992/A36 Structural Beam Or Girder	123.04	27.79
			For High Strength Low Alloy A572-50 Steel, Add	11.07	
			For High Strength Low Alloy A588 Steel, Add	24.61	
			For Each Additional Top Copes >2, Add	0.93	
			For Structural Tees, WT, MT Or ST, Deduct	-38.63	
			For Skewed Or Sloped Connections, Add	14.76	
05 12 23 00-0332	LF		W14 x 74 A992/A36 Structural Beam Or Girder	114.38	27.39
			For High Strength Low Alloy A572-50 Steel, Add	10.29	
			For High Strength Low Alloy A588 Steel, Add	22.88	
			For Each Additional Top Copes >2, Add	0.85	
			For Structural Tees, WT, MT Or ST, Deduct	-35.65	
			For Skewed Or Sloped Connections, Add	13.73	
05 12 23 00-0333	LF		W14 x 68 A992/A36 Structural Beam Or Girder	107.91	27.09
			For High Strength Low Alloy A572-50 Steel, Add	9.71	
			For High Strength Low Alloy A588 Steel, Add	21.58	
			For Each Additional Top Copes >2, Add	0.79	
			For Structural Tees, WT, MT Or ST, Deduct	-33.44	
			For Skewed Or Sloped Connections, Add	12.95	
05 12 23 00-0334	LF		W14 x 61 A992/A36 Structural Beam Or Girder	100.39	26.80
			For High Strength Low Alloy A572-50 Steel, Add	9.04	
			For High Strength Low Alloy A588 Steel, Add	20.08	
			For Each Additional Top Copes >2, Add	0.72	
			For Structural Tees, WT, MT Or ST, Deduct	-30.85	
			For Skewed Or Sloped Connections, Add	12.05	
05 12 23 00-0335	LF		W14 x 53 A992/A36 Structural Beam Or Girder	91.83	26.39
			For High Strength Low Alloy A572-50 Steel, Add	8.26	
			For High Strength Low Alloy A588 Steel, Add	18.37	
			For Each Additional Top Copes >2, Add	0.64	
			For Structural Tees, WT, MT Or ST, Deduct	-27.91	
			For Skewed Or Sloped Connections, Add	11.02	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05	12	23	00-0336	LF W14 x 48 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	86.34 7.77 17.27 0.58 -26.03 10.36	26.10
05	12	23	00-0337	LF W14 x 43 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	80.93 7.28 16.19 0.53 -24.17 9.71	25.99
05	12	23	00-0338	LF W14 x 38 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	75.53 6.80 15.11 0.48 -22.33 9.06	25.79
05	12	23	00-0339	LF W14 x 34 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	71.20 6.41 14.24 0.44 -20.84 8.54	25.50
05	12	23	00-0340	LF W14 x 30 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	66.86 6.02 13.37 0.40 -19.35 8.02	25.39
05	12	23	00-0341	LF W14 x 26 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	62.52 5.63 12.50 0.36 -17.86 7.50	25.09
05	12	23	00-0342	LF W14 x 22 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	58.30 5.25 11.66 0.32 -16.42 7.00	25.00
05	12	23	00-0343	LF W12 x 87 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	128.56 11.57 25.71 0.99 -40.51 15.43	27.99
05	12	23	00-0344	LF W12 x 79 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	119.87 10.79 23.97 0.90 -37.53 14.38	27.59
05	12	23	00-0345	LF W12 x 72 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	112.25 10.10 22.45 0.83 -34.92 13.47	27.29
05	12	23	00-0346	LF W12 x 65 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	104.74 9.43 20.95 0.76 -32.34 12.57	27.00
05	12	23	00-0347	LF W12 x 58 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	97.12 8.74 19.42 0.69 -29.73 11.65	26.60
05	12	23	00-0348	LF W12 x 53 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	91.83 8.26 18.37 0.64 -27.91 11.02	26.39
05	12	23	00-0349	LF W12 x 50 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	88.44 7.96 17.69 0.60 -26.76 10.61	26.29

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0350	LF		W12 x 45 A992/A36 Structural Beam Or Girder	83.15	26.10
			For High Strength Low Alloy A572-50 Steel, Add	7.48	
			For High Strength Low Alloy A588 Steel, Add	16.63	
			For Each Additional Top Copes >2, Add	0.55	
			For Structural Tees, WT, MT Or ST, Deduct	-24.93	
			For Skewed Or Sloped Connections, Add	9.98	
05 12 23 00-0351	LF		W12 x 40 A992/A36 Structural Beam Or Girder	70.86	19.39
			For High Strength Low Alloy A572-50 Steel, Add	6.38	
			For High Strength Low Alloy A588 Steel, Add	14.17	
			For Each Additional Top Copes >2, Add	0.50	
			For Structural Tees, WT, MT Or ST, Deduct	-21.70	
			For Skewed Or Sloped Connections, Add	8.50	
05 12 23 00-0352	LF		W12 x 35 A992/A36 Structural Beam Or Girder	65.56	19.30
			For High Strength Low Alloy A572-50 Steel, Add	5.90	
			For High Strength Low Alloy A588 Steel, Add	13.11	
			For Each Additional Top Copes >2, Add	0.45	
			For Structural Tees, WT, MT Or ST, Deduct	-19.87	
			For Skewed Or Sloped Connections, Add	7.87	
05 12 23 00-0353	LF		W12 x 30 A992/A36 Structural Beam Or Girder	60.06	18.99
			For High Strength Low Alloy A572-50 Steel, Add	5.41	
			For High Strength Low Alloy A588 Steel, Add	12.01	
			For Each Additional Top Copes >2, Add	0.40	
			For Structural Tees, WT, MT Or ST, Deduct	-17.99	
			For Skewed Or Sloped Connections, Add	7.21	
05 12 23 00-0354	LF		W12 x 26 A992/A36 Structural Beam Or Girder	55.72	18.79
			For High Strength Low Alloy A572-50 Steel, Add	5.01	
			For High Strength Low Alloy A588 Steel, Add	11.14	
			For Each Additional Top Copes >2, Add	0.36	
			For Structural Tees, WT, MT Or ST, Deduct	-16.50	
			For Skewed Or Sloped Connections, Add	6.69	
05 12 23 00-0355	LF		W12 x 22 A992/A36 Structural Beam Or Girder	51.50	18.59
			For High Strength Low Alloy A572-50 Steel, Add	4.64	
			For High Strength Low Alloy A588 Steel, Add	10.30	
			For Each Additional Top Copes >2, Add	0.32	
			For Structural Tees, WT, MT Or ST, Deduct	-15.06	
			For Skewed Or Sloped Connections, Add	6.18	
05 12 23 00-0356	LF		W12 x 19 A992/A36 Structural Beam Or Girder	48.21	18.50
			For High Strength Low Alloy A572-50 Steel, Add	4.34	
			For High Strength Low Alloy A588 Steel, Add	9.64	
			For Each Additional Top Copes >2, Add	0.29	
			For Structural Tees, WT, MT Or ST, Deduct	-13.92	
			For Skewed Or Sloped Connections, Add	5.79	
05 12 23 00-0357	LF		W12 x 16 A992/A36 Structural Beam Or Girder	44.93	18.20
			For High Strength Low Alloy A572-50 Steel, Add	4.04	
			For High Strength Low Alloy A588 Steel, Add	8.99	
			For Each Additional Top Copes >2, Add	0.25	
			For Structural Tees, WT, MT Or ST, Deduct	-12.80	
			For Skewed Or Sloped Connections, Add	5.39	
05 12 23 00-0358	LF		W12 x 14 A992/A36 Structural Beam Or Girder	42.81	18.20
			For High Strength Low Alloy A572-50 Steel, Add	3.85	
			For High Strength Low Alloy A588 Steel, Add	8.56	
			For Each Additional Top Copes >2, Add	0.23	
			For Structural Tees, WT, MT Or ST, Deduct	-12.08	
			For Skewed Or Sloped Connections, Add	5.14	
05 12 23 00-0359	LF		W10 x 68 A992/A36 Structural Beam Or Girder	101.46	20.90
			For High Strength Low Alloy A572-50 Steel, Add	9.13	
			For High Strength Low Alloy A588 Steel, Add	20.29	
			For Each Additional Top Copes >2, Add	0.79	
			For Structural Tees, WT, MT Or ST, Deduct	-32.18	
			For Skewed Or Sloped Connections, Add	12.18	
05 12 23 00-0360	LF		W10 x 60 A992/A36 Structural Beam Or Girder	92.88	20.49
			For High Strength Low Alloy A572-50 Steel, Add	8.36	
			For High Strength Low Alloy A588 Steel, Add	18.58	
			For Each Additional Top Copes >2, Add	0.71	
			For Structural Tees, WT, MT Or ST, Deduct	-29.24	
			For Skewed Or Sloped Connections, Add	11.15	
05 12 23 00-0361	LF		W10 x 54 A992/A36 Structural Beam Or Girder	86.32	20.09
			For High Strength Low Alloy A572-50 Steel, Add	7.77	
			For High Strength Low Alloy A588 Steel, Add	17.26	
			For Each Additional Top Copes >2, Add	0.65	
			For Structural Tees, WT, MT Or ST, Deduct	-26.99	
			For Skewed Or Sloped Connections, Add	10.36	
05 12 23 00-0362	LF		W10 x 49 A992/A36 Structural Beam Or Girder	80.93	19.89
			For High Strength Low Alloy A572-50 Steel, Add	7.28	
			For High Strength Low Alloy A588 Steel, Add	16.19	
			For Each Additional Top Copes >2, Add	0.60	
			For Structural Tees, WT, MT Or ST, Deduct	-25.15	
			For Skewed Or Sloped Connections, Add	9.71	
05 12 23 00-0363	LF		W10 x 45 A992/A36 Structural Beam Or Girder	76.59	19.80
			For High Strength Low Alloy A572-50 Steel, Add	6.89	
			For High Strength Low Alloy A588 Steel, Add	15.32	
			For Each Additional Top Copes >2, Add	0.56	
			For Structural Tees, WT, MT Or ST, Deduct	-23.66	
			For Skewed Or Sloped Connections, Add	9.19	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0364	LF		W10 x 39 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	70.15 6.31 14.03 0.49 -21.45 8.42	19.39
05 12 23 00-0365	LF		W10 x 33 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	63.70 5.73 12.74 0.43 -19.24 7.64	19.10
05 12 23 00-0366	LF		W10 x 30 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	60.39 5.44 12.08 0.40 -18.09 7.25	18.99
05 12 23 00-0367	LF		W10 x 26 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	56.17 5.06 11.23 0.36 -16.65 6.74	18.90
05 12 23 00-0368	LF		W10 x 22 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	51.74 4.66 10.35 0.32 -15.14 6.21	18.59
05 12 23 00-0369	LF		W10 x 19 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	48.56 4.37 9.71 0.29 -14.04 5.83	18.50
05 12 23 00-0370	LF		W10 x 17 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	46.33 4.17 9.27 0.27 -13.28 5.56	18.40
05 12 23 00-0371	LF		W10 x 15 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	44.22 3.98 8.84 0.25 -12.55 5.31	18.20
05 12 23 00-0372	LF		W10 x 12 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	41.04 3.69 8.21 0.22 -11.46 4.92	18.20
05 12 23 00-0373	LF		W8 x 35 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	65.80 5.92 13.16 0.45 -19.96 7.90	19.30
05 12 23 00-0374	LF		W8 x 31 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	61.46 5.53 12.29 0.41 -18.47 7.38	18.99
05 12 23 00-0375	LF		W8 x 28 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	57.19 5.15 11.44 0.38 -17.15 6.86	17.89
05 12 23 00-0376	LF		W8 x 24 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	52.21 4.70 10.44 0.34 -15.59 6.27	16.79
05 12 23 00-0377	LF		W8 x 21 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	48.60 4.37 9.72 0.32 -14.51 5.83	15.60

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0378	LF		W8 x 18 A992/A36 Structural Beam Or Girder	42.65	14.50
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	3.84	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	8.53	
			<i>For Each Additional Top Copes >2, Add</i>	0.27	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-12.60	
			<i>For Skewed Or Sloped Connections, Add</i>	5.12	
05 12 23 00-0379	LF		W8 x 10 A992/A36 Structural Beam Or Girder	25.50	10.40
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	2.30	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	5.10	
			<i>For Each Additional Top Copes >2, Add</i>	0.15	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-7.28	
			<i>For Skewed Or Sloped Connections, Add</i>	3.06	
05 12 23 00-0380	LF		W6 x 9 A992/A36 Structural Beam Or Girder	23.31	8.50
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	2.10	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	4.66	
			<i>For Each Additional Top Copes >2, Add</i>	0.14	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-6.81	
			<i>For Skewed Or Sloped Connections, Add</i>	2.80	
05 12 23 00-0381			A992/A36 Structural Steel, M Shapes (05 12 23 00-0163)		
			Note: Includes material delivery and erection.		
05 12 23 00-0382	LF		M14 x 18 A992/A36 Structural Steel	47.66	13.83
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.29	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	9.53	
05 12 23 00-0383	LF		M12 x 11.8 A992/A36 Structural Steel	34.62	12.23
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	3.12	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	6.92	
05 12 23 00-0384	LF		M10 x 9 A992/A36 Structural Steel	26.93	9.81
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	2.42	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	5.39	
05 12 23 00-0385	LF		M8 x 6.5 A992/A36 Structural Steel	19.45	7.08
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	1.75	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	3.89	
05 12 23 00-0386	LF		M6 x 20 A992/A36 Structural Steel	53.58	16.10
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.82	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	10.72	
05 12 23 00-0387	LF		M6 x 4.4 A992/A36 Structural Steel	13.16	4.79
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	1.18	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	2.63	
05 12 23 00-0388	LF		M5 x 18.9 A992/A36 Structural Steel	51.71	16.10
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.65	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	10.34	
05 12 23 00-0389	LF		M4 x 13 A992/A36 Structural Steel	42.81	15.80
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	3.85	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	8.56	
05 12 23 00-0390			A992/A36 Structural Steel, S Shapes (05 12 23 00-0163)		
			Note: Includes material delivery and erection.		
05 12 23 00-0391	LF		S24 x 121 A992/A36 Structural Steel	284.34	70.01
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	25.59	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	56.87	
05 12 23 00-0392	LF		S24 x 106 A992/A36 Structural Steel	252.55	64.56
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.73	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	50.51	
05 12 23 00-0393	LF		S24 x 100 A992/A36 Structural Steel	241.66	64.11
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	21.75	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	48.33	
05 12 23 00-0394	LF		S24 x 90 A992/A36 Structural Steel	220.74	60.74
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.87	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	44.15	
05 12 23 00-0395	LF		S24 x 80 A992/A36 Structural Steel	199.23	56.83
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.93	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	39.85	
05 12 23 00-0396	LF		S20 x 96 A992/A36 Structural Steel	232.01	61.55
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	20.88	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	46.40	
05 12 23 00-0397	LF		S20 x 86 A992/A36 Structural Steel	210.93	58.04
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.98	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	42.19	
05 12 23 00-0398	LF		S20 x 75 A992/A36 Structural Steel	186.78	53.28
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.81	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	37.36	
05 12 23 00-0399	LF		S20 x 66 A992/A36 Structural Steel	167.00	49.36
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.03	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	33.40	
05 12 23 00-0400	LF		S18 x 70 A992/A36 Structural Steel	177.13	52.34
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.94	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	35.43	
05 12 23 00-0401	LF		S18 x 54.7 A992/A36 Structural Steel	140.70	43.06
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.66	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	28.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0402 LF S15 x 50 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	130.83 11.77 26.17	41.43
05 12 23 00-0403 LF S15 x 42.9 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	114.24 10.28 22.85	37.41
05 12 23 00-0404 LF S12 x 50 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	128.62 11.58 25.72	39.36
05 12 23 00-0405 LF S12 x 40.8 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	106.75 9.61 21.35	33.81
05 12 23 00-0406 LF S12 x 35 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	93.20 8.39 18.64	30.53
05 12 23 00-0407 LF S12 x 31.8 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	86.24 7.76 17.25	29.19
05 12 23 00-0408 LF S10 x 35 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	94.92 8.54 18.98	32.14
05 12 23 00-0409 LF S10 x 25.4 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	70.19 6.32 14.04	24.54
05 12 23 00-0410 LF S8 x 23 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	63.56 5.72 12.71	22.23
05 12 23 00-0411 LF S8 x 18.4 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	51.84 4.67 10.37	18.72
05 12 23 00-0412 LF S7 x 20 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	56.35 5.07 11.27	20.35
05 12 23 00-0413 LF S7 x 15.3 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	43.99 3.96 8.80	16.39
05 12 23 00-0414 LF S6 x 17.25 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	47.90 4.31 9.58	16.88
05 12 23 00-0415 LF S6 x 12.5 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	41.22 3.71 8.24	15.60
05 12 23 00-0416 LF S5 x 14.75 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	43.78 3.94 8.76	15.89
05 12 23 00-0417 LF S5 x 10 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	37.45 3.37 7.49	15.49
05 12 23 00-0418 LF S4 x 9.5 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	36.48 3.28 7.30	15.49
05 12 23 00-0419 LF S4 x 7.7 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	34.24 3.08 6.85	15.49
05 12 23 00-0420 LF S3 x 7.5 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	34.03 3.06 6.81	15.49
05 12 23 00-0421 LF S3 x 5.7 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	31.35 2.82 6.27	15.40
05 12 23 00-0422 A992/A36 Structural Steel, HP Shapes <small>(05 12 23 00-0163)</small> Note: Includes material delivery and erection.		
05 12 23 00-0423 LF HP14 x 117 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	171.05 15.39 34.21	20.74
05 12 23 00-0424 LF HP14 x 102 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	149.88 13.49 29.98	19.30
05 12 23 00-0425 LF HP14 x 89 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	133.71 12.03 26.74	18.10
05 12 23 00-0426 LF HP14 x 73 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	111.07 10.00 22.21	17.07
05 12 23 00-0427 LF HP13 x 100 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	146.95 13.23 29.39	18.93
05 12 23 00-0428 LF HP13 x 87 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	130.70 11.76 26.14	17.70
05 12 23 00-0429 LF HP13 x 73 A992/A36 Structural Steel <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	111.07 10.00 22.21	17.07

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0430	LF		HP13 x 60 A992/A36 Structural Steel.....	94.46	16.35
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.50	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	18.89	
05 12 23 00-0431	LF		HP12 x 84 A992/A36 Structural Steel.....	123.66	18.67
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.13	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	24.73	
05 12 23 00-0432	LF		HP12 x 74 A992/A36 Structural Steel.....	109.47	17.60
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.85	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	21.89	
05 12 23 00-0433	LF		HP12 x 63 A992/A36 Structural Steel.....	94.42	16.19
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.50	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	18.88	
05 12 23 00-0434	LF		HP12 x 53 A992/A36 Structural Steel.....	86.67	15.39
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.80	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	17.33	
05 12 23 00-0435	LF		HP10 x 57 A992/A36 Structural Steel.....	91.22	15.80
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.21	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	18.24	
05 12 23 00-0436	LF		HP10 x 42 A992/A36 Structural Steel.....	75.52	14.80
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.80	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	15.10	
05 12 23 00-0437	LF		HP8 x 36 A992/A36 Structural Steel.....	65.85	13.96
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	5.93	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	13.17	
05 12 23 00-0438			Lightweight Framing Steel Shapes (05 12 23)		
05 12 23 00-0439			Angle Iron - L (05 12 23 00-0438)		
05 12 23 00-0440			1/8" Thick (05 12 23 00-0439)		
05 12 23 00-0441	LF		1/2" x 1/2" x 1/8" Angle Iron.....	2.30	1.42
			<i>For >100 To 250, Deduct</i>	-0.14	
			<i>For >250 To 500, Deduct</i>	-0.20	
			<i>For >500 To 1,000, Deduct</i>	-0.30	
			<i>For >1,000, Deduct</i>	-0.41	
			<i>For 316 Stainless Steel, Add</i>	1.31	
			<i>For Aluminum, Add</i>	0.07	
			<i>For Galvanized Steel, Add</i>	0.25	
			<i>For 304 Stainless Steel, Add</i>	1.17	
			<i>For High Strength Steel (HSS), Add</i>	0.46	
05 12 23 00-0442	LF		3/4" x 1/2" x 1/8" Angle Iron.....	2.65	1.61
			<i>For >100 To 250, Deduct</i>	-0.16	
			<i>For >250 To 500, Deduct</i>	-0.23	
			<i>For >500 To 1,000, Deduct</i>	-0.35	
			<i>For >1,000, Deduct</i>	-0.47	
			<i>For 316 Stainless Steel, Add</i>	1.63	
			<i>For Aluminum, Add</i>	0.09	
			<i>For Galvanized Steel, Add</i>	0.32	
			<i>For 304 Stainless Steel, Add</i>	1.45	
			<i>For High Strength Steel (HSS), Add</i>	0.53	
05 12 23 00-0443	LF		3/4" x 3/4" x 1/8" Angle Iron.....	2.99	1.77
			<i>For >100 To 250, Deduct</i>	-0.18	
			<i>For >250 To 500, Deduct</i>	-0.25	
			<i>For >500 To 1,000, Deduct</i>	-0.39	
			<i>For >1,000, Deduct</i>	-0.52	
			<i>For 316 Stainless Steel, Add</i>	2.02	
			<i>For Aluminum, Add</i>	0.11	
			<i>For Galvanized Steel, Add</i>	0.39	
			<i>For 304 Stainless Steel, Add</i>	1.80	
			<i>For High Strength Steel (HSS), Add</i>	0.60	
05 12 23 00-0444	LF		1" x 3/4" x 1/8" Angle Iron.....	3.36	1.97
			<i>For >100 To 250, Deduct</i>	-0.20	
			<i>For >250 To 500, Deduct</i>	-0.28	
			<i>For >500 To 1,000, Deduct</i>	-0.43	
			<i>For >1,000, Deduct</i>	-0.58	
			<i>For 316 Stainless Steel, Add</i>	2.34	
			<i>For Aluminum, Add</i>	0.13	
			<i>For Galvanized Steel, Add</i>	0.45	
			<i>For 304 Stainless Steel, Add</i>	2.08	
			<i>For High Strength Steel (HSS), Add</i>	0.67	
05 12 23 00-0445	LF		1" x 1" x 1/8" Angle Iron.....	3.70	2.12
			<i>For >100 To 250, Deduct</i>	-0.21	
			<i>For >250 To 500, Deduct</i>	-0.31	
			<i>For >500 To 1,000, Deduct</i>	-0.47	
			<i>For >1,000, Deduct</i>	-0.63	
			<i>For 316 Stainless Steel, Add</i>	2.75	
			<i>For Aluminum, Add</i>	0.15	
			<i>For Galvanized Steel, Add</i>	0.53	
			<i>For 304 Stainless Steel, Add</i>	2.45	
			<i>For High Strength Steel (HSS), Add</i>	0.74	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0446 LF 1-1/4" x 1-1/4" x 1/8" Angle Iron.....	4.42	2.51
For >100 To 250, Deduct	-0.25	
For >250 To 500, Deduct	-0.36	
For >500 To 1,000, Deduct	-0.56	
For >1,000, Deduct	-0.75	
For 316 Stainless Steel, Add	3.46	
For Aluminum, Add	0.19	
For Galvanized Steel, Add	0.67	
For 304 Stainless Steel, Add	3.08	
For High Strength Steel (HSS), Add	0.88	
05 12 23 00-0447 LF 1-1/2" x 1" x 1/8" Angle Iron.....	4.42	2.51
For >100 To 250, Deduct	-0.25	
For >250 To 500, Deduct	-0.36	
For >500 To 1,000, Deduct	-0.56	
For >1,000, Deduct	-0.75	
For 316 Stainless Steel, Add	3.46	
For Aluminum, Add	0.19	
For Galvanized Steel, Add	0.67	
For 304 Stainless Steel, Add	3.08	
For High Strength Steel (HSS), Add	0.88	
05 12 23 00-0448 LF 1-1/2" x 1-1/2" x 1/8" Angle Iron.....	5.29	3.00
For >100 To 250, Deduct	-0.30	
For >250 To 500, Deduct	-0.43	
For >500 To 1,000, Deduct	-0.66	
For >1,000, Deduct	-0.90	
For 316 Stainless Steel, Add	4.16	
For Aluminum, Add	0.23	
For Galvanized Steel, Add	0.81	
For 304 Stainless Steel, Add	3.71	
For High Strength Steel (HSS), Add	1.06	
05 12 23 00-0449 LF 2" x 2" x 1/8" Angle Iron.....	7.19	4.08
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.59	
For >500 To 1,000, Deduct	-0.90	
For >1,000, Deduct	-1.22	
For 316 Stainless Steel, Add	5.66	
For Aluminum, Add	0.32	
For Galvanized Steel, Add	1.10	
For 304 Stainless Steel, Add	5.04	
For High Strength Steel (HSS), Add	1.44	
05 12 23 00-0450 3/16" Thick <small>(05 12 23 00-0439)</small>		
05 12 23 00-0451 LF 1-1/4" x 1-1/4" x 3/16" Angle Iron.....	5.10	2.65
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.39	
For >500 To 1,000, Deduct	-0.61	
For >1,000, Deduct	-0.82	
For 316 Stainless Steel, Add	5.06	
For Aluminum, Add	0.28	
For Galvanized Steel, Add	0.98	
For 304 Stainless Steel, Add	4.50	
For High Strength Steel (HSS), Add	1.02	
05 12 23 00-0452 LF 1-1/2" x 1" x 3/16" Angle Iron.....	5.10	2.65
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.39	
For >500 To 1,000, Deduct	-0.61	
For >1,000, Deduct	-0.82	
For 316 Stainless Steel, Add	5.06	
For Aluminum, Add	0.28	
For Galvanized Steel, Add	0.98	
For 304 Stainless Steel, Add	4.50	
For High Strength Steel (HSS), Add	1.02	
05 12 23 00-0453 LF 1-1/2" x 1-1/2" x 3/16" Angle Iron.....	5.70	2.84
For >100 To 250, Deduct	-0.28	
For >250 To 500, Deduct	-0.43	
For >500 To 1,000, Deduct	-0.66	
For >1,000, Deduct	-0.90	
For 316 Stainless Steel, Add	6.18	
For Aluminum, Add	0.35	
For Galvanized Steel, Add	1.20	
For 304 Stainless Steel, Add	5.50	
For High Strength Steel (HSS), Add	1.14	
05 12 23 00-0454 LF 2" x 2" x 3/16" Angle Iron.....	6.66	3.04
For >100 To 250, Deduct	-0.30	
For >250 To 500, Deduct	-0.47	
For >500 To 1,000, Deduct	-0.74	
For >1,000, Deduct	-1.00	
For 316 Stainless Steel, Add	8.38	
For Aluminum, Add	0.47	
For Galvanized Steel, Add	1.62	
For 304 Stainless Steel, Add	7.47	
For High Strength Steel (HSS), Add	1.33	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0455	LF		2-1/2" x 2" x 3/16" Angle Iron.....	7.29	3.25
			<i>For >100 To 250, Deduct</i>	-0.33	
			<i>For >250 To 500, Deduct</i>	-0.51	
			<i>For >500 To 1,000, Deduct</i>	-0.80	
			<i>For >1,000, Deduct</i>	-1.09	
			<i>For 316 Stainless Steel, Add</i>	9.44	
			<i>For Aluminum, Add</i>	0.53	
			<i>For Galvanized Steel, Add</i>	1.83	
			<i>For 304 Stainless Steel, Add</i>	8.41	
			<i>For High Strength Steel (HSS), Add</i>	1.46	
05 12 23 00-0456	LF		2-1/2" x 2-1/2" x 3/16" Angle Iron.....	7.95	3.48
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.55	
			<i>For >500 To 1,000, Deduct</i>	-0.86	
			<i>For >1,000, Deduct</i>	-1.18	
			<i>For 316 Stainless Steel, Add</i>	10.56	
			<i>For Aluminum, Add</i>	0.59	
			<i>For Galvanized Steel, Add</i>	2.05	
			<i>For 304 Stainless Steel, Add</i>	9.41	
			<i>For High Strength Steel (HSS), Add</i>	1.59	
05 12 23 00-0457	LF		3" x 2" x 3/16" Angle Iron.....	7.95	3.48
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.55	
			<i>For >500 To 1,000, Deduct</i>	-0.86	
			<i>For >1,000, Deduct</i>	-1.18	
			<i>For 316 Stainless Steel, Add</i>	10.56	
			<i>For Aluminum, Add</i>	0.59	
			<i>For Galvanized Steel, Add</i>	2.05	
			<i>For 304 Stainless Steel, Add</i>	9.41	
			<i>For High Strength Steel (HSS), Add</i>	1.59	
05 12 23 00-0458	LF		3" x 2-1/2" x 3/16" Angle Iron.....	8.77	3.84
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.60	
			<i>For >500 To 1,000, Deduct</i>	-0.95	
			<i>For >1,000, Deduct</i>	-1.30	
			<i>For 316 Stainless Steel, Add</i>	11.65	
			<i>For Aluminum, Add</i>	0.66	
			<i>For Galvanized Steel, Add</i>	2.26	
			<i>For 304 Stainless Steel, Add</i>	10.37	
			<i>For High Strength Steel (HSS), Add</i>	1.75	
05 12 23 00-0459	LF		3" x 3" x 3/16" Angle Iron.....	9.59	4.22
			<i>For >100 To 250, Deduct</i>	-0.42	
			<i>For >250 To 500, Deduct</i>	-0.66	
			<i>For >500 To 1,000, Deduct</i>	-1.04	
			<i>For >1,000, Deduct</i>	-1.42	
			<i>For 316 Stainless Steel, Add</i>	12.74	
			<i>For Aluminum, Add</i>	0.72	
			<i>For Galvanized Steel, Add</i>	2.47	
			<i>For 304 Stainless Steel, Add</i>	11.34	
			<i>For High Strength Steel (HSS), Add</i>	1.92	
05 12 23 00-0460			1/4" Thick (05 12 23 00-0439)		
05 12 23 00-0461	LF		1-1/2" x 1" x 1/4" Angle Iron.....	5.76	2.80
			<i>For >100 To 250, Deduct</i>	-0.28	
			<i>For >250 To 500, Deduct</i>	-0.42	
			<i>For >500 To 1,000, Deduct</i>	-0.66	
			<i>For >1,000, Deduct</i>	-0.90	
			<i>For 316 Stainless Steel, Add</i>	6.53	
			<i>For Aluminum, Add</i>	0.37	
			<i>For Galvanized Steel, Add</i>	1.26	
			<i>For 304 Stainless Steel, Add</i>	5.81	
			<i>For High Strength Steel (HSS), Add</i>	1.15	
05 12 23 00-0462	LF		1-1/2" x 1-1/2" x 1/4" Angle Iron.....	6.47	2.99
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500 To 1,000, Deduct</i>	-0.72	
			<i>For >1,000, Deduct</i>	-0.98	
			<i>For 316 Stainless Steel, Add</i>	7.97	
			<i>For Aluminum, Add</i>	0.45	
			<i>For Galvanized Steel, Add</i>	1.54	
			<i>For 304 Stainless Steel, Add</i>	7.10	
			<i>For High Strength Steel (HSS), Add</i>	1.29	
05 12 23 00-0463	LF		2" x 2" x 1/4" Angle Iron.....	7.67	3.19
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.51	
			<i>For >500 To 1,000, Deduct</i>	-0.81	
			<i>For >1,000, Deduct</i>	-1.11	
			<i>For 316 Stainless Steel, Add</i>	10.94	
			<i>For Aluminum, Add</i>	0.62	
			<i>For Galvanized Steel, Add</i>	2.12	
			<i>For 304 Stainless Steel, Add</i>	9.75	
			<i>For High Strength Steel (HSS), Add</i>	1.53	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0464	LF		2-1/2" x 2" x 1/4" Angle Iron.....	8.60	3.53
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.57	
			<i>For >500 To 1,000, Deduct</i>	-0.90	
			<i>For >1,000, Deduct</i>	-1.23	
			<i>For 316 Stainless Steel, Add</i>	12.45	
			<i>For Aluminum, Add</i>	0.70	
			<i>For Galvanized Steel, Add</i>	2.41	
			<i>For 304 Stainless Steel, Add</i>	11.09	
			<i>For High Strength Steel (HSS), Add</i>	1.72	
05 12 23 00-0465	LF		2-1/2" x 2-1/2" x 1/4" Angle Iron.....	9.55	3.87
			<i>For >100 To 250, Deduct</i>	-0.39	
			<i>For >250 To 500, Deduct</i>	-0.63	
			<i>For >500 To 1,000, Deduct</i>	-0.99	
			<i>For >1,000, Deduct</i>	-1.36	
			<i>For 316 Stainless Steel, Add</i>	14.05	
			<i>For Aluminum, Add</i>	0.79	
			<i>For Galvanized Steel, Add</i>	2.72	
			<i>For 304 Stainless Steel, Add</i>	12.51	
			<i>For High Strength Steel (HSS), Add</i>	1.91	
05 12 23 00-0466	LF		3" x 2" x 1/4" Angle Iron.....	9.55	3.87
			<i>For >100 To 250, Deduct</i>	-0.39	
			<i>For >250 To 500, Deduct</i>	-0.63	
			<i>For >500 To 1,000, Deduct</i>	-0.99	
			<i>For >1,000, Deduct</i>	-1.36	
			<i>For 316 Stainless Steel, Add</i>	14.05	
			<i>For Aluminum, Add</i>	0.79	
			<i>For Galvanized Steel, Add</i>	2.72	
			<i>For 304 Stainless Steel, Add</i>	12.51	
			<i>For High Strength Steel (HSS), Add</i>	1.91	
05 12 23 00-0467	LF		3" x 2-1/2" x 1/4" Angle Iron.....	10.56	4.30
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.69	
			<i>For >500 To 1,000, Deduct</i>	-1.10	
			<i>For >1,000, Deduct</i>	-1.51	
			<i>For 316 Stainless Steel, Add</i>	15.46	
			<i>For Aluminum, Add</i>	0.87	
			<i>For Galvanized Steel, Add</i>	2.99	
			<i>For 304 Stainless Steel, Add</i>	13.77	
			<i>For High Strength Steel (HSS), Add</i>	2.11	
05 12 23 00-0468	LF		3" x 3" x 1/4" Angle Iron.....	11.55	4.72
			<i>For >100 To 250, Deduct</i>	-0.47	
			<i>For >250 To 500, Deduct</i>	-0.76	
			<i>For >500 To 1,000, Deduct</i>	-1.21	
			<i>For >1,000, Deduct</i>	-1.65	
			<i>For 316 Stainless Steel, Add</i>	16.80	
			<i>For Aluminum, Add</i>	0.95	
			<i>For Galvanized Steel, Add</i>	3.26	
			<i>For 304 Stainless Steel, Add</i>	14.96	
			<i>For High Strength Steel (HSS), Add</i>	2.31	
05 12 23 00-0469	LF		3-1/2" x 3" x 1/4" Angle Iron.....	12.55	5.07
			<i>For >100 To 250, Deduct</i>	-0.51	
			<i>For >250 To 500, Deduct</i>	-0.82	
			<i>For >500 To 1,000, Deduct</i>	-1.30	
			<i>For >1,000, Deduct</i>	-1.79	
			<i>For 316 Stainless Steel, Add</i>	18.50	
			<i>For Aluminum, Add</i>	1.04	
			<i>For Galvanized Steel, Add</i>	3.58	
			<i>For 304 Stainless Steel, Add</i>	16.47	
			<i>For High Strength Steel (HSS), Add</i>	2.51	
05 12 23 00-0470	LF		3-1/2" x 3-1/2" x 1/4" Angle Iron.....	13.30	0.53
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-0.86	
			<i>For >500 To 1,000, Deduct</i>	-1.37	
			<i>For >1,000, Deduct</i>	-1.88	
			<i>For 316 Stainless Steel, Add</i>	19.94	
			<i>For Aluminum, Add</i>	1.12	
			<i>For Galvanized Steel, Add</i>	3.86	
			<i>For 304 Stainless Steel, Add</i>	17.76	
			<i>For High Strength Steel (HSS), Add</i>	2.66	
05 12 23 00-0471	LF		4" x 3" x 1/4" Angle Iron.....	13.30	5.30
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-0.86	
			<i>For >500 To 1,000, Deduct</i>	-1.37	
			<i>For >1,000, Deduct</i>	-1.88	
			<i>For 316 Stainless Steel, Add</i>	19.94	
			<i>For Aluminum, Add</i>	1.12	
			<i>For Galvanized Steel, Add</i>	3.86	
			<i>For 304 Stainless Steel, Add</i>	17.76	
			<i>For High Strength Steel (HSS), Add</i>	2.66	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0472	LF		4" x 3-1/2" x 1/4" Angle Iron	14.01	5.52
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-0.90	
			For >500 To 1,000, Deduct	-1.44	
			For >1,000, Deduct	-1.97	
			For 316 Stainless Steel, Add	21.25	
			For Aluminum, Add	1.20	
			For Galvanized Steel, Add	4.12	
			For 304 Stainless Steel, Add	18.92	
			For High Strength Steel (HSS), Add	2.80	
05 12 23 00-0473	LF		4" x 4" x 1/4" Angle Iron	14.77	5.77
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-0.95	
			For >500 To 1,000, Deduct	-1.51	
			For >1,000, Deduct	-2.07	
			For 316 Stainless Steel, Add	22.69	
			For Aluminum, Add	1.28	
			For Galvanized Steel, Add	4.40	
			For 304 Stainless Steel, Add	20.21	
			For High Strength Steel (HSS), Add	2.95	
05 12 23 00-0474	LF		5" x 3" x 1/4" Angle Iron	14.77	5.77
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-0.95	
			For >500 To 1,000, Deduct	-1.51	
			For >1,000, Deduct	-2.07	
			For 316 Stainless Steel, Add	22.69	
			For Aluminum, Add	1.28	
			For Galvanized Steel, Add	4.40	
			For 304 Stainless Steel, Add	20.21	
			For High Strength Steel (HSS), Add	2.95	
05 12 23 00-0475	LF		5" x 3-1/2" x 1/4" Angle Iron	15.59	6.07
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-1.00	
			For >500 To 1,000, Deduct	-1.59	
			For >1,000, Deduct	-2.18	
			For 316 Stainless Steel, Add	24.00	
			For Aluminum, Add	1.35	
			For Galvanized Steel, Add	4.65	
			For 304 Stainless Steel, Add	21.38	
			For High Strength Steel (HSS), Add	3.12	
05 12 23 00-0476			5/16" Thick (05 12 23 00-0439)		
05 12 23 00-0477	LF		2-1/2" x 2" x 5/16" Angle Iron	10.30	4.11
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.67	
			For >500 To 1,000, Deduct	-1.06	
			For >1,000, Deduct	-1.46	
			For 316 Stainless Steel, Add	15.46	
			For Aluminum, Add	0.87	
			For Galvanized Steel, Add	2.99	
			For 304 Stainless Steel, Add	13.77	
			For High Strength Steel (HSS), Add	2.06	
05 12 23 00-0478	LF		2-1/2" x 2-1/2" x 5/16" Angle Iron	11.18	4.35
			For >100 To 250, Deduct	-0.44	
			For >250 To 500, Deduct	-0.72	
			For >500 To 1,000, Deduct	-1.14	
			For >1,000, Deduct	-1.56	
			For 316 Stainless Steel, Add	17.18	
			For Aluminum, Add	0.97	
			For Galvanized Steel, Add	3.33	
			For 304 Stainless Steel, Add	15.30	
			For High Strength Steel (HSS), Add	2.24	
05 12 23 00-0479	LF		3" x 2" x 5/16" Angle Iron	11.18	4.35
			For >100 To 250, Deduct	-0.44	
			For >250 To 500, Deduct	-0.72	
			For >500 To 1,000, Deduct	-1.14	
			For >1,000, Deduct	-1.56	
			For 316 Stainless Steel, Add	17.18	
			For Aluminum, Add	0.97	
			For Galvanized Steel, Add	3.33	
			For 304 Stainless Steel, Add	15.30	
			For High Strength Steel (HSS), Add	2.24	
05 12 23 00-0480	LF		3" x 2-1/2" x 5/16" Angle Iron	12.37	4.77
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.79	
			For >500 To 1,000, Deduct	-1.25	
			For >1,000, Deduct	-1.72	
			For 316 Stainless Steel, Add	19.23	
			For Aluminum, Add	1.08	
			For Galvanized Steel, Add	3.73	
			For 304 Stainless Steel, Add	17.13	
			For High Strength Steel (HSS), Add	2.47	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0481 LF 3" x 3" x 5/16" Angle Iron.....	13.46	5.18
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-0.85	
For >500 To 1,000, Deduct	-1.36	
For >1,000, Deduct	-1.87	
For 316 Stainless Steel, Add	20.96	
For Aluminum, Add	1.18	
For Galvanized Steel, Add	4.06	
For 304 Stainless Steel, Add	18.67	
For High Strength Steel (HSS), Add	2.69	
05 12 23 00-0482 LF 3-1/2" x 3" x 5/16" Angle Iron.....	14.35	5.45
For >100 To 250, Deduct	-0.54	
For >250 To 500, Deduct	-0.90	
For >500 To 1,000, Deduct	-1.44	
For >1,000, Deduct	-1.98	
For 316 Stainless Steel, Add	22.69	
For Aluminum, Add	1.28	
For Galvanized Steel, Add	4.40	
For 304 Stainless Steel, Add	20.21	
For High Strength Steel (HSS), Add	2.87	
05 12 23 00-0483 LF 3-1/2" x 3-1/2" x 5/16" Angle Iron.....	15.34	5.72
For >100 To 250, Deduct	-0.57	
For >250 To 500, Deduct	-0.96	
For >500 To 1,000, Deduct	-1.53	
For >1,000, Deduct	-2.10	
For 316 Stainless Steel, Add	24.67	
For Aluminum, Add	1.39	
For Galvanized Steel, Add	4.78	
For 304 Stainless Steel, Add	21.97	
For High Strength Steel (HSS), Add	3.07	
05 12 23 00-0484 LF 4" x 3" x 5/16" Angle Iron.....	15.34	5.72
For >100 To 250, Deduct	-0.57	
For >250 To 500, Deduct	-0.96	
For >500 To 1,000, Deduct	-1.53	
For >1,000, Deduct	-2.10	
For 316 Stainless Steel, Add	24.67	
For Aluminum, Add	1.39	
For Galvanized Steel, Add	4.78	
For 304 Stainless Steel, Add	21.97	
For High Strength Steel (HSS), Add	3.07	
05 12 23 00-0485 LF 4" x 3-1/2" x 5/16" Angle Iron.....	16.31	6.05
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-1.01	
For >500 To 1,000, Deduct	-1.62	
For >1,000, Deduct	-2.23	
For 316 Stainless Steel, Add	26.40	
For Aluminum, Add	1.49	
For Galvanized Steel, Add	5.12	
For 304 Stainless Steel, Add	23.51	
For High Strength Steel (HSS), Add	3.26	
05 12 23 00-0486 LF 4" x 4" x 5/16" Angle Iron.....	17.22	6.31
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-1.06	
For >500 To 1,000, Deduct	-1.70	
For >1,000, Deduct	-2.34	
For 316 Stainless Steel, Add	28.16	
For Aluminum, Add	1.58	
For Galvanized Steel, Add	5.46	
For 304 Stainless Steel, Add	25.08	
For High Strength Steel (HSS), Add	3.44	
05 12 23 00-0487 LF 5" x 3" x 5/16" Angle Iron.....	17.22	6.31
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-1.06	
For >500 To 1,000, Deduct	-1.70	
For >1,000, Deduct	-2.34	
For 316 Stainless Steel, Add	28.16	
For Aluminum, Add	1.58	
For Galvanized Steel, Add	5.46	
For 304 Stainless Steel, Add	25.08	
For High Strength Steel (HSS), Add	3.44	
05 12 23 00-0488 LF 5" x 3-1/2" x 5/16" Angle Iron.....	18.09	6.58
For >100 To 250, Deduct	-0.66	
For >250 To 500, Deduct	-1.11	
For >500 To 1,000, Deduct	-1.78	
For >1,000, Deduct	-2.45	
For 316 Stainless Steel, Add	29.82	
For Aluminum, Add	1.68	
For Galvanized Steel, Add	5.78	
For 304 Stainless Steel, Add	26.56	
For High Strength Steel (HSS), Add	3.62	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0489	LF		5" x 5" x 5/16" Angle Iron	20.20	6.85
			<i>For >100 To 250, Deduct</i>	-0.69	
			<i>For >250 To 500, Deduct</i>	-1.19	
			<i>For >500 To 1,000, Deduct</i>	-1.92	
			<i>For >1,000, Deduct</i>	-2.66	
			<i>For 316 Stainless Steel, Add</i>	35.39	
			<i>For Aluminum, Add</i>	1.99	
			<i>For Galvanized Steel, Add</i>	6.86	
			<i>For 304 Stainless Steel, Add</i>	31.52	
			<i>For High Strength Steel (HSS), Add</i>	4.04	
05 12 23 00-0490	LF		6" x 3-1/2" x 5/16" Angle Iron	20.01	7.14
			<i>For >100 To 250, Deduct</i>	-0.71	
			<i>For >250 To 500, Deduct</i>	-1.21	
			<i>For >500 To 1,000, Deduct</i>	-1.95	
			<i>For >1,000, Deduct</i>	-2.69	
			<i>For 316 Stainless Steel, Add</i>	33.57	
			<i>For Aluminum, Add</i>	1.89	
			<i>For Galvanized Steel, Add</i>	6.50	
			<i>For 304 Stainless Steel, Add</i>	29.90	
			<i>For High Strength Steel (HSS), Add</i>	4.00	
05 12 23 00-0491			3/8" Thick (05 12 23 00-0491)		
05 12 23 00-0492	LF		3" x 2" x 3/8" Angle Iron	12.39	4.56
			<i>For >100 To 250, Deduct</i>	-0.46	
			<i>For >250 To 500, Deduct</i>	-0.77	
			<i>For >500 To 1,000, Deduct</i>	-1.23	
			<i>For >1,000, Deduct</i>	-1.69	
			<i>For 316 Stainless Steel, Add</i>	20.22	
			<i>For Aluminum, Add</i>	1.14	
			<i>For Galvanized Steel, Add</i>	3.92	
			<i>For 304 Stainless Steel, Add</i>	18.01	
			<i>For High Strength Steel (HSS), Add</i>	2.48	
05 12 23 00-0493	LF		3" x 2-1/2" x 3/8" Angle Iron	13.67	4.93
			<i>For >100 To 250, Deduct</i>	-0.49	
			<i>For >250 To 500, Deduct</i>	-0.84	
			<i>For >500 To 1,000, Deduct</i>	-1.34	
			<i>For >1,000, Deduct</i>	-1.85	
			<i>For 316 Stainless Steel, Add</i>	22.69	
			<i>For Aluminum, Add</i>	1.28	
			<i>For Galvanized Steel, Add</i>	4.40	
			<i>For 304 Stainless Steel, Add</i>	20.21	
			<i>For High Strength Steel (HSS), Add</i>	2.73	
05 12 23 00-0494	LF		3" x 3" x 3/8" Angle Iron	14.79	5.31
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-0.90	
			<i>For >500 To 1,000, Deduct</i>	-1.45	
			<i>For >1,000, Deduct</i>	-1.99	
			<i>For 316 Stainless Steel, Add</i>	24.67	
			<i>For Aluminum, Add</i>	1.39	
			<i>For Galvanized Steel, Add</i>	4.78	
			<i>For 304 Stainless Steel, Add</i>	21.97	
			<i>For High Strength Steel (HSS), Add</i>	2.96	
05 12 23 00-0495	LF		3-1/2" x 3" x 3/8" Angle Iron	15.75	5.46
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-0.94	
			<i>For >500 To 1,000, Deduct</i>	-1.51	
			<i>For >1,000, Deduct</i>	-2.09	
			<i>For 316 Stainless Steel, Add</i>	27.14	
			<i>For Aluminum, Add</i>	1.53	
			<i>For Galvanized Steel, Add</i>	5.26	
			<i>For 304 Stainless Steel, Add</i>	24.17	
			<i>For High Strength Steel (HSS), Add</i>	3.15	
05 12 23 00-0496	LF		3-1/2" x 3-1/2" x 3/8" Angle Iron	16.78	5.76
			<i>For >100 To 250, Deduct</i>	-0.58	
			<i>For >250 To 500, Deduct</i>	-1.00	
			<i>For >500 To 1,000, Deduct</i>	-1.61	
			<i>For >1,000, Deduct</i>	-2.22	
			<i>For 316 Stainless Steel, Add</i>	29.12	
			<i>For Aluminum, Add</i>	1.64	
			<i>For Galvanized Steel, Add</i>	5.64	
			<i>For 304 Stainless Steel, Add</i>	25.94	
			<i>For High Strength Steel (HSS), Add</i>	3.36	
05 12 23 00-0497	LF		4" x 3" x 3/8" Angle Iron	16.78	5.76
			<i>For >100 To 250, Deduct</i>	-0.58	
			<i>For >250 To 500, Deduct</i>	-1.00	
			<i>For >500 To 1,000, Deduct</i>	-1.61	
			<i>For >1,000, Deduct</i>	-2.22	
			<i>For 316 Stainless Steel, Add</i>	29.12	
			<i>For Aluminum, Add</i>	1.64	
			<i>For Galvanized Steel, Add</i>	5.64	
			<i>For 304 Stainless Steel, Add</i>	25.94	
			<i>For High Strength Steel (HSS), Add</i>	3.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0498 LF 4" x 3-1/2" x 3/8" Angle Iron.....	18.10	6.27
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-1.08	
For >500 To 1,000, Deduct	-1.74	
For >1,000, Deduct	-2.40	
For 316 Stainless Steel, Add	31.17	
For Aluminum, Add	1.75	
For Galvanized Steel, Add	6.04	
For 304 Stainless Steel, Add	27.76	
For High Strength Steel (HSS), Add	3.62	
05 12 23 00-0499 LF 4" x 4" x 3/8" Angle Iron.....	19.09	6.46
For >100 To 250, Deduct	-0.65	
For >250 To 500, Deduct	-1.12	
For >500 To 1,000, Deduct	-1.81	
For >1,000, Deduct	-2.51	
For 316 Stainless Steel, Add	33.57	
For Aluminum, Add	1.89	
For Galvanized Steel, Add	6.50	
For 304 Stainless Steel, Add	29.90	
For High Strength Steel (HSS), Add	3.82	
05 12 23 00-0500 LF 5" x 3" x 3/8" Angle Iron.....	19.44	6.71
For >100 To 250, Deduct	-0.67	
For >250 To 500, Deduct	-1.16	
For >500 To 1,000, Deduct	-1.87	
For >1,000, Deduct	-2.58	
For 316 Stainless Steel, Add	33.57	
For Aluminum, Add	1.89	
For Galvanized Steel, Add	6.50	
For 304 Stainless Steel, Add	29.90	
For High Strength Steel (HSS), Add	3.89	
05 12 23 00-0501 LF 5" x 3-1/2" x 3/8" Angle Iron.....	20.79	7.23
For >100 To 250, Deduct	-0.72	
For >250 To 500, Deduct	-1.24	
For >500 To 1,000, Deduct	-2.00	
For >1,000, Deduct	-2.77	
For 316 Stainless Steel, Add	35.65	
For Aluminum, Add	2.01	
For Galvanized Steel, Add	6.91	
For 304 Stainless Steel, Add	31.75	
For High Strength Steel (HSS), Add	4.16	
05 12 23 00-0502 LF 5" x 5" x 3/8" Angle Iron.....	24.44	8.43
For >100 To 250, Deduct	-0.84	
For >250 To 500, Deduct	-1.45	
For >500 To 1,000, Deduct	-2.35	
For >1,000, Deduct	-3.24	
For 316 Stainless Steel, Add	42.24	
For Aluminum, Add	2.38	
For Galvanized Steel, Add	8.18	
For 304 Stainless Steel, Add	37.62	
For High Strength Steel (HSS), Add	4.89	
05 12 23 00-0503 LF 6" x 3-1/2" x 3/8" Angle Iron.....	22.97	7.84
For >100 To 250, Deduct	-0.78	
For >250 To 500, Deduct	-1.36	
For >500 To 1,000, Deduct	-2.19	
For >1,000, Deduct	-3.03	
For 316 Stainless Steel, Add	40.10	
For Aluminum, Add	2.26	
For Galvanized Steel, Add	7.77	
For 304 Stainless Steel, Add	35.71	
For High Strength Steel (HSS), Add	4.59	
05 12 23 00-0504 LF 6" x 4" x 3/8" Angle Iron.....	24.44	8.43
For >100 To 250, Deduct	-0.84	
For >250 To 500, Deduct	-1.45	
For >500 To 1,000, Deduct	-2.35	
For >1,000, Deduct	-3.24	
For 316 Stainless Steel, Add	42.24	
For Aluminum, Add	2.38	
For Galvanized Steel, Add	8.18	
For 304 Stainless Steel, Add	37.62	
For High Strength Steel (HSS), Add	4.89	
05 12 23 00-0505 LF 6" x 6" x 3/8" Angle Iron.....	29.48	10.12
For >100 To 250, Deduct	-1.01	
For >250 To 500, Deduct	-1.75	
For >500 To 1,000, Deduct	-2.82	
For >1,000, Deduct	-3.90	
For 316 Stainless Steel, Add	51.20	
For Aluminum, Add	2.88	
For Galvanized Steel, Add	9.92	
For 304 Stainless Steel, Add	45.60	
For High Strength Steel (HSS), Add	5.90	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0506	LF		7" x 4" x 3/8" Angle Iron	26.97	9.28
			For >100 To 250, Deduct	-0.93	
			For >250 To 500, Deduct	-1.60	
			For >500 To 1,000, Deduct	-2.59	
			For >1,000, Deduct	-3.57	
			For 316 Stainless Steel, Add	46.72	
			For Aluminum, Add	2.63	
			For Galvanized Steel, Add	9.05	
			For 304 Stainless Steel, Add	41.61	
			For High Strength Steel (HSS), Add	5.39	
05 12 23 00-0507			1/2" Thick (05 12 23 00-0439)		
05 12 23 00-0508	LF		3" x 3" x 1/2" Angle Iron	17.32	5.42
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-0.98	
			For >500 To 1,000, Deduct	-1.59	
			For >1,000, Deduct	-2.20	
			For 316 Stainless Steel, Add	32.29	
			For Aluminum, Add	1.82	
			For Galvanized Steel, Add	6.26	
			For 304 Stainless Steel, Add	28.76	
			For High Strength Steel (HSS), Add	3.46	
05 12 23 00-0509	LF		4" x 3" x 1/2" Angle Iron	20.46	6.41
			For >100 To 250, Deduct	-0.64	
			For >250 To 500, Deduct	-1.15	
			For >500 To 1,000, Deduct	-1.88	
			For >1,000, Deduct	-2.60	
			For 316 Stainless Steel, Add	38.14	
			For Aluminum, Add	2.15	
			For Galvanized Steel, Add	7.39	
			For 304 Stainless Steel, Add	33.97	
			For High Strength Steel (HSS), Add	4.09	
05 12 23 00-0510	LF		4" x 3-1/2" x 1/2" Angle Iron	21.93	6.87
			For >100 To 250, Deduct	-0.69	
			For >250 To 500, Deduct	-1.24	
			For >500 To 1,000, Deduct	-2.01	
			For >1,000, Deduct	-2.79	
			For 316 Stainless Steel, Add	40.86	
			For Aluminum, Add	2.30	
			For Galvanized Steel, Add	7.92	
			For 304 Stainless Steel, Add	36.39	
			For High Strength Steel (HSS), Add	4.39	
05 12 23 00-0511	LF		4" x 4" x 1/2" Angle Iron	23.59	7.40
			For >100 To 250, Deduct	-0.74	
			For >250 To 500, Deduct	-1.33	
			For >500 To 1,000, Deduct	-2.16	
			For >1,000, Deduct	-3.00	
			For 316 Stainless Steel, Add	43.97	
			For Aluminum, Add	2.47	
			For Galvanized Steel, Add	8.52	
			For 304 Stainless Steel, Add	39.16	
			For High Strength Steel (HSS), Add	4.72	
05 12 23 00-0512	LF		5" x 3" x 1/2" Angle Iron	23.59	7.40
			For >100 To 250, Deduct	-0.74	
			For >250 To 500, Deduct	-1.33	
			For >500 To 1,000, Deduct	-2.16	
			For >1,000, Deduct	-3.00	
			For 316 Stainless Steel, Add	43.97	
			For Aluminum, Add	2.47	
			For Galvanized Steel, Add	8.52	
			For 304 Stainless Steel, Add	39.16	
			For High Strength Steel (HSS), Add	4.72	
05 12 23 00-0513	LF		5" x 3-1/2" x 1/2" Angle Iron	25.06	7.85
			For >100 To 250, Deduct	-0.78	
			For >250 To 500, Deduct	-1.41	
			For >500 To 1,000, Deduct	-2.30	
			For >1,000, Deduct	-3.19	
			For 316 Stainless Steel, Add	46.72	
			For Aluminum, Add	2.63	
			For Galvanized Steel, Add	9.05	
			For 304 Stainless Steel, Add	41.61	
			For High Strength Steel (HSS), Add	5.01	
05 12 23 00-0514	LF		5" x 5" x 1/2" Angle Iron	29.87	9.36
			For >100 To 250, Deduct	-0.94	
			For >250 To 500, Deduct	-1.68	
			For >500 To 1,000, Deduct	-2.74	
			For >1,000, Deduct	-3.80	
			For 316 Stainless Steel, Add	55.65	
			For Aluminum, Add	3.13	
			For Galvanized Steel, Add	10.78	
			For 304 Stainless Steel, Add	49.56	
			For High Strength Steel (HSS), Add	5.97	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0515	LF		6" x 4" x 1/2" Angle Iron	29.87	9.36
			<i>For >100 To 250, Deduct</i>	-0.94	
			<i>For >250 To 500, Deduct</i>	-1.68	
			<i>For >500 To 1,000, Deduct</i>	-2.74	
			<i>For >1,000, Deduct</i>	-3.80	
			<i>For 316 Stainless Steel, Add</i>	55.65	
			<i>For Aluminum, Add</i>	3.13	
			<i>For Galvanized Steel, Add</i>	10.78	
			<i>For 304 Stainless Steel, Add</i>	49.56	
			<i>For High Strength Steel (HSS), Add</i>	5.97	
05 12 23 00-0516	LF		6" x 6" x 1/2" Angle Iron	36.13	11.31
			<i>For >100 To 250, Deduct</i>	-1.13	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500 To 1,000, Deduct</i>	-3.32	
			<i>For >1,000, Deduct</i>	-4.60	
			<i>For 316 Stainless Steel, Add</i>	67.33	
			<i>For Aluminum, Add</i>	3.79	
			<i>For Galvanized Steel, Add</i>	13.04	
			<i>For 304 Stainless Steel, Add</i>	59.96	
			<i>For High Strength Steel (HSS), Add</i>	7.23	
05 12 23 00-0517	LF		7" x 4" x 1/2" Angle Iron	32.99	10.33
			<i>For >100 To 250, Deduct</i>	-1.03	
			<i>For >250 To 500, Deduct</i>	-1.86	
			<i>For >500 To 1,000, Deduct</i>	-3.03	
			<i>For >1,000, Deduct</i>	-4.20	
			<i>For 316 Stainless Steel, Add</i>	61.47	
			<i>For Aluminum, Add</i>	3.46	
			<i>For Galvanized Steel, Add</i>	11.91	
			<i>For 304 Stainless Steel, Add</i>	54.75	
			<i>For High Strength Steel (HSS), Add</i>	6.60	
05 12 23 00-0518	LF		8" x 4" x 1/2" Angle Iron	36.13	11.31
			<i>For >100 To 250, Deduct</i>	-1.13	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500 To 1,000, Deduct</i>	-3.32	
			<i>For >1,000, Deduct</i>	-4.60	
			<i>For 316 Stainless Steel, Add</i>	67.33	
			<i>For Aluminum, Add</i>	3.79	
			<i>For Galvanized Steel, Add</i>	13.04	
			<i>For 304 Stainless Steel, Add</i>	59.96	
			<i>For High Strength Steel (HSS), Add</i>	7.23	
05 12 23 00-0519	LF		8" x 6" x 1/2" Angle Iron	42.40	13.28
			<i>For >100 To 250, Deduct</i>	-1.33	
			<i>For >250 To 500, Deduct</i>	-2.39	
			<i>For >500 To 1,000, Deduct</i>	-3.89	
			<i>For >1,000, Deduct</i>	-5.39	
			<i>For 316 Stainless Steel, Add</i>	79.01	
			<i>For Aluminum, Add</i>	4.44	
			<i>For Galvanized Steel, Add</i>	15.31	
			<i>For 304 Stainless Steel, Add</i>	70.37	
			<i>For High Strength Steel (HSS), Add</i>	8.48	
05 12 23 00-0520	LF		8" x 8" x 1/2" Angle Iron	48.67	15.24
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500 To 1,000, Deduct</i>	-4.47	
			<i>For >1,000, Deduct</i>	-6.19	
			<i>For 316 Stainless Steel, Add</i>	90.69	
			<i>For Aluminum, Add</i>	5.10	
			<i>For Galvanized Steel, Add</i>	17.57	
			<i>For 304 Stainless Steel, Add</i>	80.77	
			<i>For High Strength Steel (HSS), Add</i>	9.73	
05 12 23 00-0521			5/8" Thick <small>(05 12 23 00-0439)</small>		
05 12 23 00-0522	LF		4" x 4" x 5/8" Angle Iron	28.15	8.47
			<i>For >100 To 250, Deduct</i>	-0.85	
			<i>For >250 To 500, Deduct</i>	-1.55	
			<i>For >500 To 1,000, Deduct</i>	-2.54	
			<i>For >1,000, Deduct</i>	-3.52	
			<i>For 316 Stainless Steel, Add</i>	53.92	
			<i>For Aluminum, Add</i>	3.03	
			<i>For Galvanized Steel, Add</i>	10.45	
			<i>For High Strength Steel (HSS), Add</i>	5.63	
05 12 23 00-0523	LF		5" x 3-1/2" x 5/8" Angle Iron	30.12	9.07
			<i>For >100 To 250, Deduct</i>	-0.91	
			<i>For >250 To 500, Deduct</i>	-1.66	
			<i>For >500 To 1,000, Deduct</i>	-2.71	
			<i>For >1,000, Deduct</i>	-3.77	
			<i>For 316 Stainless Steel, Add</i>	57.73	
			<i>For Aluminum, Add</i>	3.25	
			<i>For Galvanized Steel, Add</i>	11.18	
			<i>For High Strength Steel (HSS), Add</i>	6.02	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0524	LF		5" x 5" x 5/8" Angle Iron	35.86	10.80
			For >100 To 250, Deduct	-1.08	
			For >250 To 500, Deduct	-1.98	
			For >500 To 1,000, Deduct	-3.23	
			For >1,000, Deduct	-4.49	
			For 316 Stainless Steel, Add	68.70	
			For Aluminum, Add	3.86	
			For Galvanized Steel, Add	13.31	
			For High Strength Steel (HSS), Add	7.17	
05 12 23 00-0525	LF		6" x 4" x 5/8" Angle Iron	35.86	10.80
			For >100 To 250, Deduct	-1.08	
			For >250 To 500, Deduct	-1.98	
			For >500 To 1,000, Deduct	-3.23	
			For >1,000, Deduct	-4.49	
			For 316 Stainless Steel, Add	68.70	
			For Aluminum, Add	3.86	
			For Galvanized Steel, Add	13.31	
			For High Strength Steel (HSS), Add	7.17	
05 12 23 00-0526	LF		6" x 6" x 5/8" Angle Iron	43.39	13.06
			For >100 To 250, Deduct	-1.31	
			For >250 To 500, Deduct	-2.39	
			For >500 To 1,000, Deduct	-3.91	
			For >1,000, Deduct	-5.43	
			For 316 Stainless Steel, Add	83.14	
			For Aluminum, Add	4.68	
			For Galvanized Steel, Add	16.11	
			For High Strength Steel (HSS), Add	8.68	
05 12 23 00-0527	LF		7" x 4" x 5/8" Angle Iron	39.62	11.92
			For >100 To 250, Deduct	-1.19	
			For >250 To 500, Deduct	-2.18	
			For >500 To 1,000, Deduct	-3.57	
			For >1,000, Deduct	-4.96	
			For 316 Stainless Steel, Add	75.90	
			For Aluminum, Add	4.27	
			For Galvanized Steel, Add	14.71	
			For High Strength Steel (HSS), Add	7.92	
05 12 23 00-0528	LF		8" x 6" x 5/8" Angle Iron	51.10	15.38
			For >100 To 250, Deduct	-1.54	
			For >250 To 500, Deduct	-2.82	
			For >500 To 1,000, Deduct	-4.61	
			For >1,000, Deduct	-6.40	
			For 316 Stainless Steel, Add	97.89	
			For Aluminum, Add	5.51	
			For Galvanized Steel, Add	18.97	
			For High Strength Steel (HSS), Add	10.22	
05 12 23 00-0529	LF		8" x 8" x 5/8" Angle Iron	58.64	17.65
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-3.23	
			For >500 To 1,000, Deduct	-5.29	
			For >1,000, Deduct	-7.34	
			For 316 Stainless Steel, Add	112.35	
			For Aluminum, Add	6.32	
			For Galvanized Steel, Add	21.77	
			For High Strength Steel (HSS), Add	11.73	
05 12 23 00-0530			3/4" Thick (05 12 23 00-0439)		
05 12 23 00-0531	LF		4" x 4" x 3/4" Angle Iron	32.36	9.36
			For >100 To 250, Deduct	-0.94	
			For >250 To 500, Deduct	-1.75	
			For >500 To 1,000, Deduct	-2.87	
			For >1,000, Deduct	-3.99	
			For 316 Stainless Steel, Add	63.58	
			For Aluminum, Add	3.58	
			For Galvanized Steel, Add	12.32	
			For High Strength Steel (HSS), Add	6.47	
05 12 23 00-0532	LF		5" x 3-1/2" x 3/4" Angle Iron	34.60	10.02
			For >100 To 250, Deduct	-1.00	
			For >250 To 500, Deduct	-1.87	
			For >500 To 1,000, Deduct	-3.07	
			For >1,000, Deduct	-4.26	
			For 316 Stainless Steel, Add	68.00	
			For Aluminum, Add	3.83	
			For Galvanized Steel, Add	13.18	
			For High Strength Steel (HSS), Add	6.92	
05 12 23 00-0533	LF		5" x 5" x 3/4" Angle Iron	41.26	11.94
			For >100 To 250, Deduct	-1.19	
			For >250 To 500, Deduct	-2.23	
			For >500 To 1,000, Deduct	-3.66	
			For >1,000, Deduct	-5.08	
			For 316 Stainless Steel, Add	81.09	
			For Aluminum, Add	4.56	
			For Galvanized Steel, Add	15.71	
			For High Strength Steel (HSS), Add	8.25	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0534	LF		6" x 4" x 3/4" Angle Iron	41.26	11.94
			<i>For >100 To 250, Deduct</i>	-1.19	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500 To 1,000, Deduct</i>	-3.66	
			<i>For >1,000, Deduct</i>	-5.08	
			<i>For 316 Stainless Steel, Add</i>	81.09	
			<i>For Aluminum, Add</i>	4.56	
			<i>For Galvanized Steel, Add</i>	15.71	
			<i>For High Strength Steel (HSS), Add</i>	8.25	
05 12 23 00-0535	LF		6" x 6" x 3/4" Angle Iron	50.17	14.52
			<i>For >100 To 250, Deduct</i>	-1.45	
			<i>For >250 To 500, Deduct</i>	-2.71	
			<i>For >500 To 1,000, Deduct</i>	-4.44	
			<i>For >1,000, Deduct</i>	-6.18	
			<i>For 316 Stainless Steel, Add</i>	98.59	
			<i>For Aluminum, Add</i>	5.55	
			<i>For Galvanized Steel, Add</i>	19.10	
			<i>For High Strength Steel (HSS), Add</i>	10.03	
05 12 23 00-0536	LF		7" x 4" x 3/4" Angle Iron	45.79	13.26
			<i>For >100 To 250, Deduct</i>	-1.33	
			<i>For >250 To 500, Deduct</i>	-2.47	
			<i>For >500 To 1,000, Deduct</i>	-4.06	
			<i>For >1,000, Deduct</i>	-5.64	
			<i>For 316 Stainless Steel, Add</i>	89.98	
			<i>For Aluminum, Add</i>	5.06	
			<i>For Galvanized Steel, Add</i>	17.43	
			<i>For High Strength Steel (HSS), Add</i>	9.16	
05 12 23 00-0537	LF		8" x 4" x 3/4" Angle Iron	50.17	14.52
			<i>For >100 To 250, Deduct</i>	-1.45	
			<i>For >250 To 500, Deduct</i>	-2.71	
			<i>For >500 To 1,000, Deduct</i>	-4.44	
			<i>For >1,000, Deduct</i>	-6.18	
			<i>For 316 Stainless Steel, Add</i>	98.59	
			<i>For Aluminum, Add</i>	5.55	
			<i>For Galvanized Steel, Add</i>	19.10	
			<i>For High Strength Steel (HSS), Add</i>	10.03	
05 12 23 00-0538	LF		8" x 6" x 3/4" Angle Iron	59.09	17.10
			<i>For >100 To 250, Deduct</i>	-1.71	
			<i>For >250 To 500, Deduct</i>	-3.19	
			<i>For >500 To 1,000, Deduct</i>	-5.23	
			<i>For >1,000, Deduct</i>	-7.28	
			<i>For 316 Stainless Steel, Add</i>	116.13	
			<i>For Aluminum, Add</i>	6.53	
			<i>For Galvanized Steel, Add</i>	22.50	
			<i>For High Strength Steel (HSS), Add</i>	11.82	
05 12 23 00-0539	LF		8" x 8" x 3/4" Angle Iron	68.00	19.68
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-3.67	
			<i>For >500 To 1,000, Deduct</i>	-6.02	
			<i>For >1,000, Deduct</i>	-8.38	
			<i>For 316 Stainless Steel, Add</i>	133.63	
			<i>For Aluminum, Add</i>	7.52	
			<i>For Galvanized Steel, Add</i>	25.89	
			<i>For High Strength Steel (HSS), Add</i>	13.60	
05 12 23 00-0540			7/8" Thick <small>(05 12 23 00-0439)</small>		
05 12 23 00-0541	LF		5" x 5" x 7/8" Angle Iron	46.32	12.84
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-2.44	
			<i>For >500 To 1,000, Deduct</i>	-4.03	
			<i>For >1,000, Deduct</i>	-5.62	
			<i>For 316 Stainless Steel, Add</i>	93.41	
			<i>For Aluminum, Add</i>	5.25	
			<i>For Galvanized Steel, Add</i>	18.10	
			<i>For High Strength Steel (HSS), Add</i>	9.26	
05 12 23 00-0542	LF		6" x 4" x 7/8" Angle Iron	46.32	12.84
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-2.44	
			<i>For >500 To 1,000, Deduct</i>	-4.03	
			<i>For >1,000, Deduct</i>	-5.62	
			<i>For 316 Stainless Steel, Add</i>	93.41	
			<i>For Aluminum, Add</i>	5.25	
			<i>For Galvanized Steel, Add</i>	18.10	
			<i>For High Strength Steel (HSS), Add</i>	9.26	
05 12 23 00-0543	LF		6" x 6" x 7/8" Angle Iron	56.37	15.64
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-2.97	
			<i>For >500 To 1,000, Deduct</i>	-4.90	
			<i>For >1,000, Deduct</i>	-6.83	
			<i>For 316 Stainless Steel, Add</i>	113.70	
			<i>For Aluminum, Add</i>	6.40	
			<i>For Galvanized Steel, Add</i>	22.03	
			<i>For High Strength Steel (HSS), Add</i>	11.27	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0544	LF		8" x 6" x 7/8" Angle Iron	66.59	18.46
			<i>For >100 To 250, Deduct</i>	-1.85	
			<i>For >250 To 500, Deduct</i>	-3.51	
			<i>For >500 To 1,000, Deduct</i>	-5.79	
			<i>For >1,000, Deduct</i>	-8.07	
			<i>For 316 Stainless Steel, Add</i>	134.34	
			<i>For Aluminum, Add</i>	7.56	
			<i>For Galvanized Steel, Add</i>	26.03	
			<i>For High Strength Steel (HSS), Add</i>	13.32	
05 12 23 00-0545	LF		8" x 8" x 7/8" Angle Iron	76.64	21.25
			<i>For >100 To 250, Deduct</i>	-2.13	
			<i>For >250 To 500, Deduct</i>	-4.04	
			<i>For >500 To 1,000, Deduct</i>	-6.67	
			<i>For >1,000, Deduct</i>	-9.29	
			<i>For 316 Stainless Steel, Add</i>	154.56	
			<i>For Aluminum, Add</i>	8.69	
			<i>For Galvanized Steel, Add</i>	29.95	
			<i>For High Strength Steel (HSS), Add</i>	15.33	
05 12 23 00-0546			Bar Channel <small>(05 12 23 00-0438)</small>		
05 12 23 00-0547	LF		1" x 1/2" x 1/8" Thick Bar Channel	4.01	
			<i>For 316 Stainless Steel, Add</i>	3.74	
			<i>For Aluminum, Add</i>	0.21	
			<i>For Galvanized Steel, Add</i>	0.73	
			<i>For 304 Stainless Steel, Add</i>	3.33	
			<i>For High Strength Steel (HSS), Add</i>	0.80	
05 12 23 00-0548	LF		1-1/4" x 1/2" x 1/8" Thick Bar Channel	4.49	
			<i>For 316 Stainless Steel, Add</i>	4.48	
			<i>For Aluminum, Add</i>	0.25	
			<i>For Galvanized Steel, Add</i>	0.87	
			<i>For 304 Stainless Steel, Add</i>	3.99	
			<i>For High Strength Steel (HSS), Add</i>	0.90	
05 12 23 00-0549	LF		1-1/2" x 1/2" x 1/8" Thick Bar Channel	4.89	
			<i>For 316 Stainless Steel, Add</i>	4.96	
			<i>For Aluminum, Add</i>	0.28	
			<i>For Galvanized Steel, Add</i>	0.96	
			<i>For 304 Stainless Steel, Add</i>	4.42	
			<i>For High Strength Steel (HSS), Add</i>	0.98	
05 12 23 00-0550	LF		1-1/2" x 3/4" x 1/8" Thick Bar Channel	5.60	
			<i>For 316 Stainless Steel, Add</i>	5.15	
			<i>For Aluminum, Add</i>	0.29	
			<i>For Galvanized Steel, Add</i>	1.00	
			<i>For 304 Stainless Steel, Add</i>	4.59	
			<i>For High Strength Steel (HSS), Add</i>	1.12	
05 12 23 00-0551	LF		2" x 1/2" x 1/8" Thick Bar Channel	5.97	
			<i>For 316 Stainless Steel, Add</i>	6.34	
			<i>For Aluminum, Add</i>	0.36	
			<i>For Galvanized Steel, Add</i>	1.23	
			<i>For 304 Stainless Steel, Add</i>	5.64	
05 12 23 00-0552	LF		2" x 1" x 1/8" Thick Bar Channel	7.92	
			<i>For 316 Stainless Steel, Add</i>	7.07	
			<i>For Aluminum, Add</i>	0.40	
			<i>For Galvanized Steel, Add</i>	1.37	
			<i>For 304 Stainless Steel, Add</i>	6.30	
05 12 23 00-0553			Channels - C <small>(05 12 23 00-0438)</small>		
05 12 23 00-0554	LF		C2 x 1.78 - 2" Wide Channel	6.57	3.52
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.52	
			<i>For >500 To 1,000, Deduct</i>	-0.80	
			<i>For >1,000, Deduct</i>	-1.08	
			<i>For 316 Stainless Steel, Add</i>	6.02	
			<i>For Aluminum, Add</i>	0.34	
			<i>For Galvanized Steel, Add</i>	1.17	
			<i>For 304 Stainless Steel, Add</i>	5.36	
05 12 23 00-0555	LF		C3 x 4.1 - 3" Wide Channel	11.14	5.05
			<i>For >100 To 250, Deduct</i>	-0.51	
			<i>For >250 To 500, Deduct</i>	-0.78	
			<i>For >500 To 1,000, Deduct</i>	-1.23	
			<i>For >1,000, Deduct</i>	-1.68	
			<i>For 316 Stainless Steel, Add</i>	14.08	
			<i>For Aluminum, Add</i>	0.79	
			<i>For Galvanized Steel, Add</i>	2.73	
			<i>For 304 Stainless Steel, Add</i>	12.54	
05 12 23 00-0556	LF		C3 x 5 - 3" Wide Channel	13.60	6.17
			<i>For >100 To 250, Deduct</i>	-0.62	
			<i>For >250 To 500, Deduct</i>	-0.96	
			<i>For >500 To 1,000, Deduct</i>	-1.50	
			<i>For >1,000, Deduct</i>	-2.05	
			<i>For 316 Stainless Steel, Add</i>	17.18	
			<i>For Aluminum, Add</i>	0.97	
			<i>For Galvanized Steel, Add</i>	3.33	
			<i>For 304 Stainless Steel, Add</i>	15.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0557 LF C3 x 6 - 3" Wide Channel	16.31	7.41
For >100 To 250, Deduct	-0.74	
For >250 To 500, Deduct	-1.15	
For >500 To 1,000, Deduct	-1.80	
For >1,000, Deduct	-2.46	
For 316 Stainless Steel, Add	20.61	
For Aluminum, Add	1.16	
For Galvanized Steel, Add	3.99	
For 304 Stainless Steel, Add	18.35	
05 12 23 00-0558 LF C4 x 5.4 - 4" Wide Channel	13.89	6.07
For >100 To 250, Deduct	-0.61	
For >250 To 500, Deduct	-0.95	
For >500 To 1,000, Deduct	-1.50	
For >1,000, Deduct	-2.05	
For 316 Stainless Steel, Add	18.56	
For Aluminum, Add	1.04	
For Galvanized Steel, Add	3.60	
For 304 Stainless Steel, Add	16.53	
05 12 23 00-0559 LF C4 x 7.25 - 4" Wide Channel	18.65	8.15
For >100 To 250, Deduct	-0.82	
For >250 To 500, Deduct	-1.28	
For >500 To 1,000, Deduct	-2.02	
For >1,000, Deduct	-2.76	
For 316 Stainless Steel, Add	24.90	
For Aluminum, Add	1.40	
For Galvanized Steel, Add	4.82	
For 304 Stainless Steel, Add	22.17	
05 12 23 00-0560 LF C5 x 6.7 - 5" Wide Channel	16.64	7.07
For >100 To 250, Deduct	-0.71	
For >250 To 500, Deduct	-1.12	
For >500 To 1,000, Deduct	-1.78	
For >1,000, Deduct	-2.43	
For 316 Stainless Steel, Add	23.01	
For Aluminum, Add	1.29	
For Galvanized Steel, Add	4.46	
For 304 Stainless Steel, Add	20.49	
05 12 23 00-0561 LF C5 x 9 - 5" Wide Channel	22.34	9.52
For >100 To 250, Deduct	-0.95	
For >250 To 500, Deduct	-1.51	
For >500 To 1,000, Deduct	-2.39	
For >1,000, Deduct	-3.26	
For 316 Stainless Steel, Add	30.91	
For Aluminum, Add	1.74	
For Galvanized Steel, Add	5.99	
For 304 Stainless Steel, Add	27.53	
05 12 23 00-0562 LF C6 x 8.2 - 6" Wide Channel	20.13	8.50
For >100 To 250, Deduct	-0.85	
For >250 To 500, Deduct	-1.35	
For >500 To 1,000, Deduct	-2.14	
For >1,000, Deduct	-2.93	
For 316 Stainless Steel, Add	28.16	
For Aluminum, Add	1.58	
For Galvanized Steel, Add	5.46	
For 304 Stainless Steel, Add	25.08	
05 12 23 00-0563 LF C6 x 10.5 - 6" Wide Channel	25.78	10.89
For >100 To 250, Deduct	-1.09	
For >250 To 500, Deduct	-1.73	
For >500 To 1,000, Deduct	-2.74	
For >1,000, Deduct	-3.75	
For 316 Stainless Steel, Add	36.06	
For Aluminum, Add	2.03	
For Galvanized Steel, Add	6.99	
For 304 Stainless Steel, Add	32.12	
05 12 23 00-0564 LF C6 x 13 - 6" Wide Channel	31.92	13.47
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-2.15	
For >500 To 1,000, Deduct	-3.39	
For >1,000, Deduct	-4.64	
For 316 Stainless Steel, Add	44.64	
For Aluminum, Add	2.51	
For Galvanized Steel, Add	8.65	
For 304 Stainless Steel, Add	39.76	
05 12 23 00-0565 LF C7 x 9.8 - 7" Wide Channel	24.01	10.12
For >100 To 250, Deduct	-1.01	
For >250 To 500, Deduct	-1.61	
For >500 To 1,000, Deduct	-2.55	
For >1,000, Deduct	-3.49	
For 316 Stainless Steel, Add	33.66	
For Aluminum, Add	1.89	
For Galvanized Steel, Add	6.52	
For 304 Stainless Steel, Add	29.98	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0566	LF		C7 x 12.25 - 7" Wide Channel.....	30.01	12.65
			<i>For >100 To 250, Deduct</i>	-1.26	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500 To 1,000, Deduct</i>	-3.19	
			<i>For >1,000, Deduct</i>	-4.36	
			<i>For 316 Stainless Steel, Add</i>	42.08	
			<i>For Aluminum, Add</i>	2.37	
			<i>For Galvanized Steel, Add</i>	8.15	
			<i>For 304 Stainless Steel, Add</i>	37.48	
05 12 23 00-0567	LF		C7 x 14.75 - 7" Wide Channel.....	36.14	15.22
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-2.43	
			<i>For >500 To 1,000, Deduct</i>	-3.84	
			<i>For >1,000, Deduct</i>	-5.25	
			<i>For 316 Stainless Steel, Add</i>	50.66	
			<i>For Aluminum, Add</i>	2.85	
			<i>For Galvanized Steel, Add</i>	9.81	
			<i>For 304 Stainless Steel, Add</i>	45.12	
05 12 23 00-0568	LF		C8 x 11.5 - 8" Wide Channel.....	27.18	11.13
			<i>For >100 To 250, Deduct</i>	-1.11	
			<i>For >250 To 500, Deduct</i>	-1.79	
			<i>For >500 To 1,000, Deduct</i>	-2.84	
			<i>For >1,000, Deduct</i>	-3.89	
			<i>For 316 Stainless Steel, Add</i>	39.49	
			<i>For Aluminum, Add</i>	2.22	
			<i>For Galvanized Steel, Add</i>	7.65	
			<i>For 304 Stainless Steel, Add</i>	35.17	
05 12 23 00-0569	LF		C8 x 13.75 - 8" Wide Channel.....	32.51	13.31
			<i>For >100 To 250, Deduct</i>	-1.33	
			<i>For >250 To 500, Deduct</i>	-2.14	
			<i>For >500 To 1,000, Deduct</i>	-3.40	
			<i>For >1,000, Deduct</i>	-4.66	
			<i>For 316 Stainless Steel, Add</i>	47.23	
			<i>For Aluminum, Add</i>	2.66	
			<i>For Galvanized Steel, Add</i>	9.15	
			<i>For 304 Stainless Steel, Add</i>	42.07	
05 12 23 00-0570	LF		C8 x 18.75 - 8" Wide Channel.....	44.31	18.15
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.92	
			<i>For >500 To 1,000, Deduct</i>	-4.63	
			<i>For >1,000, Deduct</i>	-6.35	
			<i>For 316 Stainless Steel, Add</i>	64.38	
			<i>For Aluminum, Add</i>	3.62	
			<i>For Galvanized Steel, Add</i>	12.47	
			<i>For 304 Stainless Steel, Add</i>	57.34	
05 12 23 00-0571	LF		C9 x 13.4 - 9" Wide Channel.....	31.68	12.97
			<i>For >100 To 250, Deduct</i>	-1.30	
			<i>For >250 To 500, Deduct</i>	-2.09	
			<i>For >500 To 1,000, Deduct</i>	-3.31	
			<i>For >1,000, Deduct</i>	-4.54	
			<i>For 316 Stainless Steel, Add</i>	46.02	
			<i>For Aluminum, Add</i>	2.59	
			<i>For Galvanized Steel, Add</i>	8.92	
			<i>For 304 Stainless Steel, Add</i>	40.98	
05 12 23 00-0572	LF		C9 x 15 - 9" Wide Channel.....	35.46	14.52
			<i>For >100 To 250, Deduct</i>	-1.45	
			<i>For >250 To 500, Deduct</i>	-2.34	
			<i>For >500 To 1,000, Deduct</i>	-3.71	
			<i>For >1,000, Deduct</i>	-5.08	
			<i>For 316 Stainless Steel, Add</i>	51.52	
			<i>For Aluminum, Add</i>	2.90	
			<i>For Galvanized Steel, Add</i>	9.98	
			<i>For 304 Stainless Steel, Add</i>	45.89	
05 12 23 00-0573	LF		C9 x 20 - 9" Wide Channel.....	47.28	19.36
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-3.12	
			<i>For >500 To 1,000, Deduct</i>	-4.95	
			<i>For >1,000, Deduct</i>	-6.77	
			<i>For 316 Stainless Steel, Add</i>	68.70	
			<i>For Aluminum, Add</i>	3.86	
			<i>For Galvanized Steel, Add</i>	13.31	
			<i>For 304 Stainless Steel, Add</i>	61.19	
05 12 23 00-0574	LF		C10 x 15.3 - 10" Wide Channel.....	36.16	14.80
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-2.38	
			<i>For >500 To 1,000, Deduct</i>	-3.78	
			<i>For >1,000, Deduct</i>	-5.18	
			<i>For 316 Stainless Steel, Add</i>	52.54	
			<i>For Aluminum, Add</i>	2.96	
			<i>For Galvanized Steel, Add</i>	10.18	
			<i>For 304 Stainless Steel, Add</i>	46.80	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0575	LF		C10 x 20 - 10" Wide Channel	47.28	19.36
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-3.12	
			<i>For >500 To 1,000, Deduct</i>	-4.95	
			<i>For >1,000, Deduct</i>	-6.77	
			<i>For 316 Stainless Steel, Add</i>	68.70	
			<i>For Aluminum, Add</i>	3.86	
			<i>For Galvanized Steel, Add</i>	13.31	
			<i>For 304 Stainless Steel, Add</i>	61.19	
05 12 23 00-0576	LF		C10 x 25 - 10" Wide Channel	59.09	24.19
			<i>For >100 To 250, Deduct</i>	-2.42	
			<i>For >250 To 500, Deduct</i>	-3.90	
			<i>For >500 To 1,000, Deduct</i>	-6.18	
			<i>For >1,000, Deduct</i>	-8.46	
			<i>For 316 Stainless Steel, Add</i>	85.86	
			<i>For Aluminum, Add</i>	4.83	
			<i>For Galvanized Steel, Add</i>	16.63	
			<i>For 304 Stainless Steel, Add</i>	76.47	
05 12 23 00-0577	LF		C10 x 30 - 10" Wide Channel	70.91	29.03
			<i>For >100 To 250, Deduct</i>	-2.90	
			<i>For >250 To 500, Deduct</i>	-4.68	
			<i>For >500 To 1,000, Deduct</i>	-7.42	
			<i>For >1,000, Deduct</i>	-10.16	
			<i>For 316 Stainless Steel, Add</i>	103.04	
			<i>For Aluminum, Add</i>	5.80	
			<i>For Galvanized Steel, Add</i>	19.96	
			<i>For 304 Stainless Steel, Add</i>	91.77	
05 12 23 00-0578	LF		C12 x 20.7 - 12" Wide Channel	48.94	20.04
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-3.23	
			<i>For >500 To 1,000, Deduct</i>	-5.12	
			<i>For >1,000, Deduct</i>	-7.01	
			<i>For 316 Stainless Steel, Add</i>	71.10	
			<i>For Aluminum, Add</i>	4.00	
			<i>For Galvanized Steel, Add</i>	13.78	
			<i>For 304 Stainless Steel, Add</i>	63.33	
05 12 23 00-0579	LF		C12 x 25 - 12" Wide Channel	59.09	24.19
			<i>For >100 To 250, Deduct</i>	-2.42	
			<i>For >250 To 500, Deduct</i>	-3.90	
			<i>For >500 To 1,000, Deduct</i>	-6.18	
			<i>For >1,000, Deduct</i>	-8.46	
			<i>For 316 Stainless Steel, Add</i>	85.86	
			<i>For Aluminum, Add</i>	4.83	
			<i>For Galvanized Steel, Add</i>	16.63	
			<i>For 304 Stainless Steel, Add</i>	76.47	
05 12 23 00-0580	LF		C12 x 30 - 12" Wide Channel	70.91	29.03
			<i>For >100 To 250, Deduct</i>	-2.90	
			<i>For >250 To 500, Deduct</i>	-4.68	
			<i>For >500 To 1,000, Deduct</i>	-7.42	
			<i>For >1,000, Deduct</i>	-10.16	
			<i>For 316 Stainless Steel, Add</i>	103.04	
			<i>For Aluminum, Add</i>	5.80	
			<i>For Galvanized Steel, Add</i>	19.96	
			<i>For 304 Stainless Steel, Add</i>	91.77	
05 12 23 00-0581	LF		C15 x 33.9 - 15" Wide Channel	80.14	32.81
			<i>For >100 To 250, Deduct</i>	-3.28	
			<i>For >250 To 500, Deduct</i>	-5.28	
			<i>For >500 To 1,000, Deduct</i>	-8.38	
			<i>For >1,000, Deduct</i>	-11.48	
			<i>For 316 Stainless Steel, Add</i>	116.45	
			<i>For Aluminum, Add</i>	6.55	
			<i>For Galvanized Steel, Add</i>	22.56	
			<i>For 304 Stainless Steel, Add</i>	103.71	
05 12 23 00-0582	LF		C15 x 40 - 15" Wide Channel	94.55	38.71
			<i>For >100 To 250, Deduct</i>	-3.87	
			<i>For >250 To 500, Deduct</i>	-6.24	
			<i>For >500 To 1,000, Deduct</i>	-9.89	
			<i>For >1,000, Deduct</i>	-13.54	
			<i>For 316 Stainless Steel, Add</i>	137.38	
			<i>For Aluminum, Add</i>	7.73	
			<i>For Galvanized Steel, Add</i>	26.62	
			<i>For 304 Stainless Steel, Add</i>	122.35	
05 12 23 00-0583	LF		C15 x 50 - 15" Wide Channel	118.20	48.39
			<i>For >100 To 250, Deduct</i>	-4.84	
			<i>For >250 To 500, Deduct</i>	-7.79	
			<i>For >500 To 1,000, Deduct</i>	-12.36	
			<i>For >1,000, Deduct</i>	-16.93	
			<i>For 316 Stainless Steel, Add</i>	171.74	
			<i>For Aluminum, Add</i>	9.66	
			<i>For Galvanized Steel, Add</i>	33.28	
			<i>For 304 Stainless Steel, Add</i>	152.96	

05 12 23 00-0584 Miscellaneous Channels - MC (05 12 23 00-0438)

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0585	LF		MC6 x 12 - 6" Wide Channel.....	29.46	12.44
			<i>For >100 To 250, Deduct</i>	-1.24	
			<i>For >250 To 500, Deduct</i>	-1.98	
			<i>For >500 To 1,000, Deduct</i>	-3.13	
			<i>For >1,000, Deduct</i>	-4.28	
			<i>For 316 Stainless Steel, Add</i>	41.22	
			<i>For Aluminum, Add</i>	2.32	
			<i>For Galvanized Steel, Add</i>	7.99	
			<i>For 304 Stainless Steel, Add</i>	36.71	
05 12 23 00-0586	LF		MC6 x 15.1 - 6" Wide Channel.....	37.08	15.65
			<i>For >100 To 250, Deduct</i>	-1.57	
			<i>For >250 To 500, Deduct</i>	-2.49	
			<i>For >500 To 1,000, Deduct</i>	-3.94	
			<i>For >1,000, Deduct</i>	-5.39	
			<i>For 316 Stainless Steel, Add</i>	51.87	
			<i>For Aluminum, Add</i>	2.92	
			<i>For Galvanized Steel, Add</i>	10.05	
			<i>For 304 Stainless Steel, Add</i>	46.20	
05 12 23 00-0587	LF		MC6 x 15.3 - 6" Wide Channel.....	37.56	15.86
			<i>For >100 To 250, Deduct</i>	-1.59	
			<i>For >250 To 500, Deduct</i>	-2.52	
			<i>For >500 To 1,000, Deduct</i>	-3.99	
			<i>For >1,000, Deduct</i>	-5.46	
			<i>For 316 Stainless Steel, Add</i>	52.54	
			<i>For Aluminum, Add</i>	2.96	
			<i>For Galvanized Steel, Add</i>	10.18	
			<i>For 304 Stainless Steel, Add</i>	46.80	
05 12 23 00-0588	LF		MC6 x 16.3 - 6" Wide Channel.....	40.02	16.89
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500 To 1,000, Deduct</i>	-4.25	
			<i>For >1,000, Deduct</i>	-5.82	
			<i>For 316 Stainless Steel, Add</i>	55.97	
			<i>For Aluminum, Add</i>	3.15	
			<i>For Galvanized Steel, Add</i>	10.84	
			<i>For 304 Stainless Steel, Add</i>	49.85	
05 12 23 00-0589	LF		MC6 x 18 - 6" Wide Channel.....	44.19	18.66
			<i>For >100 To 250, Deduct</i>	-1.87	
			<i>For >250 To 500, Deduct</i>	-2.97	
			<i>For >500 To 1,000, Deduct</i>	-4.70	
			<i>For >1,000, Deduct</i>	-6.42	
			<i>For 316 Stainless Steel, Add</i>	61.82	
			<i>For Aluminum, Add</i>	3.48	
			<i>For Galvanized Steel, Add</i>	11.98	
			<i>For 304 Stainless Steel, Add</i>	55.06	
05 12 23 00-0590	LF		MC7 x 17.6 - 7" Wide Channel.....	43.12	18.17
			<i>For >100 To 250, Deduct</i>	-1.82	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500 To 1,000, Deduct</i>	-4.58	
			<i>For >1,000, Deduct</i>	-6.26	
			<i>For 316 Stainless Steel, Add</i>	60.45	
			<i>For Aluminum, Add</i>	3.40	
			<i>For Galvanized Steel, Add</i>	11.71	
			<i>For 304 Stainless Steel, Add</i>	53.84	
05 12 23 00-0591	LF		MC7 x 19.1 - 7" Wide Channel.....	46.80	19.72
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-3.14	
			<i>For >500 To 1,000, Deduct</i>	-4.97	
			<i>For >1,000, Deduct</i>	-6.80	
			<i>For 316 Stainless Steel, Add</i>	65.60	
			<i>For Aluminum, Add</i>	3.69	
			<i>For Galvanized Steel, Add</i>	12.71	
			<i>For 304 Stainless Steel, Add</i>	58.43	
05 12 23 00-0592	LF		MC7 x 22.7 - 7" Wide Channel.....	55.61	23.43
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-3.73	
			<i>For >500 To 1,000, Deduct</i>	-5.91	
			<i>For >1,000, Deduct</i>	-8.08	
			<i>For 316 Stainless Steel, Add</i>	77.95	
			<i>For Aluminum, Add</i>	4.38	
			<i>For Galvanized Steel, Add</i>	15.10	
			<i>For 304 Stainless Steel, Add</i>	69.43	
05 12 23 00-0593	LF		MC8 x 8.5 - 8" Wide Channel.....	20.09	8.23
			<i>For >100 To 250, Deduct</i>	-0.82	
			<i>For >250 To 500, Deduct</i>	-1.33	
			<i>For >500 To 1,000, Deduct</i>	-2.10	
			<i>For >1,000, Deduct</i>	-2.88	
			<i>For 316 Stainless Steel, Add</i>	29.18	
			<i>For Aluminum, Add</i>	1.64	
			<i>For Galvanized Steel, Add</i>	5.65	
			<i>For 304 Stainless Steel, Add</i>	25.99	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0594	LF		MC8 x 18.7 - 8" Wide Channel	44.20	18.09
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.91	
			<i>For >500 To 1,000, Deduct</i>	-4.62	
			<i>For >1,000, Deduct</i>	-6.33	
			<i>For 316 Stainless Steel, Add</i>	64.22	
			<i>For Aluminum, Add</i>	3.61	
			<i>For Galvanized Steel, Add</i>	12.44	
			<i>For 304 Stainless Steel, Add</i>	57.20	
05 12 23 00-0595	LF		MC8 x 20 - 8" Wide Channel	47.28	19.36
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-3.12	
			<i>For >500 To 1,000, Deduct</i>	-4.95	
			<i>For >1,000, Deduct</i>	-6.77	
			<i>For 316 Stainless Steel, Add</i>	68.70	
			<i>For Aluminum, Add</i>	3.86	
			<i>For Galvanized Steel, Add</i>	13.31	
			<i>For 304 Stainless Steel, Add</i>	61.19	
05 12 23 00-0596	LF		MC8 x 21.4 - 8" Wide Channel	50.59	20.72
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-3.34	
			<i>For >500 To 1,000, Deduct</i>	-5.29	
			<i>For >1,000, Deduct</i>	-7.25	
			<i>For 316 Stainless Steel, Add</i>	73.50	
			<i>For Aluminum, Add</i>	4.13	
			<i>For Galvanized Steel, Add</i>	14.24	
			<i>For 304 Stainless Steel, Add</i>	65.46	
05 12 23 00-0597	LF		MC8 x 22.8 - 8" Wide Channel	53.89	22.08
			<i>For >100 To 250, Deduct</i>	-2.21	
			<i>For >250 To 500, Deduct</i>	-3.55	
			<i>For >500 To 1,000, Deduct</i>	-5.64	
			<i>For >1,000, Deduct</i>	-7.72	
			<i>For 316 Stainless Steel, Add</i>	78.30	
			<i>For Aluminum, Add</i>	4.40	
			<i>For Galvanized Steel, Add</i>	15.17	
			<i>For 304 Stainless Steel, Add</i>	69.74	
05 12 23 00-0598	LF		MC9 x 23.9 - 9" Wide Channel	56.49	23.13
			<i>For >100 To 250, Deduct</i>	-2.31	
			<i>For >250 To 500, Deduct</i>	-3.73	
			<i>For >500 To 1,000, Deduct</i>	-5.91	
			<i>For >1,000, Deduct</i>	-8.09	
			<i>For 316 Stainless Steel, Add</i>	82.08	
			<i>For Aluminum, Add</i>	4.62	
			<i>For Galvanized Steel, Add</i>	15.90	
			<i>For 304 Stainless Steel, Add</i>	73.10	
05 12 23 00-0599	LF		MC9 x 25.4 - 9" Wide Channel	60.03	24.58
			<i>For >100 To 250, Deduct</i>	-2.46	
			<i>For >250 To 500, Deduct</i>	-3.96	
			<i>For >500 To 1,000, Deduct</i>	-6.28	
			<i>For >1,000, Deduct</i>	-8.60	
			<i>For 316 Stainless Steel, Add</i>	87.23	
			<i>For Aluminum, Add</i>	4.91	
			<i>For Galvanized Steel, Add</i>	16.90	
			<i>For 304 Stainless Steel, Add</i>	77.69	
05 12 23 00-0600	LF		MC10 x 6.5 - 10" Wide Channel.....	15.37	6.29
			<i>For >100 To 250, Deduct</i>	-0.63	
			<i>For >250 To 500, Deduct</i>	-1.01	
			<i>For >500 To 1,000, Deduct</i>	-1.61	
			<i>For >1,000, Deduct</i>	-2.20	
			<i>For 316 Stainless Steel, Add</i>	22.34	
			<i>For Aluminum, Add</i>	1.26	
			<i>For Galvanized Steel, Add</i>	4.33	
			<i>For 304 Stainless Steel, Add</i>	19.89	
05 12 23 00-0601	LF		MC10 x 8.4 - 10" Wide Channel.....	19.86	8.13
			<i>For >100 To 250, Deduct</i>	-0.81	
			<i>For >250 To 500, Deduct</i>	-1.31	
			<i>For >500 To 1,000, Deduct</i>	-2.08	
			<i>For >1,000, Deduct</i>	-2.84	
			<i>For 316 Stainless Steel, Add</i>	28.86	
			<i>For Aluminum, Add</i>	1.62	
			<i>For Galvanized Steel, Add</i>	5.59	
			<i>For 304 Stainless Steel, Add</i>	25.71	
05 12 23 00-0602	LF		MC10 x 21.9 - 10" Wide Channel.....	51.76	21.20
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-3.41	
			<i>For >500 To 1,000, Deduct</i>	-5.41	
			<i>For >1,000, Deduct</i>	-7.41	
			<i>For 316 Stainless Steel, Add</i>	75.23	
			<i>For Aluminum, Add</i>	4.23	
			<i>For Galvanized Steel, Add</i>	14.58	
			<i>For 304 Stainless Steel, Add</i>	67.00	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0603	LF		MC10 x 24.9 - 10" Wide Channel.....	58.87	24.11
			For >100 To 250, Deduct	-2.41	
			For >250 To 500, Deduct	-3.88	
			For >500 To 1,000, Deduct	-6.16	
			For >1,000, Deduct	-8.43	
			For 316 Stainless Steel, Add	85.54	
			For Aluminum, Add	4.81	
			For Galvanized Steel, Add	16.57	
			For 304 Stainless Steel, Add	76.18	
05 12 23 00-0604	LF		MC10 x 25.3 - 10" Wide Channel.....	59.80	24.49
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.94	
			For >500 To 1,000, Deduct	-6.26	
			For >1,000, Deduct	-8.57	
			For 316 Stainless Steel, Add	86.88	
			For Aluminum, Add	4.89	
			For Galvanized Steel, Add	16.83	
			For 304 Stainless Steel, Add	77.38	
05 12 23 00-0605	LF		MC10 x 28.3 - 10" Wide Channel.....	66.90	27.39
			For >100 To 250, Deduct	-2.74	
			For >250 To 500, Deduct	-4.41	
			For >500 To 1,000, Deduct	-7.00	
			For >1,000, Deduct	-9.58	
			For 316 Stainless Steel, Add	97.18	
			For Aluminum, Add	5.47	
			For Galvanized Steel, Add	18.83	
			For 304 Stainless Steel, Add	86.55	
05 12 23 00-0606	LF		MC10 x 28.5 - 10" Wide Channel.....	67.37	27.58
			For >100 To 250, Deduct	-2.76	
			For >250 To 500, Deduct	-4.44	
			For >500 To 1,000, Deduct	-7.05	
			For >1,000, Deduct	-9.65	
			For 316 Stainless Steel, Add	97.89	
			For Aluminum, Add	5.51	
			For Galvanized Steel, Add	18.97	
			For 304 Stainless Steel, Add	87.18	
05 12 23 00-0607	LF		MC10 x 33.6 - 10" Wide Channel.....	79.42	32.52
			For >100 To 250, Deduct	-3.25	
			For >250 To 500, Deduct	-5.24	
			For >500 To 1,000, Deduct	-8.31	
			For >1,000, Deduct	-11.38	
			For 316 Stainless Steel, Add	115.39	
			For Aluminum, Add	6.49	
			For Galvanized Steel, Add	22.36	
			For 304 Stainless Steel, Add	102.77	
05 12 23 00-0608	LF		MC10 x 41.1 - 10" Wide Channel.....	97.15	39.79
			For >100 To 250, Deduct	-3.98	
			For >250 To 500, Deduct	-6.41	
			For >500 To 1,000, Deduct	-10.16	
			For >1,000, Deduct	-13.92	
			For 316 Stainless Steel, Add	141.15	
			For Aluminum, Add	7.94	
			For Galvanized Steel, Add	27.35	
			For 304 Stainless Steel, Add	125.71	
05 12 23 00-0609	LF		MC12 x 30.9 - 12" Wide Channel.....	73.05	29.90
			For >100 To 250, Deduct	-2.99	
			For >250 To 500, Deduct	-4.82	
			For >500 To 1,000, Deduct	-7.64	
			For >1,000, Deduct	-10.46	
			For 316 Stainless Steel, Add	106.14	
			For Aluminum, Add	5.97	
			For Galvanized Steel, Add	20.57	
			For 304 Stainless Steel, Add	94.53	
05 12 23 00-0610	LF		MC12 x 32.9 - 12" Wide Channel.....	77.77	31.84
			For >100 To 250, Deduct	-3.18	
			For >250 To 500, Deduct	-5.13	
			For >500 To 1,000, Deduct	-8.13	
			For >1,000, Deduct	-11.14	
			For 316 Stainless Steel, Add	112.99	
			For Aluminum, Add	6.36	
			For Galvanized Steel, Add	21.89	
			For 304 Stainless Steel, Add	100.63	
05 12 23 00-0611	LF		MC12 x 35 - 12" Wide Channel.....	82.74	33.87
			For >100 To 250, Deduct	-3.39	
			For >250 To 500, Deduct	-5.46	
			For >500 To 1,000, Deduct	-8.65	
			For >1,000, Deduct	-11.85	
			For 316 Stainless Steel, Add	120.22	
			For Aluminum, Add	6.76	
			For Galvanized Steel, Add	23.29	
			For 304 Stainless Steel, Add	107.07	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0612 LF MC12 x 37 - 12" Wide Channel	87.46	35.81
For >100 To 250, Deduct	-3.58	
For >250 To 500, Deduct	-5.77	
For >500 To 1,000, Deduct	-9.15	
For >1,000, Deduct	-12.53	
For 316 Stainless Steel, Add	127.07	
For Aluminum, Add	7.15	
For Galvanized Steel, Add	24.62	
For 304 Stainless Steel, Add	113.17	
05 12 23 00-0613 LF MC12 x 40 - 12" Wide Channel	94.55	38.71
For >100 To 250, Deduct	-3.87	
For >250 To 500, Deduct	-6.24	
For >500 To 1,000, Deduct	-9.89	
For >1,000, Deduct	-13.54	
For 316 Stainless Steel, Add	137.38	
For Aluminum, Add	7.73	
For Galvanized Steel, Add	26.62	
For 304 Stainless Steel, Add	122.35	
05 12 23 00-0614 LF MC12 x 45 - 12" Wide Channel	106.38	43.56
For >100 To 250, Deduct	-4.36	
For >250 To 500, Deduct	-7.02	
For >500 To 1,000, Deduct	-11.13	
For >1,000, Deduct	-15.24	
For 316 Stainless Steel, Add	154.56	
For Aluminum, Add	8.69	
For Galvanized Steel, Add	29.95	
For 304 Stainless Steel, Add	137.66	
05 12 23 00-0615 LF MC12 x 50 - 12" Wide Channel	118.20	48.40
For >100 To 250, Deduct	-4.84	
For >250 To 500, Deduct	-7.79	
For >500 To 1,000, Deduct	-12.36	
For >1,000, Deduct	-16.93	
For 316 Stainless Steel, Add	171.74	
For Aluminum, Add	9.66	
For Galvanized Steel, Add	33.28	
For 304 Stainless Steel, Add	152.96	
05 12 23 00-0616 LF MC13 x 31.8 - 13" Wide Channel	75.17	30.78
For >100 To 250, Deduct	-3.08	
For >250 To 500, Deduct	-4.96	
For >500 To 1,000, Deduct	-7.86	
For >1,000, Deduct	-10.77	
For 316 Stainless Steel, Add	109.22	
For Aluminum, Add	6.14	
For Galvanized Steel, Add	21.16	
For 304 Stainless Steel, Add	97.27	
05 12 23 00-0617 LF MC13 x 35 - 13" Wide Channel	82.74	33.87
For >100 To 250, Deduct	-3.39	
For >250 To 500, Deduct	-5.46	
For >500 To 1,000, Deduct	-8.65	
For >1,000, Deduct	-11.85	
For 316 Stainless Steel, Add	120.22	
For Aluminum, Add	6.76	
For Galvanized Steel, Add	23.29	
For 304 Stainless Steel, Add	107.07	
05 12 23 00-0618 LF MC13 x 40 - 13" Wide Channel	94.55	38.71
For >100 To 250, Deduct	-3.87	
For >250 To 500, Deduct	-6.24	
For >500 To 1,000, Deduct	-9.89	
For >1,000, Deduct	-13.54	
For 316 Stainless Steel, Add	137.38	
For Aluminum, Add	7.73	
For Galvanized Steel, Add	26.62	
For 304 Stainless Steel, Add	122.35	
05 12 23 00-0619 LF MC13 x 50 - 13" Wide Channel	118.20	48.40
For >100 To 250, Deduct	-4.84	
For >250 To 500, Deduct	-7.79	
For >500 To 1,000, Deduct	-12.36	
For >1,000, Deduct	-16.93	
For 316 Stainless Steel, Add	171.74	
For Aluminum, Add	9.66	
For Galvanized Steel, Add	33.28	
For 304 Stainless Steel, Add	152.96	
05 12 23 00-0620 LF MC18 x 42.7 - 18" Wide Channel	100.94	41.33
For >100 To 250, Deduct	-4.13	
For >250 To 500, Deduct	-6.66	
For >500 To 1,000, Deduct	-10.56	
For >1,000, Deduct	-14.46	
For 316 Stainless Steel, Add	146.66	
For Aluminum, Add	8.25	
For Galvanized Steel, Add	28.41	
For 304 Stainless Steel, Add	130.62	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0621	LF		MC18 x 45.8 - 18" Wide Channel.....	108.27	44.33
			<i>For >100 To 250, Deduct</i>	-4.43	
			<i>For >250 To 500, Deduct</i>	-7.14	
			<i>For >500 To 1,000, Deduct</i>	-11.32	
			<i>For >1,000, Deduct</i>	-15.51	
			<i>For 316 Stainless Steel, Add</i>	157.31	
			<i>For Aluminum, Add</i>	8.85	
			<i>For Galvanized Steel, Add</i>	30.48	
			<i>For 304 Stainless Steel, Add</i>	140.11	
05 12 23 00-0622	LF		MC18 x 51.9 - 18" Wide Channel.....	122.68	50.23
			<i>For >100 To 250, Deduct</i>	-5.02	
			<i>For >250 To 500, Deduct</i>	-8.09	
			<i>For >500 To 1,000, Deduct</i>	-12.83	
			<i>For >1,000, Deduct</i>	-17.57	
			<i>For 316 Stainless Steel, Add</i>	178.24	
			<i>For Aluminum, Add</i>	10.03	
			<i>For Galvanized Steel, Add</i>	34.53	
			<i>For 304 Stainless Steel, Add</i>	158.75	
05 12 23 00-0623	LF		MC18 x 58 - 18" Wide Channel.....	137.10	56.14
			<i>For >100 To 250, Deduct</i>	-5.61	
			<i>For >250 To 500, Deduct</i>	-9.04	
			<i>For >500 To 1,000, Deduct</i>	-14.34	
			<i>For >1,000, Deduct</i>	-19.64	
			<i>For 316 Stainless Steel, Add</i>	199.20	
			<i>For Aluminum, Add</i>	11.21	
			<i>For Galvanized Steel, Add</i>	38.60	
			<i>For 304 Stainless Steel, Add</i>	177.41	
05 12 23 00-0624			Structural Bar Tees (05 12 23 00-0438)		
05 12 23 00-0625	LF		3/4" x 3/4" x 1/8" Structural Bar Tee.....	4.30	2.58
			<i>For >100 To 250, Deduct</i>	-0.26	
			<i>For >250 To 500, Deduct</i>	-0.36	
			<i>For >500 To 1,000, Deduct</i>	-0.56	
			<i>For >1,000, Deduct</i>	-0.75	
			<i>For 316 Stainless Steel, Add</i>	2.78	
			<i>For Aluminum, Add</i>	0.16	
			<i>For Galvanized Steel, Add</i>	0.54	
			<i>For 304 Stainless Steel, Add</i>	2.48	
05 12 23 00-0626	LF		1" x 1" x 1/8" Structural Bar Tee	5.23	3.04
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.43	
			<i>For >500 To 1,000, Deduct</i>	-0.67	
			<i>For >1,000, Deduct</i>	-0.90	
			<i>For 316 Stainless Steel, Add</i>	3.81	
			<i>For Aluminum, Add</i>	0.21	
			<i>For Galvanized Steel, Add</i>	0.74	
			<i>For 304 Stainless Steel, Add</i>	3.39	
05 12 23 00-0627	LF		1-1/2" x 1-1/2" x 1/4" Structural Bar Tee	8.08	3.50
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.55	
			<i>For >500 To 1,000, Deduct</i>	-0.87	
			<i>For >1,000, Deduct</i>	-1.19	
			<i>For 316 Stainless Steel, Add</i>	10.88	
			<i>For Aluminum, Add</i>	0.61	
			<i>For Galvanized Steel, Add</i>	2.11	
			<i>For 304 Stainless Steel, Add</i>	9.69	
05 12 23 00-0628	LF		2" x 2" x 1/4" Structural Bar Tee	11.19	4.59
			<i>For >100 To 250, Deduct</i>	-0.46	
			<i>For >250 To 500, Deduct</i>	-0.74	
			<i>For >500 To 1,000, Deduct</i>	-1.17	
			<i>For >1,000, Deduct</i>	-1.60	
			<i>For 316 Stainless Steel, Add</i>	16.22	
			<i>For Aluminum, Add</i>	0.91	
			<i>For Galvanized Steel, Add</i>	3.14	
			<i>For 304 Stainless Steel, Add</i>	14.45	
05 12 23 00-0629	LF		2-1/2" x 2-1/2" x 3/8" Structural Bar Tee	16.48	5.53
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-0.97	
			<i>For >500 To 1,000, Deduct</i>	-1.56	
			<i>For >1,000, Deduct</i>	-2.16	
			<i>For 316 Stainless Steel, Add</i>	29.12	
			<i>For Aluminum, Add</i>	1.64	
			<i>For Galvanized Steel, Add</i>	5.64	
			<i>For 304 Stainless Steel, Add</i>	25.94	
05 12 23 00-0630	LF		3" x 3" x 3/8" Structural Bar Tee	20.37	7.08
			<i>For >100 To 250, Deduct</i>	-0.71	
			<i>For >250 To 500, Deduct</i>	-1.22	
			<i>For >500 To 1,000, Deduct</i>	-1.96	
			<i>For >1,000, Deduct</i>	-2.71	
			<i>For 316 Stainless Steel, Add</i>	34.94	
			<i>For Aluminum, Add</i>	1.97	
			<i>For Galvanized Steel, Add</i>	6.77	
			<i>For 304 Stainless Steel, Add</i>	31.12	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0631 Structural Zees <small>(05 12 23 00-0438)</small>		
05 12 23 00-0632 LF 1-1/4" x 1-3/4" x 1-3/4" x 3/16" Structural Zee	9.75	3.50
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.59	
For >500 To 1,000, Deduct	-0.96	
For >1,000, Deduct	-1.32	
For 316 Stainless Steel, Add	16.22	
For Aluminum, Add	0.91	
For Galvanized Steel, Add	3.14	
For 304 Stainless Steel, Add	14.45	
05 12 23 00-0633 LF 2-11/16" x 3" x 2-11/16" x 1/4" Structural Zee	17.71	4.19
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.86	
For >500 To 1,000, Deduct	-1.44	
For >1,000, Deduct	-2.02	
For 316 Stainless Steel, Add	38.85	
For Aluminum, Add	2.19	
For Galvanized Steel, Add	7.53	
For 304 Stainless Steel, Add	34.60	
05 12 23 00-0634 LF 3-1/16" x 4" x 3-1/16" x 1/4" Structural Zee	21.16	4.72
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-1.00	
For >500 To 1,000, Deduct	-1.69	
For >1,000, Deduct	-2.37	
For 316 Stainless Steel, Add	47.55	
For Aluminum, Add	2.67	
For Galvanized Steel, Add	9.21	
For 304 Stainless Steel, Add	42.35	
05 12 23 00-0635 LF 3-1/4" x 5" x 3-1/4" x 5/16" Structural Zee	28.21	5.39
For >100 To 250, Deduct	-0.54	
For >250 To 500, Deduct	-1.24	
For >500 To 1,000, Deduct	-2.13	
For >1,000, Deduct	-3.01	
For 316 Stainless Steel, Add	67.26	
For Aluminum, Add	3.78	
For Galvanized Steel, Add	13.03	
For 304 Stainless Steel, Add	59.91	
05 12 23 00-0636 LF 3-1/2" x 6" x 3-1/2" x 3/8" Structural Zee	36.28	5.87
For >100 To 250, Deduct	-0.59	
For >250 To 500, Deduct	-1.49	
For >500 To 1,000, Deduct	-2.60	
For >1,000, Deduct	-3.70	
For 316 Stainless Steel, Add	91.04	
For Aluminum, Add	5.12	
For Galvanized Steel, Add	17.64	
For 304 Stainless Steel, Add	81.08	
05 12 23 00-0637 Junior I-Beams <small>(05 12 23 00-0438)</small>		
05 12 23 00-0638 LF 3" Junior I-Beam, 2.9 LB/LF	13.43	5.06
For >100 To 250, Deduct	-0.51	
For >250 To 500, Deduct	-0.84	
For >500 To 1,000, Deduct	-1.35	
For >1,000, Deduct	-1.85	
For 316 Stainless Steel, Add	21.41	
For Aluminum, Add	1.20	
For Galvanized Steel, Add	4.15	
For 304 Stainless Steel, Add	19.07	
05 12 23 00-0639 LF 4" Junior I-Beam, 3.2 LB/LF	14.76	5.53
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-0.92	
For >500 To 1,000, Deduct	-1.48	
For >1,000, Deduct	-2.03	
For 316 Stainless Steel, Add	23.62	
For Aluminum, Add	1.33	
For Galvanized Steel, Add	4.58	
For 304 Stainless Steel, Add	21.03	
05 12 23 00-0640 LF 5" Junior I-Beam, 3.8 LB/LF	16.85	6.07
For >100 To 250, Deduct	-0.61	
For >250 To 500, Deduct	-1.03	
For >500 To 1,000, Deduct	-1.65	
For >1,000, Deduct	-2.28	
For 316 Stainless Steel, Add	28.03	
For Aluminum, Add	1.58	
For Galvanized Steel, Add	5.43	
For 304 Stainless Steel, Add	24.97	
05 12 23 00-0641 LF 6" Junior I-Beam, 4.4 LB/LF	18.96	6.61
For >100 To 250, Deduct	-0.66	
For >250 To 500, Deduct	-1.13	
For >500 To 1,000, Deduct	-1.83	
For >1,000, Deduct	-2.52	
For 316 Stainless Steel, Add	32.48	
For Aluminum, Add	1.83	
For Galvanized Steel, Add	6.29	
For 304 Stainless Steel, Add	28.93	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0642	LF		7" Junior I-Beam, 5.5 LB/LF	22.12	7.08
			<i>For >100 To 250, Deduct</i>	-0.71	
			<i>For >250 To 500, Deduct</i>	-1.26	
			<i>For >500 To 1,000, Deduct</i>	-2.05	
			<i>For >1,000, Deduct</i>	-2.84	
			<i>For 316 Stainless Steel, Add</i>	40.58	
			<i>For Aluminum, Add</i>	2.28	
			<i>For Galvanized Steel, Add</i>	7.86	
			<i>For 304 Stainless Steel, Add</i>	36.14	
05 12 23 00-0643	LF		8" Junior I-Beam, 6.5 LB/LF	25.06	7.56
			<i>For >100 To 250, Deduct</i>	-0.76	
			<i>For >250 To 500, Deduct</i>	-1.38	
			<i>For >500 To 1,000, Deduct</i>	-2.26	
			<i>For >1,000, Deduct</i>	-3.14	
			<i>For 316 Stainless Steel, Add</i>	47.97	
			<i>For Aluminum, Add</i>	2.70	
			<i>For Galvanized Steel, Add</i>	9.29	
			<i>For 304 Stainless Steel, Add</i>	42.72	
05 12 23 00-0644	LF		10" Junior I-Beam, 9 LB/LF	32.27	8.63
			<i>For >100 To 250, Deduct</i>	-0.86	
			<i>For >250 To 500, Deduct</i>	-1.67	
			<i>For >500 To 1,000, Deduct</i>	-2.76	
			<i>For >1,000, Deduct</i>	-3.86	
			<i>For 316 Stainless Steel, Add</i>	66.43	
			<i>For Aluminum, Add</i>	3.74	
			<i>For Galvanized Steel, Add</i>	12.87	
			<i>For 304 Stainless Steel, Add</i>	59.17	
05 12 23 00-0645	LF		12" Junior I-Beam, 11.8 LB/LF	40.89	10.25
			<i>For >100 To 250, Deduct</i>	-1.03	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500 To 1,000, Deduct</i>	-3.41	
			<i>For >1,000, Deduct</i>	-4.78	
			<i>For 316 Stainless Steel, Add</i>	87.10	
			<i>For Aluminum, Add</i>	4.90	
			<i>For Galvanized Steel, Add</i>	16.88	
			<i>For 304 Stainless Steel, Add</i>	77.58	
05 12 23 00-0646			Round Stock <small>(05 12 23 00-0438)</small>		
05 12 23 00-0647	LF		1/4" Carbon Steel Rounds, ASTM A108	1.66	
			<i>For 316 Stainless Steel, Add</i>	2.43	
			<i>For Aluminum, Add</i>	0.14	
			<i>For Galvanized Steel, Add</i>	0.47	
			<i>For 304 Stainless Steel, Add</i>	2.17	
05 12 23 00-0648	LF		3/8" Carbon Steel Rounds, ASTM A108	2.54	
			<i>For 316 Stainless Steel, Add</i>	4.83	
			<i>For Aluminum, Add</i>	0.27	
			<i>For Galvanized Steel, Add</i>	0.94	
			<i>For 304 Stainless Steel, Add</i>	4.30	
05 12 23 00-0649	LF		1/2" Carbon Steel Rounds, ASTM A108	3.42	
			<i>For 316 Stainless Steel, Add</i>	7.33	
			<i>For Aluminum, Add</i>	0.41	
			<i>For Galvanized Steel, Add</i>	1.42	
			<i>For 304 Stainless Steel, Add</i>	6.53	
05 12 23 00-0650	LF		5/8" Carbon Steel Rounds, ASTM A108	5.07	
			<i>For 316 Stainless Steel, Add</i>	12.22	
			<i>For Aluminum, Add</i>	0.69	
			<i>For Galvanized Steel, Add</i>	2.37	
			<i>For 304 Stainless Steel, Add</i>	10.89	
05 12 23 00-0651	LF		3/4" Carbon Steel Rounds, ASTM A108	6.04	
			<i>For 316 Stainless Steel, Add</i>	14.53	
			<i>For Aluminum, Add</i>	0.82	
			<i>For Galvanized Steel, Add</i>	2.81	
			<i>For 304 Stainless Steel, Add</i>	12.94	
05 12 23 00-0652	LF		7/8" Carbon Steel Rounds, ASTM A108	7.03	
			<i>For 316 Stainless Steel, Add</i>	16.96	
			<i>For Aluminum, Add</i>	0.95	
			<i>For Galvanized Steel, Add</i>	3.29	
			<i>For 304 Stainless Steel, Add</i>	15.11	
05 12 23 00-0653	LF		1" Carbon Steel Rounds, ASTM A108	10.12	
			<i>For 316 Stainless Steel, Add</i>	25.86	
			<i>For Aluminum, Add</i>	1.45	
			<i>For Galvanized Steel, Add</i>	5.01	
			<i>For 304 Stainless Steel, Add</i>	23.03	
05 12 23 00-0654	LF		1-1/8" Carbon Steel Rounds, ASTM A108	12.32	
			<i>For 316 Stainless Steel, Add</i>	31.42	
			<i>For Aluminum, Add</i>	1.77	
			<i>For Galvanized Steel, Add</i>	6.09	
			<i>For 304 Stainless Steel, Add</i>	27.99	
05 12 23 00-0655	LF		1-1/4" Carbon Steel Rounds, ASTM A108	14.77	
			<i>For 316 Stainless Steel, Add</i>	36.99	
			<i>For Aluminum, Add</i>	2.08	
			<i>For Galvanized Steel, Add</i>	7.17	
			<i>For 304 Stainless Steel, Add</i>	32.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0656	LF		1-3/8" Carbon Steel Rounds, ASTM A108.....	17.84	
			<i>For 316 Stainless Steel, Add</i>	45.12	
			<i>For Aluminum, Add</i>	2.54	
			<i>For Galvanized Steel, Add</i>	8.74	
			<i>For 304 Stainless Steel, Add</i>	40.19	
05 12 23 00-0657	LF		1-1/2" Carbon Steel Rounds, ASTM A108.....	19.97	
			<i>For 316 Stainless Steel, Add</i>	49.50	
			<i>For Aluminum, Add</i>	2.78	
			<i>For Galvanized Steel, Add</i>	9.59	
			<i>For 304 Stainless Steel, Add</i>	44.09	
05 12 23 00-0658	LF		1-5/8" Carbon Steel Rounds, ASTM A108.....	23.15	
			<i>For 316 Stainless Steel, Add</i>	56.10	
			<i>For Aluminum, Add</i>	3.16	
			<i>For Galvanized Steel, Add</i>	10.87	
			<i>For 304 Stainless Steel, Add</i>	49.96	
05 12 23 00-0659	LF		1-3/4" Carbon Steel Rounds, ASTM A108.....	27.90	
			<i>For 316 Stainless Steel, Add</i>	65.28	
			<i>For Aluminum, Add</i>	3.67	
			<i>For Galvanized Steel, Add</i>	12.65	
			<i>For 304 Stainless Steel, Add</i>	58.14	
05 12 23 00-0660	LF		1-7/8" Carbon Steel Rounds, ASTM A108.....	33.79	
			<i>For 316 Stainless Steel, Add</i>	76.48	
			<i>For Aluminum, Add</i>	4.30	
			<i>For Galvanized Steel, Add</i>	14.82	
			<i>For 304 Stainless Steel, Add</i>	68.12	
05 12 23 00-0661	LF		2" Carbon Steel Rounds, ASTM A108.....	38.80	
			<i>For 316 Stainless Steel, Add</i>	85.09	
			<i>For Aluminum, Add</i>	4.79	
			<i>For Galvanized Steel, Add</i>	16.49	
			<i>For 304 Stainless Steel, Add</i>	75.78	
05 12 23 00-0662	LF		2-1/8" Carbon Steel Rounds, ASTM A108.....	45.53	
			<i>For 316 Stainless Steel, Add</i>	97.15	
			<i>For Aluminum, Add</i>	5.46	
			<i>For Galvanized Steel, Add</i>	18.82	
			<i>For 304 Stainless Steel, Add</i>	86.53	
05 12 23 00-0663	LF		2-1/4" Carbon Steel Rounds, ASTM A108.....	51.59	
			<i>For 316 Stainless Steel, Add</i>	109.25	
			<i>For Aluminum, Add</i>	6.15	
			<i>For Galvanized Steel, Add</i>	21.17	
			<i>For 304 Stainless Steel, Add</i>	97.30	
05 12 23 00-0664	LF		2-3/8" Carbon Steel Rounds, ASTM A108.....	59.11	
			<i>For 316 Stainless Steel, Add</i>	124.96	
			<i>For Aluminum, Add</i>	7.03	
			<i>For Galvanized Steel, Add</i>	24.21	
			<i>For 304 Stainless Steel, Add</i>	111.29	
05 12 23 00-0665	LF		2-1/2" Carbon Steel Rounds, ASTM A108.....	65.63	
			<i>For 316 Stainless Steel, Add</i>	134.66	
			<i>For Aluminum, Add</i>	7.57	
			<i>For Galvanized Steel, Add</i>	26.09	
			<i>For 304 Stainless Steel, Add</i>	119.93	
05 12 23 00-0666	LF		2-5/8" Carbon Steel Rounds, ASTM A108.....	79.63	
			<i>For 316 Stainless Steel, Add</i>	171.07	
			<i>For Aluminum, Add</i>	9.62	
			<i>For Galvanized Steel, Add</i>	33.15	
			<i>For 304 Stainless Steel, Add</i>	152.36	
05 12 23 00-0667	LF		2-3/4" Carbon Steel Rounds, ASTM A108.....	90.62	
			<i>For 316 Stainless Steel, Add</i>	195.07	
			<i>For Aluminum, Add</i>	10.97	
			<i>For Galvanized Steel, Add</i>	37.80	
			<i>For 304 Stainless Steel, Add</i>	173.74	
05 12 23 00-0668	LF		2-7/8 Carbon Steel Rounds, ASTM A108.....	101.09	
			<i>For 316 Stainless Steel, Add</i>	217.38	
			<i>For Aluminum, Add</i>	12.23	
			<i>For Galvanized Steel, Add</i>	42.12	
			<i>For 304 Stainless Steel, Add</i>	193.60	
05 12 23 00-0669	LF		3" Carbon Steel Rounds, ASTM A108.....	106.62	
			<i>For 316 Stainless Steel, Add</i>	223.90	
			<i>For Aluminum, Add</i>	12.59	
			<i>For Galvanized Steel, Add</i>	43.38	
			<i>For 304 Stainless Steel, Add</i>	199.41	
05 12 23 00-0670	LF		3-1/8" Carbon Steel Rounds, ASTM A108.....	111.66	
			<i>For 316 Stainless Steel, Add</i>	228.86	
			<i>For Aluminum, Add</i>	12.87	
			<i>For Galvanized Steel, Add</i>	44.34	
			<i>For 304 Stainless Steel, Add</i>	203.83	
05 12 23 00-0671	LF		3-1/4" Carbon Steel Rounds, ASTM A108.....	118.06	
			<i>For 316 Stainless Steel, Add</i>	238.21	
			<i>For Aluminum, Add</i>	13.40	
			<i>For Galvanized Steel, Add</i>	46.15	
			<i>For 304 Stainless Steel, Add</i>	212.15	
05 12 23 00-0672	LF		3-1/2" Carbon Steel Rounds, ASTM A108.....	142.44	
			<i>For 316 Stainless Steel, Add</i>	302.24	
			<i>For Aluminum, Add</i>	17.00	
			<i>For Galvanized Steel, Add</i>	58.56	
			<i>For 304 Stainless Steel, Add</i>	269.18	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0673	LF		3-5/8" Carbon Steel Rounds, ASTM A108.....	158.01	
			<i>For 316 Stainless Steel, Add</i>	338.11	
			<i>For Aluminum, Add</i>	19.02	
			<i>For Galvanized Steel, Add</i>	65.51	
			<i>For 304 Stainless Steel, Add</i>	301.13	
05 12 23 00-0674	LF		3-3/4" Carbon Steel Rounds, ASTM A108.....	169.74	
			<i>For 316 Stainless Steel, Add</i>	361.70	
			<i>For Aluminum, Add</i>	20.35	
			<i>For Galvanized Steel, Add</i>	70.08	
			<i>For 304 Stainless Steel, Add</i>	322.14	
05 12 23 00-0675	LF		4" Carbon Steel Rounds, ASTM A108.....	189.75	
			<i>For 316 Stainless Steel, Add</i>	411.78	
			<i>For Aluminum, Add</i>	23.16	
			<i>For Galvanized Steel, Add</i>	79.78	
			<i>For 304 Stainless Steel, Add</i>	366.74	
05 12 23 00-0676			Square Stock (05 12 23 00-0438)		
05 12 23 00-0677	LF		3/8" Square Bar Stock.....	1.54	
			<i>For 316 Stainless Steel, Add</i>	1.63	
			<i>For Aluminum, Add</i>	0.09	
			<i>For Galvanized Steel, Add</i>	0.32	
			<i>For 304 Stainless Steel, Add</i>	1.45	
05 12 23 00-0678	LF		1/2" Square Bar Stock.....	2.04	
			<i>For 316 Stainless Steel, Add</i>	2.91	
			<i>For Aluminum, Add</i>	0.16	
			<i>For Galvanized Steel, Add</i>	0.56	
			<i>For 304 Stainless Steel, Add</i>	2.59	
05 12 23 00-0679	LF		5/8" Square Bar Stock.....	2.67	
			<i>For 316 Stainless Steel, Add</i>	4.54	
			<i>For Aluminum, Add</i>	0.26	
			<i>For Galvanized Steel, Add</i>	0.88	
			<i>For 304 Stainless Steel, Add</i>	4.05	
05 12 23 00-0680	LF		3/4" Square Bar Stock.....	3.54	
			<i>For 316 Stainless Steel, Add</i>	6.53	
			<i>For Aluminum, Add</i>	0.37	
			<i>For Galvanized Steel, Add</i>	1.26	
			<i>For 304 Stainless Steel, Add</i>	5.81	
05 12 23 00-0681	LF		7/8" Square Bar Stock.....	4.58	
			<i>For 316 Stainless Steel, Add</i>	9.12	
			<i>For Aluminum, Add</i>	0.51	
			<i>For Galvanized Steel, Add</i>	1.77	
			<i>For 304 Stainless Steel, Add</i>	8.12	
05 12 23 00-0682	LF		1" Square Bar Stock.....	5.68	
			<i>For 316 Stainless Steel, Add</i>	11.65	
			<i>For Aluminum, Add</i>	0.66	
			<i>For Galvanized Steel, Add</i>	2.26	
			<i>For 304 Stainless Steel, Add</i>	10.37	
05 12 23 00-0683	LF		1-1/4" Square Bar Stock.....	8.89	
			<i>For 316 Stainless Steel, Add</i>	18.18	
			<i>For Aluminum, Add</i>	1.02	
			<i>For Galvanized Steel, Add</i>	3.52	
			<i>For 304 Stainless Steel, Add</i>	16.19	
05 12 23 00-0684	LF		1-1/2" Square Bar Stock.....	12.69	
			<i>For 316 Stainless Steel, Add</i>	26.21	
			<i>For Aluminum, Add</i>	1.47	
			<i>For Galvanized Steel, Add</i>	5.08	
			<i>For 304 Stainless Steel, Add</i>	23.34	
05 12 23 00-0685	LF		1-3/4" Square Bar Stock.....	18.88	
			<i>For 316 Stainless Steel, Add</i>	36.42	
			<i>For Aluminum, Add</i>	2.05	
			<i>For Galvanized Steel, Add</i>	7.06	
			<i>For 304 Stainless Steel, Add</i>	32.43	
05 12 23 00-0686	LF		2" Square Bar Stock.....	27.15	
			<i>For 316 Stainless Steel, Add</i>	46.59	
			<i>For Aluminum, Add</i>	2.62	
			<i>For Galvanized Steel, Add</i>	9.03	
			<i>For 304 Stainless Steel, Add</i>	41.50	
05 12 23 00-0687			Steel Tubing (05 12 23 00-0438)		
			Note: General purpose low-carbon steel.		
05 12 23 00-0688			Square Steel Tubing (05 12 23 00-0687)		
05 12 23 00-0689			0.06" Wall Thickness (05 12 23 00-0688)		
05 12 23 00-0690	LF		1/2" x 1/2" x 0.06" Square Steel Tubing.....	1.98	0.48
			<i>For >100 To 250, Deduct</i>	-0.05	
			<i>For >250 To 500, Deduct</i>	-0.10	
			<i>For >500 To 1,000, Deduct</i>	-0.16	
			<i>For >1,000, Deduct</i>	-0.23	
			<i>For 316 Stainless Steel, Add</i>	4.29	
			<i>For Aluminum, Add</i>	0.24	
			<i>For Galvanized Steel, Add</i>	0.83	
			<i>For 304 Stainless Steel, Add</i>	3.82	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 12 23 00-0691	LF		3/4" x 3/4" x 0.06" Square Steel Tubing.....	3.06	0.76
				<i>For >100 To 250, Deduct</i>	-0.08	
				<i>For >250 To 500, Deduct</i>	-0.15	
				<i>For >500 To 1,000, Deduct</i>	-0.26	
				<i>For >1,000, Deduct</i>	-0.36	
				<i>For 316 Stainless Steel, Add</i>	6.53	
				<i>For Aluminum, Add</i>	0.37	
				<i>For Galvanized Steel, Add</i>	1.26	
				<i>For 304 Stainless Steel, Add</i>	5.81	
	05 12 23 00-0692	LF		1" x 1" x 0.06" Square Steel Tubing.....	4.11	1.38
				<i>For >100 To 250, Deduct</i>	-0.10	
				<i>For >250 To 500, Deduct</i>	-0.21	
				<i>For >500 To 1,000, Deduct</i>	-0.34	
				<i>For >1,000, Deduct</i>	-0.48	
				<i>For 316 Stainless Steel, Add</i>	8.74	
				<i>For Aluminum, Add</i>	0.49	
				<i>For Galvanized Steel, Add</i>	1.69	
				<i>For 304 Stainless Steel, Add</i>	7.78	
	05 12 23 00-0693	LF		1-1/4" x 1-1/4" x 0.06" Square Steel Tubing	5.42	1.31
				<i>For >100 To 250, Deduct</i>	-0.13	
				<i>For >250 To 500, Deduct</i>	-0.27	
				<i>For >500 To 1,000, Deduct</i>	-0.45	
				<i>For >1,000, Deduct</i>	-0.63	
				<i>For 316 Stainless Steel, Add</i>	11.74	
				<i>For Aluminum, Add</i>	0.66	
				<i>For Galvanized Steel, Add</i>	2.28	
				<i>For 304 Stainless Steel, Add</i>	10.46	
	05 12 23 00-0694	LF		1-1/2" x 1-1/2" x 0.06" Square Steel Tubing	6.42	1.59
				<i>For >100 To 250, Deduct</i>	-0.16	
				<i>For >250 To 500, Deduct</i>	-0.32	
				<i>For >500 To 1,000, Deduct</i>	-0.53	
				<i>For >1,000, Deduct</i>	-0.75	
				<i>For 316 Stainless Steel, Add</i>	13.79	
				<i>For Aluminum, Add</i>	0.78	
				<i>For Galvanized Steel, Add</i>	2.67	
				<i>For 304 Stainless Steel, Add</i>	12.28	
	05 12 23 00-0695			0.083" Wall Thickness <small>(05 12 23 00-0688)</small>		
	05 12 23 00-0696	LF		3/4" x 3/4" x 0.083" Square Steel Tubing.....	3.55	0.89
				<i>For >100 To 250, Deduct</i>	-0.09	
				<i>For >250 To 500, Deduct</i>	-0.18	
				<i>For >500 To 1,000, Deduct</i>	-0.30	
				<i>For >1,000, Deduct</i>	-0.42	
				<i>For 316 Stainless Steel, Add</i>	7.55	
				<i>For Aluminum, Add</i>	0.42	
				<i>For Galvanized Steel, Add</i>	1.46	
				<i>For 304 Stainless Steel, Add</i>	6.73	
	05 12 23 00-0697	LF		1" x 1" x 0.083" Square Steel Tubing.....	5.17	1.23
				<i>For >100 To 250, Deduct</i>	-0.12	
				<i>For >250 To 500, Deduct</i>	-0.25	
				<i>For >500 To 1,000, Deduct</i>	-0.42	
				<i>For >1,000, Deduct</i>	-0.59	
				<i>For 316 Stainless Steel, Add</i>	11.33	
				<i>For Aluminum, Add</i>	0.64	
				<i>For Galvanized Steel, Add</i>	2.19	
				<i>For 304 Stainless Steel, Add</i>	10.09	
	05 12 23 00-0698	LF		1-1/4" x 1-1/4" x 0.083" Square Steel Tubing	6.24	1.56
				<i>For >100 To 250, Deduct</i>	-0.16	
				<i>For >250 To 500, Deduct</i>	-0.31	
				<i>For >500 To 1,000, Deduct</i>	-0.52	
				<i>For >1,000, Deduct</i>	-0.73	
				<i>For 316 Stainless Steel, Add</i>	13.34	
				<i>For Aluminum, Add</i>	0.75	
				<i>For Galvanized Steel, Add</i>	2.59	
				<i>For 304 Stainless Steel, Add</i>	11.88	
	05 12 23 00-0699	LF		1-1/2" x 1-1/2" x 0.083" Square Steel Tubing	7.56	1.89
				<i>For >100 To 250, Deduct</i>	-0.19	
				<i>For >250 To 500, Deduct</i>	-0.38	
				<i>For >500 To 1,000, Deduct</i>	-0.63	
				<i>For >1,000, Deduct</i>	-0.88	
				<i>For 316 Stainless Steel, Add</i>	16.13	
				<i>For Aluminum, Add</i>	0.91	
				<i>For Galvanized Steel, Add</i>	3.12	
				<i>For 304 Stainless Steel, Add</i>	14.36	
	05 12 23 00-0700	LF		2" x 2" x 0.083" Square Steel Tubing.....	9.70	2.52
				<i>For >100 To 250, Deduct</i>	-0.25	
				<i>For >250 To 500, Deduct</i>	-0.49	
				<i>For >500 To 1,000, Deduct</i>	-0.82	
				<i>For >1,000, Deduct</i>	-1.15	
				<i>For 316 Stainless Steel, Add</i>	20.29	
				<i>For Aluminum, Add</i>	1.14	
				<i>For Galvanized Steel, Add</i>	3.93	
				<i>For 304 Stainless Steel, Add</i>	18.07	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0701			0.12" Wall Thickness (05 12 23 00-0688)		
05 12 23 00-0702	LF		1" x 1" x 0.12" Square Steel Tubing.....	5.71	1.46
			<i>For >100 To 250, Deduct</i>	-0.15	
			<i>For >250 To 500, Deduct</i>	-0.29	
			<i>For >500 To 1,000, Deduct</i>	-0.48	
			<i>For >1,000, Deduct</i>	-0.67	
			<i>For 316 Stainless Steel, Add</i>	12.06	
			<i>For Aluminum, Add</i>	0.68	
			<i>For Galvanized Steel, Add</i>	2.34	
			<i>For 304 Stainless Steel, Add</i>	10.74	
05 12 23 00-0703	LF		1-1/4" x 1-1/4" x 0.12" Square Steel Tubing.....	7.36	1.87
			<i>For >100 To 250, Deduct</i>	-0.19	
			<i>For >250 To 500, Deduct</i>	-0.37	
			<i>For >500 To 1,000, Deduct</i>	-0.62	
			<i>For >1,000, Deduct</i>	-0.86	
			<i>For 316 Stainless Steel, Add</i>	15.55	
			<i>For Aluminum, Add</i>	0.87	
			<i>For Galvanized Steel, Add</i>	3.01	
			<i>For 304 Stainless Steel, Add</i>	13.85	
05 12 23 00-0704	LF		1-1/2" x 1-1/2" x 0.12" Square Steel Tubing.....	9.02	2.28
			<i>For >100 To 250, Deduct</i>	-0.23	
			<i>For >250 To 500, Deduct</i>	-0.45	
			<i>For >500 To 1,000, Deduct</i>	-0.76	
			<i>For >1,000, Deduct</i>	-1.06	
			<i>For 316 Stainless Steel, Add</i>	19.14	
			<i>For Aluminum, Add</i>	1.08	
			<i>For Galvanized Steel, Add</i>	3.71	
			<i>For 304 Stainless Steel, Add</i>	17.04	
05 12 23 00-0705	LF		2" x 2" x 0.12" Square Steel Tubing.....	12.23	3.11
			<i>For >100 To 250, Deduct</i>	-0.31	
			<i>For >250 To 500, Deduct</i>	-0.62	
			<i>For >500 To 1,000, Deduct</i>	-1.03	
			<i>For >1,000, Deduct</i>	-1.44	
			<i>For 316 Stainless Steel, Add</i>	25.86	
			<i>For Aluminum, Add</i>	1.45	
			<i>For Galvanized Steel, Add</i>	5.01	
			<i>For 304 Stainless Steel, Add</i>	23.03	
05 12 23 00-0706			1/8" Wall Thickness (05 12 23 00-0688)		
05 12 23 00-0707	LF		2" x 2" x 1/8" Square Steel Tubing.....	11.04	3.23
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.60	
			<i>For >500 To 1,000, Deduct</i>	-0.98	
			<i>For >1,000, Deduct</i>	-1.37	
			<i>For 316 Stainless Steel, Add</i>	21.54	
			<i>For Aluminum, Add</i>	1.21	
			<i>For Galvanized Steel, Add</i>	4.17	
			<i>For 304 Stainless Steel, Add</i>	19.18	
05 12 23 00-0708	LF		2-1/2" x 2-1/2" x 1/8" Square Steel Tubing.....	14.54	4.09
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.77	
			<i>For >500 To 1,000, Deduct</i>	-1.27	
			<i>For >1,000, Deduct</i>	-1.77	
			<i>For 316 Stainless Steel, Add</i>	29.09	
			<i>For Aluminum, Add</i>	1.64	
			<i>For Galvanized Steel, Add</i>	5.64	
			<i>For 304 Stainless Steel, Add</i>	25.91	
05 12 23 00-0709	LF		3" x 3" x 1/8" Square Steel Tubing.....	17.06	4.95
			<i>For >100 To 250, Deduct</i>	-0.50	
			<i>For >250 To 500, Deduct</i>	-0.92	
			<i>For >500 To 1,000, Deduct</i>	-1.51	
			<i>For >1,000, Deduct</i>	-2.10	
			<i>For 316 Stainless Steel, Add</i>	33.47	
			<i>For Aluminum, Add</i>	1.88	
			<i>For Galvanized Steel, Add</i>	6.49	
			<i>For 304 Stainless Steel, Add</i>	29.81	
05 12 23 00-0710	LF		3-1/2" x 3-1/2" x 1/8" Square Steel Tubing.....	19.77	5.82
			<i>For >100 To 250, Deduct</i>	-0.58	
			<i>For >250 To 500, Deduct</i>	-1.08	
			<i>For >500 To 1,000, Deduct</i>	-1.76	
			<i>For >1,000, Deduct</i>	-2.45	
			<i>For 316 Stainless Steel, Add</i>	38.46	
			<i>For Aluminum, Add</i>	2.16	
			<i>For Galvanized Steel, Add</i>	7.45	
			<i>For 304 Stainless Steel, Add</i>	34.26	
05 12 23 00-0711	LF		4" x 4" x 1/8" Square Steel Tubing.....	21.81	6.67
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.21	
			<i>For >500 To 1,000, Deduct</i>	-1.98	
			<i>For >1,000, Deduct</i>	-2.75	
			<i>For 316 Stainless Steel, Add</i>	41.31	
			<i>For Aluminum, Add</i>	2.32	
			<i>For Galvanized Steel, Add</i>	8.00	
			<i>For 304 Stainless Steel, Add</i>	36.79	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0712 3/16" Wall Thickness (05 12 23 00-0688)		
05 12 23 00-0713 LF 2" x 2" x 3/16" Square Steel Tubing.....	12.52	3.64
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.68	
For >500 To 1,000, Deduct	-1.11	
For >1,000, Deduct	-1.55	
For 316 Stainless Steel, Add	24.51	
For Aluminum, Add	1.38	
For Galvanized Steel, Add	4.75	
For 304 Stainless Steel, Add	21.83	
05 12 23 00-0714 LF 2-1/2" x 2-1/2" x 3/16" Square Steel Tubing	16.20	4.71
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-0.88	
For >500 To 1,000, Deduct	-1.44	
For >1,000, Deduct	-2.00	
For 316 Stainless Steel, Add	31.71	
For Aluminum, Add	1.78	
For Galvanized Steel, Add	6.14	
For 304 Stainless Steel, Add	28.24	
05 12 23 00-0715 LF 3" x 3" x 3/16" Square Steel Tubing.....	19.91	5.80
For >100 To 250, Deduct	-0.58	
For >250 To 500, Deduct	-1.08	
For >500 To 1,000, Deduct	-1.77	
For >1,000, Deduct	-2.46	
For 316 Stainless Steel, Add	38.98	
For Aluminum, Add	2.19	
For Galvanized Steel, Add	7.55	
For 304 Stainless Steel, Add	34.71	
05 12 23 00-0716 LF 3-1/2" x 3-1/2" x 3/16" Square Steel Tubing	23.62	6.87
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.28	
For >500 To 1,000, Deduct	-2.10	
For >1,000, Deduct	-2.92	
For 316 Stainless Steel, Add	46.24	
For Aluminum, Add	2.60	
For Galvanized Steel, Add	8.96	
For 304 Stainless Steel, Add	41.18	
05 12 23 00-0717 LF 4" x 4" x 3/16" Square Steel Tubing.....	27.31	7.94
For >100 To 250, Deduct	-0.80	
For >250 To 500, Deduct	-1.48	
For >500 To 1,000, Deduct	-2.43	
For >1,000, Deduct	-3.37	
For 316 Stainless Steel, Add	53.47	
For Aluminum, Add	3.01	
For Galvanized Steel, Add	10.36	
For 304 Stainless Steel, Add	47.62	
05 12 23 00-0718 LF 4-1/2" x 4-1/2" x 3/16" Square Steel Tubing	31.01	9.03
For >100 To 250, Deduct	-0.90	
For >250 To 500, Deduct	-1.68	
For >500 To 1,000, Deduct	-2.75	
For >1,000, Deduct	-3.83	
For 316 Stainless Steel, Add	60.74	
For Aluminum, Add	3.42	
For Galvanized Steel, Add	11.77	
For 304 Stainless Steel, Add	54.09	
05 12 23 00-0719 LF 5" x 5" x 3/16" Square Steel Tubing.....	34.68	10.09
For >100 To 250, Deduct	-1.01	
For >250 To 500, Deduct	-1.88	
For >500 To 1,000, Deduct	-3.08	
For >1,000, Deduct	-4.28	
For 316 Stainless Steel, Add	67.94	
For Aluminum, Add	3.82	
For Galvanized Steel, Add	13.16	
For 304 Stainless Steel, Add	60.51	
05 12 23 00-0720 LF 6" x 6" x 3/16" Square Steel Tubing.....	42.10	12.26
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-2.28	
For >500 To 1,000, Deduct	-3.74	
For >1,000, Deduct	-5.20	
For 316 Stainless Steel, Add	82.46	
For Aluminum, Add	4.64	
For Galvanized Steel, Add	15.98	
For 304 Stainless Steel, Add	73.44	

05 12 23 00-0721 1/4" Wall Thickness (05 12 23 00-0688)

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0722	LF		2" x 2" x 1/4" Square Steel Tubing.....	13.34	3.65
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.70	
			<i>For >500 To 1,000, Deduct</i>	-1.15	
			<i>For >1,000, Deduct</i>	-1.61	
			<i>For 316 Stainless Steel, Add</i>	27.10	
			<i>For Aluminum, Add</i>	1.52	
			<i>For Galvanized Steel, Add</i>	5.25	
			<i>For 304 Stainless Steel, Add</i>	24.14	
05 12 23 00-0723	LF		2-1/2" x 2-1/2" x 1/4" Square Steel Tubing.....	17.53	4.80
			<i>For >100 To 250, Deduct</i>	-0.48	
			<i>For >250 To 500, Deduct</i>	-0.92	
			<i>For >500 To 1,000, Deduct</i>	-1.52	
			<i>For >1,000, Deduct</i>	-2.11	
			<i>For 316 Stainless Steel, Add</i>	35.62	
			<i>For Aluminum, Add</i>	2.00	
			<i>For Galvanized Steel, Add</i>	6.90	
			<i>For 304 Stainless Steel, Add</i>	31.72	
05 12 23 00-0724	LF		3" x 3" x 1/4" Square Steel Tubing.....	21.71	5.95
			<i>For >100 To 250, Deduct</i>	-0.59	
			<i>For >250 To 500, Deduct</i>	-1.14	
			<i>For >500 To 1,000, Deduct</i>	-1.88	
			<i>For >1,000, Deduct</i>	-2.62	
			<i>For 316 Stainless Steel, Add</i>	44.13	
			<i>For Aluminum, Add</i>	2.48	
			<i>For Galvanized Steel, Add</i>	8.55	
			<i>For 304 Stainless Steel, Add</i>	39.30	
05 12 23 00-0725	LF		3-1/2" x 3-1/2" x 1/4" Square Steel Tubing.....	25.90	7.09
			<i>For >100 To 250, Deduct</i>	-0.71	
			<i>For >250 To 500, Deduct</i>	-1.36	
			<i>For >500 To 1,000, Deduct</i>	-2.24	
			<i>For >1,000, Deduct</i>	-3.12	
			<i>For 316 Stainless Steel, Add</i>	52.64	
			<i>For Aluminum, Add</i>	2.96	
			<i>For Galvanized Steel, Add</i>	10.20	
			<i>For 304 Stainless Steel, Add</i>	46.88	
05 12 23 00-0726	LF		4" x 4" x 1/4" Square Steel Tubing.....	30.09	8.24
			<i>For >100 To 250, Deduct</i>	-0.82	
			<i>For >250 To 500, Deduct</i>	-1.58	
			<i>For >500 To 1,000, Deduct</i>	-2.60	
			<i>For >1,000, Deduct</i>	-3.63	
			<i>For 316 Stainless Steel, Add</i>	61.15	
			<i>For Aluminum, Add</i>	3.44	
			<i>For Galvanized Steel, Add</i>	11.85	
			<i>For 304 Stainless Steel, Add</i>	54.46	
05 12 23 00-0727	LF		4-1/2" x 4-1/2" x 1/4" Square Steel Tubing.....	34.28	9.39
			<i>For >100 To 250, Deduct</i>	-0.94	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500 To 1,000, Deduct</i>	-2.97	
			<i>For >1,000, Deduct</i>	-4.13	
			<i>For 316 Stainless Steel, Add</i>	69.66	
			<i>For Aluminum, Add</i>	3.92	
			<i>For Galvanized Steel, Add</i>	13.50	
			<i>For 304 Stainless Steel, Add</i>	62.04	
05 12 23 00-0728	LF		5" x 5" x 1/4" Square Steel Tubing.....	38.50	10.54
			<i>For >100 To 250, Deduct</i>	-1.05	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500 To 1,000, Deduct</i>	-3.33	
			<i>For >1,000, Deduct</i>	-4.64	
			<i>For 316 Stainless Steel, Add</i>	78.24	
			<i>For Aluminum, Add</i>	4.40	
			<i>For Galvanized Steel, Add</i>	15.16	
			<i>For 304 Stainless Steel, Add</i>	69.68	
05 12 23 00-0729	LF		6" x 6" x 1/4" Square Steel Tubing.....	46.88	12.83
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500 To 1,000, Deduct</i>	-4.06	
			<i>For >1,000, Deduct</i>	-5.65	
			<i>For 316 Stainless Steel, Add</i>	95.26	
			<i>For Aluminum, Add</i>	5.36	
			<i>For Galvanized Steel, Add</i>	18.46	
			<i>For 304 Stainless Steel, Add</i>	84.84	
05 12 23 00-0730			Rectangular Steel Tubing (05 12 23 00-0687)		
05 12 23 00-0731			3/16" Wall Thickness (05 12 23 00-0730)		
05 12 23 00-0732	LF		3" x 2" x 3/16" Square Steel Tubing.....	16.20	4.71
			<i>For >100 To 250, Deduct</i>	-0.47	
			<i>For >250 To 500, Deduct</i>	-0.88	
			<i>For >500 To 1,000, Deduct</i>	-1.44	
			<i>For >1,000, Deduct</i>	-2.00	
			<i>For 316 Stainless Steel, Add</i>	31.71	
			<i>For Aluminum, Add</i>	1.78	
			<i>For Galvanized Steel, Add</i>	6.14	
			<i>For 304 Stainless Steel, Add</i>	28.24	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0733 LF 4" x 2" x 3/16" Square Steel Tubing.....	19.91	5.80
For >100 To 250, Deduct	-0.58	
For >250 To 500, Deduct	-1.08	
For >500 To 1,000, Deduct	-1.77	
For >1,000, Deduct	-2.46	
For 316 Stainless Steel, Add	38.98	
For Aluminum, Add	2.19	
For Galvanized Steel, Add	7.55	
For 304 Stainless Steel, Add	34.71	
05 12 23 00-0734 LF 4" x 3" x 3/16" Square Steel Tubing.....	23.62	6.87
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.28	
For >500 To 1,000, Deduct	-2.10	
For >1,000, Deduct	-2.92	
For 316 Stainless Steel, Add	46.24	
For Aluminum, Add	2.60	
For Galvanized Steel, Add	8.96	
For 304 Stainless Steel, Add	41.18	
05 12 23 00-0735 LF 5" x 2" x 3/16" Square Steel Tubing.....	23.62	6.87
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.28	
For >500 To 1,000, Deduct	-2.10	
For >1,000, Deduct	-2.92	
For 316 Stainless Steel, Add	46.24	
For Aluminum, Add	2.60	
For Galvanized Steel, Add	8.96	
For 304 Stainless Steel, Add	41.18	
05 12 23 00-0736 LF 5" x 3" x 3/16" Square Steel Tubing.....	27.31	7.94
For >100 To 250, Deduct	-0.80	
For >250 To 500, Deduct	-1.48	
For >500 To 1,000, Deduct	-2.43	
For >1,000, Deduct	-3.37	
For 316 Stainless Steel, Add	53.47	
For Aluminum, Add	3.01	
For Galvanized Steel, Add	10.36	
For 304 Stainless Steel, Add	47.62	
05 12 23 00-0737 LF 5" x 4" x 3/16" Square Steel Tubing.....	31.01	9.03
For >100 To 250, Deduct	-0.90	
For >250 To 500, Deduct	-1.68	
For >500 To 1,000, Deduct	-2.75	
For >1,000, Deduct	-3.83	
For 316 Stainless Steel, Add	60.74	
For Aluminum, Add	3.42	
For Galvanized Steel, Add	11.77	
For 304 Stainless Steel, Add	54.09	
05 12 23 00-0738 LF 6" x 2" x 3/16" Square Steel Tubing.....	27.31	7.94
For >100 To 250, Deduct	-0.80	
For >250 To 500, Deduct	-1.48	
For >500 To 1,000, Deduct	-2.43	
For >1,000, Deduct	-3.37	
For 316 Stainless Steel, Add	53.47	
For Aluminum, Add	3.01	
For Galvanized Steel, Add	10.36	
For 304 Stainless Steel, Add	47.62	
05 12 23 00-0739 LF 6" x 3" x 3/16" Square Steel Tubing.....	31.01	9.03
For >100 To 250, Deduct	-0.90	
For >250 To 500, Deduct	-1.68	
For >500 To 1,000, Deduct	-2.75	
For >1,000, Deduct	-3.83	
For 316 Stainless Steel, Add	60.74	
For Aluminum, Add	3.42	
For Galvanized Steel, Add	11.77	
For 304 Stainless Steel, Add	54.09	
05 12 23 00-0740 LF 6" x 4" x 3/16" Square Steel Tubing.....	34.68	10.09
For >100 To 250, Deduct	-1.01	
For >250 To 500, Deduct	-1.88	
For >500 To 1,000, Deduct	-3.08	
For >1,000, Deduct	-4.28	
For 316 Stainless Steel, Add	67.94	
For Aluminum, Add	3.82	
For Galvanized Steel, Add	13.16	
For 304 Stainless Steel, Add	60.51	
05 12 23 00-0741 1/4" Wall Thickness (05 12 23 00-0730)		
05 12 23 00-0742 LF 3" x 2" x 1/4" Square Steel Tubing.....	17.53	4.80
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.92	
For >500 To 1,000, Deduct	-1.52	
For >1,000, Deduct	-2.11	
For 316 Stainless Steel, Add	35.62	
For Aluminum, Add	2.00	
For Galvanized Steel, Add	6.90	
For 304 Stainless Steel, Add	31.72	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0743	LF		4" x 2" x 1/4" Square Steel Tubing.....	21.71	5.95
			For >100 To 250, Deduct	-0.59	
			For >250 To 500, Deduct	-1.14	
			For >500 To 1,000, Deduct	-1.88	
			For >1,000, Deduct	-2.62	
			For 316 Stainless Steel, Add	44.13	
			For Aluminum, Add	2.48	
			For Galvanized Steel, Add	8.55	
			For 304 Stainless Steel, Add	39.30	
05 12 23 00-0744	LF		4" x 3" x 1/4" Square Steel Tubing.....	25.90	7.09
			For >100 To 250, Deduct	-0.71	
			For >250 To 500, Deduct	-1.36	
			For >500 To 1,000, Deduct	-2.24	
			For >1,000, Deduct	-3.12	
			For 316 Stainless Steel, Add	52.64	
			For Aluminum, Add	2.96	
			For Galvanized Steel, Add	10.20	
			For 304 Stainless Steel, Add	46.88	
05 12 23 00-0745	LF		5" x 2" x 1/4" Square Steel Tubing.....	25.90	7.09
			For >100 To 250, Deduct	-0.71	
			For >250 To 500, Deduct	-1.36	
			For >500 To 1,000, Deduct	-2.24	
			For >1,000, Deduct	-3.12	
			For 316 Stainless Steel, Add	52.64	
			For Aluminum, Add	2.96	
			For Galvanized Steel, Add	10.20	
			For 304 Stainless Steel, Add	46.88	
05 12 23 00-0746	LF		5" x 3" x 1/4" Square Steel Tubing.....	30.09	8.24
			For >100 To 250, Deduct	-0.82	
			For >250 To 500, Deduct	-1.58	
			For >500 To 1,000, Deduct	-2.60	
			For >1,000, Deduct	-3.63	
			For 316 Stainless Steel, Add	61.15	
			For Aluminum, Add	3.44	
			For Galvanized Steel, Add	11.85	
			For 304 Stainless Steel, Add	54.46	
05 12 23 00-0747	LF		5" x 4" x 1/4" Square Steel Tubing.....	34.28	9.39
			For >100 To 250, Deduct	-0.94	
			For >250 To 500, Deduct	-1.80	
			For >500 To 1,000, Deduct	-2.97	
			For >1,000, Deduct	-4.13	
			For 316 Stainless Steel, Add	69.66	
			For Aluminum, Add	3.92	
			For Galvanized Steel, Add	13.50	
			For 304 Stainless Steel, Add	62.04	
05 12 23 00-0748	LF		6" x 2" x 1/4" Square Steel Tubing.....	30.09	8.24
			For >100 To 250, Deduct	-0.82	
			For >250 To 500, Deduct	-1.58	
			For >500 To 1,000, Deduct	-2.60	
			For >1,000, Deduct	-3.63	
			For 316 Stainless Steel, Add	61.15	
			For Aluminum, Add	3.44	
			For Galvanized Steel, Add	11.85	
			For 304 Stainless Steel, Add	54.46	
05 12 23 00-0749	LF		6" x 3" x 1/4" Square Steel Tubing.....	34.28	9.39
			For >100 To 250, Deduct	-0.94	
			For >250 To 500, Deduct	-1.80	
			For >500 To 1,000, Deduct	-2.97	
			For >1,000, Deduct	-4.13	
			For 316 Stainless Steel, Add	69.66	
			For Aluminum, Add	3.92	
			For Galvanized Steel, Add	13.50	
			For 304 Stainless Steel, Add	62.04	
05 12 23 00-0750	LF		6" x 4" x 1/4" Square Steel Tubing.....	38.50	10.54
			For >100 To 250, Deduct	-1.05	
			For >250 To 500, Deduct	-2.02	
			For >500 To 1,000, Deduct	-3.33	
			For >1,000, Deduct	-4.64	
			For 316 Stainless Steel, Add	78.24	
			For Aluminum, Add	4.40	
			For Galvanized Steel, Add	15.16	
			For 304 Stainless Steel, Add	69.68	
05 12 23 00-0751			Round Steel Tubing (05 12 23 00-0687)		
05 12 23 00-0752			0.065" Wall Thickness (05 12 23 00-0751)		
05 12 23 00-0753	LF		1" Diameter x 0.065" Round Steel Tubing	3.55	0.88
			For >100 To 250, Deduct	-0.09	
			For >250 To 500, Deduct	-0.18	
			For >500 To 1,000, Deduct	-0.29	
			For >1,000, Deduct	-0.41	
			For 316 Stainless Steel, Add	7.62	
			For Aluminum, Add	0.43	
			For Galvanized Steel, Add	1.48	
			For 304 Stainless Steel, Add	6.78	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0754	LF		1-1/4" Diameter x 0.065" Round Steel Tubing	4.50	1.11
			<i>For >100 To 250, Deduct</i>	-0.11	
			<i>For >250 To 500, Deduct</i>	-0.22	
			<i>For >500 To 1,000, Deduct</i>	-0.37	
			<i>For >1,000, Deduct</i>	-0.52	
			<i>For 316 Stainless Steel, Add</i>	9.66	
			<i>For Aluminum, Add</i>	0.54	
			<i>For Galvanized Steel, Add</i>	1.87	
			<i>For 304 Stainless Steel, Add</i>	8.61	
05 12 23 00-0755	LF		1-1/2" Diameter x 0.065" Round Steel Tubing	5.44	1.35
			<i>For >100 To 250, Deduct</i>	-0.13	
			<i>For >250 To 500, Deduct</i>	-0.27	
			<i>For >500 To 1,000, Deduct</i>	-0.45	
			<i>For >1,000, Deduct</i>	-0.63	
			<i>For 316 Stainless Steel, Add</i>	11.68	
			<i>For Aluminum, Add</i>	0.66	
			<i>For Galvanized Steel, Add</i>	2.26	
			<i>For 304 Stainless Steel, Add</i>	10.40	
05 12 23 00-0756	LF		2" Diameter x 0.065" Round Steel Tubing	7.33	1.81
			<i>For >100 To 250, Deduct</i>	-0.18	
			<i>For >250 To 500, Deduct</i>	-0.36	
			<i>For >500 To 1,000, Deduct</i>	-0.61	
			<i>For >1,000, Deduct</i>	-0.85	
			<i>For 316 Stainless Steel, Add</i>	15.74	
			<i>For Aluminum, Add</i>	0.89	
			<i>For Galvanized Steel, Add</i>	3.05	
			<i>For 304 Stainless Steel, Add</i>	14.02	
05 12 23 00-0757	LF		2-1/2" Diameter x 0.065" Round Steel Tubing	9.24	2.28
			<i>For >100 To 250, Deduct</i>	-0.23	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500 To 1,000, Deduct</i>	-0.77	
			<i>For >1,000, Deduct</i>	-1.07	
			<i>For 316 Stainless Steel, Add</i>	19.84	
			<i>For Aluminum, Add</i>	1.12	
			<i>For Galvanized Steel, Add</i>	3.84	
			<i>For 304 Stainless Steel, Add</i>	17.67	
05 12 23 00-0758	LF		3" Diameter x 0.065" Round Steel Tubing	11.13	2.75
			<i>For >100 To 250, Deduct</i>	-0.27	
			<i>For >250 To 500, Deduct</i>	-0.55	
			<i>For >500 To 1,000, Deduct</i>	-0.92	
			<i>For >1,000, Deduct</i>	-1.29	
			<i>For 316 Stainless Steel, Add</i>	23.90	
			<i>For Aluminum, Add</i>	1.34	
			<i>For Galvanized Steel, Add</i>	4.63	
			<i>For 304 Stainless Steel, Add</i>	21.29	
05 12 23 00-0759	LF		3-1/2" Diameter x 0.065" Round Steel Tubing	13.03	3.22
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.65	
			<i>For >500 To 1,000, Deduct</i>	-1.08	
			<i>For >1,000, Deduct</i>	-1.51	
			<i>For 316 Stainless Steel, Add</i>	27.97	
			<i>For Aluminum, Add</i>	1.57	
			<i>For Galvanized Steel, Add</i>	5.42	
			<i>For 304 Stainless Steel, Add</i>	24.91	
05 12 23 00-0760	LF		4" Diameter x 0.065" Round Steel Tubing	14.93	3.68
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.74	
			<i>For >500 To 1,000, Deduct</i>	-1.24	
			<i>For >1,000, Deduct</i>	-1.73	
			<i>For 316 Stainless Steel, Add</i>	32.06	
			<i>For Aluminum, Add</i>	1.80	
			<i>For Galvanized Steel, Add</i>	6.21	
			<i>For 304 Stainless Steel, Add</i>	28.56	
05 12 23 00-0761			0.083" Wall Thickness <small>(05 12 23 00-0751)</small>		
05 12 23 00-0762	LF		1" Diameter x 0.083" Round Steel Tubing	3.85	0.96
			<i>For >100 To 250, Deduct</i>	-0.10	
			<i>For >250 To 500, Deduct</i>	-0.19	
			<i>For >500 To 1,000, Deduct</i>	-0.32	
			<i>For >1,000, Deduct</i>	-0.45	
			<i>For 316 Stainless Steel, Add</i>	8.22	
			<i>For Aluminum, Add</i>	0.46	
			<i>For Galvanized Steel, Add</i>	1.59	
			<i>For 304 Stainless Steel, Add</i>	7.32	
05 12 23 00-0763	LF		1-1/4" Diameter x 0.083" Round Steel Tubing	4.91	1.22
			<i>For >100 To 250, Deduct</i>	-0.12	
			<i>For >250 To 500, Deduct</i>	-0.25	
			<i>For >500 To 1,000, Deduct</i>	-0.41	
			<i>For >1,000, Deduct</i>	-0.57	
			<i>For 316 Stainless Steel, Add</i>	10.50	
			<i>For Aluminum, Add</i>	0.59	
			<i>For Galvanized Steel, Add</i>	2.03	
			<i>For 304 Stainless Steel, Add</i>	9.35	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0764	LF		1-1/2" Diameter x 0.083" Round Steel Tubing	5.95	1.48
			<i>For >100 To 250, Deduct</i>	-0.15	
			<i>For >250 To 500, Deduct</i>	-0.30	
			<i>For >500 To 1,000, Deduct</i>	-0.49	
			<i>For >1,000, Deduct</i>	-0.69	
			<i>For 316 Stainless Steel, Add</i>	12.74	
			<i>For Aluminum, Add</i>	0.72	
			<i>For Galvanized Steel, Add</i>	2.47	
			<i>For 304 Stainless Steel, Add</i>	11.34	
05 12 23 00-0765	LF		2" Diameter x 0.083" Round Steel Tubing	8.06	2.00
			<i>For >100 To 250, Deduct</i>	-0.20	
			<i>For >250 To 500, Deduct</i>	-0.40	
			<i>For >500 To 1,000, Deduct</i>	-0.67	
			<i>For >1,000, Deduct</i>	-0.94	
			<i>For 316 Stainless Steel, Add</i>	17.22	
			<i>For Aluminum, Add</i>	0.97	
			<i>For Galvanized Steel, Add</i>	3.34	
			<i>For 304 Stainless Steel, Add</i>	15.33	
05 12 23 00-0766	LF		2-1/2" Diameter x 0.083" Round Steel Tubing	10.16	2.53
			<i>For >100 To 250, Deduct</i>	-0.25	
			<i>For >250 To 500, Deduct</i>	-0.51	
			<i>For >500 To 1,000, Deduct</i>	-0.85	
			<i>For >1,000, Deduct</i>	-1.18	
			<i>For 316 Stainless Steel, Add</i>	21.73	
			<i>For Aluminum, Add</i>	1.22	
			<i>For Galvanized Steel, Add</i>	4.21	
			<i>For 304 Stainless Steel, Add</i>	19.35	
05 12 23 00-0767	LF		3" Diameter x 0.083" Round Steel Tubing	12.27	3.05
			<i>For >100 To 250, Deduct</i>	-0.31	
			<i>For >250 To 500, Deduct</i>	-0.61	
			<i>For >500 To 1,000, Deduct</i>	-1.02	
			<i>For >1,000, Deduct</i>	-1.43	
			<i>For 316 Stainless Steel, Add</i>	26.21	
			<i>For Aluminum, Add</i>	1.47	
			<i>For Galvanized Steel, Add</i>	5.08	
			<i>For 304 Stainless Steel, Add</i>	23.34	
05 12 23 00-0768	LF		3-1/2" Diameter x 0.083" Round Steel Tubing	14.36	3.57
			<i>For >100 To 250, Deduct</i>	-0.36	
			<i>For >250 To 500, Deduct</i>	-0.72	
			<i>For >500 To 1,000, Deduct</i>	-1.20	
			<i>For >1,000, Deduct</i>	-1.67	
			<i>For 316 Stainless Steel, Add</i>	30.69	
			<i>For Aluminum, Add</i>	1.73	
			<i>For Galvanized Steel, Add</i>	5.95	
			<i>For 304 Stainless Steel, Add</i>	27.33	
05 12 23 00-0769	LF		4" Diameter x 0.083" Round Steel Tubing	16.46	4.10
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.82	
			<i>For >500 To 1,000, Deduct</i>	-1.37	
			<i>For >1,000, Deduct</i>	-1.92	
			<i>For 316 Stainless Steel, Add</i>	35.20	
			<i>For Aluminum, Add</i>	1.98	
			<i>For Galvanized Steel, Add</i>	6.82	
			<i>For 304 Stainless Steel, Add</i>	31.35	
05 12 23 00-0770			0.125" Wall Thickness <small>(05 12 23 00-0751)</small>	8.66	2.54
05 12 23 00-0771	LF		2" Diameter x 0.125" Round Steel Tubing	8.66	2.54
			<i>For >100 To 250, Deduct</i>	-0.25	
			<i>For >250 To 500, Deduct</i>	-0.47	
			<i>For >500 To 1,000, Deduct</i>	-0.77	
			<i>For >1,000, Deduct</i>	-1.07	
			<i>For 316 Stainless Steel, Add</i>	16.90	
			<i>For Aluminum, Add</i>	0.95	
			<i>For Galvanized Steel, Add</i>	3.27	
			<i>For 304 Stainless Steel, Add</i>	15.05	
05 12 23 00-0772	LF		2-1/2" Diameter x 0.125" Round Steel Tubing	10.97	3.21
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.60	
			<i>For >500 To 1,000, Deduct</i>	-0.98	
			<i>For >1,000, Deduct</i>	-1.36	
			<i>For 316 Stainless Steel, Add</i>	21.41	
			<i>For Aluminum, Add</i>	1.20	
			<i>For Galvanized Steel, Add</i>	4.15	
			<i>For 304 Stainless Steel, Add</i>	19.07	
05 12 23 00-0773	LF		3" Diameter x 0.125" Round Steel Tubing	13.28	3.88
			<i>For >100 To 250, Deduct</i>	-0.39	
			<i>For >250 To 500, Deduct</i>	-0.72	
			<i>For >500 To 1,000, Deduct</i>	-1.18	
			<i>For >1,000, Deduct</i>	-1.64	
			<i>For 316 Stainless Steel, Add</i>	25.92	
			<i>For Aluminum, Add</i>	1.46	
			<i>For Galvanized Steel, Add</i>	5.02	
			<i>For 304 Stainless Steel, Add</i>	23.09	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 12 23 00-0774	LF		3-1/2" Diameter x 0.125" Round Steel Tubing	15.59	4.56
				<i>For >100 To 250, Deduct</i>	-0.46	
				<i>For >250 To 500, Deduct</i>	-0.85	
				<i>For >500 To 1,000, Deduct</i>	-1.39	
				<i>For >1,000, Deduct</i>	-1.93	
				<i>For 316 Stainless Steel, Add</i>	30.43	
				<i>For Aluminum, Add</i>	1.71	
				<i>For Galvanized Steel, Add</i>	5.90	
				<i>For 304 Stainless Steel, Add</i>	27.10	
	05 12 23 00-0775	LF		4" Diameter x 0.125" Round Steel Tubing	17.89	5.23
				<i>For >100 To 250, Deduct</i>	-0.52	
				<i>For >250 To 500, Deduct</i>	-0.97	
				<i>For >500 To 1,000, Deduct</i>	-1.59	
				<i>For >1,000, Deduct</i>	-2.21	
				<i>For 316 Stainless Steel, Add</i>	34.91	
				<i>For Aluminum, Add</i>	1.96	
				<i>For Galvanized Steel, Add</i>	6.76	
				<i>For 304 Stainless Steel, Add</i>	31.09	
	05 12 23 00-0776			Flat Steel Bar <small>(05 12 23 00-0436)</small>		
	05 12 23 00-0777			1/8" Thick <small>(05 12 23 00-0776)</small>		
	05 12 23 00-0778	LF		1/8" Thick x 1" Wide Flat Steel Bar	2.47	1.26
				<i>For 316 Stainless Steel, Add</i>	1.86	
				<i>For Aluminum, Add</i>	0.10	
				<i>For Galvanized Steel, Add</i>	0.36	
				<i>For 304 Stainless Steel, Add</i>	1.65	
	05 12 23 00-0779	LF		1/8" Thick x 2" Wide Flat Steel Bar	3.80	1.89
				<i>For 316 Stainless Steel, Add</i>	3.07	
				<i>For Aluminum, Add</i>	0.17	
				<i>For Galvanized Steel, Add</i>	0.60	
				<i>For 304 Stainless Steel, Add</i>	2.74	
	05 12 23 00-0780	LF		1/8" Thick x 4" Wide Flat Steel Bar	5.74	2.67
				<i>For 316 Stainless Steel, Add</i>	5.60	
				<i>For Aluminum, Add</i>	0.32	
				<i>For Galvanized Steel, Add</i>	1.09	
				<i>For 304 Stainless Steel, Add</i>	4.99	
	05 12 23 00-0781	LF		1/8" Thick x 6" Wide Flat Steel Bar	7.78	3.61
				<i>For 316 Stainless Steel, Add</i>	7.55	
				<i>For Aluminum, Add</i>	0.42	
				<i>For Galvanized Steel, Add</i>	1.46	
				<i>For 304 Stainless Steel, Add</i>	6.73	
	05 12 23 00-0782			3/16" Thick <small>(05 12 23 00-0776)</small>		
	05 12 23 00-0783	LF		3/16" Thick x 1" Wide Flat Steel Bar	3.22	1.57
				<i>For 316 Stainless Steel, Add</i>	2.82	
				<i>For Aluminum, Add</i>	0.16	
				<i>For Galvanized Steel, Add</i>	0.55	
				<i>For 304 Stainless Steel, Add</i>	2.51	
	05 12 23 00-0784	LF		3/16" Thick x 2" Wide Flat Steel Bar	5.04	2.34
				<i>For 316 Stainless Steel, Add</i>	4.86	
				<i>For Aluminum, Add</i>	0.27	
				<i>For Galvanized Steel, Add</i>	0.94	
				<i>For 304 Stainless Steel, Add</i>	4.33	
	05 12 23 00-0785	LF		3/16" Thick x 4" Wide Flat Steel Bar	6.60	2.70
				<i>For 316 Stainless Steel, Add</i>	6.19	
				<i>For Aluminum, Add</i>	0.46	
				<i>For Galvanized Steel, Add</i>	1.59	
				<i>For 304 Stainless Steel, Add</i>	7.30	
	05 12 23 00-0786	LF		3/16" Thick x 6" Wide Flat Steel Bar	9.15	3.74
				<i>For 316 Stainless Steel, Add</i>	11.33	
				<i>For Aluminum, Add</i>	0.64	
				<i>For Galvanized Steel, Add</i>	2.19	
				<i>For 304 Stainless Steel, Add</i>	10.09	
	05 12 23 00-0787			1/4" Thick <small>(05 12 23 00-0776)</small>		
	05 12 23 00-0788	LF		1/4" Thick x 1" Wide Flat Steel Bar	3.36	1.65
				<i>For 316 Stainless Steel, Add</i>	2.78	
				<i>For Aluminum, Add</i>	0.16	
				<i>For Galvanized Steel, Add</i>	0.54	
				<i>For 304 Stainless Steel, Add</i>	2.48	
	05 12 23 00-0789	LF		1/4" Thick x 2" Wide Flat Steel Bar	5.48	2.49
				<i>For 316 Stainless Steel, Add</i>	5.63	
				<i>For Aluminum, Add</i>	0.32	
				<i>For Galvanized Steel, Add</i>	1.09	
				<i>For 304 Stainless Steel, Add</i>	5.02	
	05 12 23 00-0790	LF		1/4" Thick x 4" Wide Flat Steel Bar	7.66	2.84
				<i>For 316 Stainless Steel, Add</i>	10.88	
				<i>For Aluminum, Add</i>	0.61	
				<i>For Galvanized Steel, Add</i>	2.11	
				<i>For 304 Stainless Steel, Add</i>	9.69	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0791	LF		1/4" Thick x 6" Wide Flat Steel Bar	11.12	4.20
			For 316 Stainless Steel, Add	15.42	
			For Aluminum, Add	0.87	
			For Galvanized Steel, Add	2.99	
			For 304 Stainless Steel, Add	13.74	
05 12 23 00-0792			3/8" Thick (05 12 23 00-0776)		
05 12 23 00-0793	LF		3/8" Thick x 1" Wide Flat Steel Bar	4.16	1.86
			For 316 Stainless Steel, Add	4.35	
			For Aluminum, Add	0.24	
			For Galvanized Steel, Add	0.84	
			For 304 Stainless Steel, Add	3.88	
05 12 23 00-0794	LF		3/8" Thick x 2" Wide Flat Steel Bar	6.71	2.79
			For 316 Stainless Steel, Add	8.03	
			For Aluminum, Add	0.45	
			For Galvanized Steel, Add	1.56	
			For 304 Stainless Steel, Add	7.15	
05 12 23 00-0795	LF		3/8" Thick x 4" Wide Flat Steel Bar	9.82	3.18
			For 316 Stainless Steel, Add	16.10	
			For Aluminum, Add	0.91	
			For Galvanized Steel, Add	3.12	
			For 304 Stainless Steel, Add	14.34	
05 12 23 00-0796	LF		3/8" Thick x 6" Wide Flat Steel Bar	14.16	4.71
			For 316 Stainless Steel, Add	22.66	
			For Aluminum, Add	1.27	
			For Galvanized Steel, Add	4.39	
			For 304 Stainless Steel, Add	20.18	
05 12 23 00-0797			1/2" Thick (05 12 23 00-0776)		
05 12 23 00-0798	LF		1/2" Thick x 1" Wide Flat Steel Bar	4.83	2.04
			For 316 Stainless Steel, Add	5.60	
			For Aluminum, Add	0.32	
			For Galvanized Steel, Add	1.09	
			For 304 Stainless Steel, Add	4.99	
05 12 23 00-0799	LF		1/2" Thick x 2" Wide Flat Steel Bar	7.83	3.08
			For 316 Stainless Steel, Add	10.27	
			For Aluminum, Add	0.58	
			For Galvanized Steel, Add	1.99	
			For 304 Stainless Steel, Add	9.15	
05 12 23 00-0800	LF		1/2" Thick x 4" Wide Flat Steel Bar	10.73	3.50
			For 316 Stainless Steel, Add	17.50	
			For Aluminum, Add	0.98	
			For Galvanized Steel, Add	3.39	
			For 304 Stainless Steel, Add	15.59	
05 12 23 00-0801	LF		1/2" Thick x 6" Wide Flat Steel Bar	18.70	5.19
			For 316 Stainless Steel, Add	34.91	
			For Aluminum, Add	1.96	
			For Galvanized Steel, Add	6.76	
			For 304 Stainless Steel, Add	31.09	
05 12 23 00-0802			Flat Steel Plate (05 12 23 00-0438)		
05 12 23 00-0803	SF		1/8" Thick Flat Steel Plate	12.26	5.42
			For 316 Stainless Steel, Add	13.18	
			For Aluminum, Add	0.74	
			For Galvanized Steel, Add	2.55	
			For 304 Stainless Steel, Add	11.74	
05 12 23 00-0804	SF		3/16" Thick Flat Steel Plate	13.58	5.61
			For 316 Stainless Steel, Add	16.48	
			For Aluminum, Add	0.93	
			For Galvanized Steel, Add	3.19	
			For 304 Stainless Steel, Add	14.68	
05 12 23 00-0805	SF		1/4" Thick Flat Steel Plate	16.02	6.29
			For 316 Stainless Steel, Add	21.02	
			For Aluminum, Add	1.18	
			For Galvanized Steel, Add	4.07	
			For 304 Stainless Steel, Add	18.72	
05 12 23 00-0806	SF		3/8" Thick Flat Steel Plate	20.94	7.07
			For 316 Stainless Steel, Add	32.99	
			For Aluminum, Add	1.86	
			For Galvanized Steel, Add	6.39	
			For 304 Stainless Steel, Add	29.38	
05 12 23 00-0807	SF		1/2" Thick Flat Steel Plate	24.52	7.78
			For 316 Stainless Steel, Add	41.09	
			For Aluminum, Add	2.31	
			For Galvanized Steel, Add	7.96	
			For 304 Stainless Steel, Add	36.59	
05 12 23 00-0808	SF		3/4" Thick Flat Steel Plate	38.68	9.64
			For 316 Stainless Steel, Add	77.06	
			For Aluminum, Add	4.33	
			For Galvanized Steel, Add	14.93	
			For 304 Stainless Steel, Add	68.63	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 12 23 00-0809	SF		1" Thick Flat Steel Plate..... <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	51.22 105.50 5.93 20.44 93.96	12.04
05 14 Structural Aluminum Framing <small>(05 10)</small>						
05 14 13 Architecturally-Exposed Structural Aluminum Framing <small>(05 14)</small>						
05 14 13 00-0001 Rolled Or Plate Shapes <small>(05 14 13)</small>						
<i>Note: 1" through 10" member.</i>						
	05 14 13 00-0002	LB		Structural Aluminum, Up To 2,000 LB / Order 1" To 10" Rolled / Plate Structural Members	5.13	0.70
	05 14 13 00-0003	LB		Structural Aluminum, >2,000 - 9,999 LB / Order 1" To 10" Rolled / Plate Structural Members	4.54	0.65
05 14 13 00-0004 Aluminum Extrusions <small>(05 14 13)</small>						
	05 14 13 00-0005	LB		Aluminum Extrusions, Stock Shapes 1" To 10" Rolled / Plate Structural Members	9.29	2.90
	05 14 13 00-0006	LB		Aluminum Extrusions, Custom Shapes 1" To 10" Rolled / Plate Structural Members	9.73	2.90
05 14 13 00-0007 Aluminum Tubing <small>(05 14 13)</small>						
	05 14 13 00-0008	LB		Aluminum Extrusions, Tubular Shapes 1" To 10" Rolled / Plate Structural Members	10.59	3.05
	05 14 13 00-0009	LF		1" x 1" Aluminum Tubing, 1/8" Wall Thickness	12.26	4.95
	05 14 13 00-0010	LF		1-1/4" x 1-1/4" Aluminum Tubing, 1/8" Wall Thickness	14.10	5.39
	05 14 13 00-0011	LF		1-1/2" x 1-1/2" Aluminum Tubing, 1/8" Wall Thickness	16.31	6.30
	05 14 13 00-0012	LF		2" x 2" Aluminum Tubing, 1/8" Wall Thickness	18.46	6.74
	05 14 13 00-0013	LF		4" x 4" Aluminum Tubing, 1/4" Wall Thickness	39.95	8.54
	05 14 13 00-0014	LF		2" x 5" Aluminum Tubing, 1/4" Wall Thickness	33.53	7.65
05 14 13 00-0015 Columns <small>(05 14 13)</small>						
<i>Note: Baked on paint finish, load bearing.</i>						
05 14 13 00-0016 Round Columns <small>(05 14 13 00-0015)</small>						
	05 14 13 00-0017	LF		6" Diameter Aluminum Column	31.75	5.84
	05 14 13 00-0018	LF		8" Diameter Aluminum Column	42.21	8.37
	05 14 13 00-0019	LF		10" Diameter Aluminum Column	50.95	9.42
	05 14 13 00-0020	LF		12" Diameter Aluminum Column	73.54	9.86
	05 14 13 00-0021	LF		15" Diameter Aluminum Column	93.09	11.43
	05 14 13 00-0022	EA		6" Diameter Aluminum Base And Cap	60.72	10.91
	05 14 13 00-0023	EA		8" Diameter Aluminum Base And Cap	69.03	11.78
	05 14 13 00-0024	EA		10" Diameter Aluminum Base And Cap	85.93	13.09
	05 14 13 00-0025	EA		12" Diameter Aluminum Base And Cap	142.76	13.96
	05 14 13 00-0026	EA		15" Diameter Aluminum Base And Cap	214.51	15.27
05 14 13 00-0027 Octagonal Columns <small>(05 14 13 00-0015)</small>						
	05 14 13 00-0028	LF		6" Diameter Aluminum Column	34.51	5.84
	05 14 13 00-0029	LF		8" Diameter Aluminum Column	47.29	8.37
	05 14 13 00-0030	LF		10" Diameter Aluminum Column	57.37	9.42
	05 14 13 00-0031	LF		12" Diameter Aluminum Column	84.32	9.86
	05 14 13 00-0032	LF		15" Diameter Aluminum Column	107.15	11.43
	05 14 13 00-0033	EA		6" Diameter Aluminum Base And Cap	68.50	10.91
	05 14 13 00-0034	EA		8" Diameter Aluminum Base And Cap	78.12	11.78
	05 14 13 00-0035	EA		10" Diameter Aluminum Base And Cap	97.88	13.09
	05 14 13 00-0036	EA		12" Diameter Aluminum Base And Cap	165.72	13.96
	05 14 13 00-0037	EA		15" Diameter Aluminum Base And Cap	251.31	15.27
05 14 13 00-0038 Fluted Columns <small>(05 14 13 00-0015)</small>						
	05 14 13 00-0039	LF		6" Diameter Aluminum Column	37.95	5.84
	05 14 13 00-0040	LF		8" Diameter Aluminum Column	51.87	8.37
	05 14 13 00-0041	LF		10" Diameter Aluminum Column	63.15	9.42
	05 14 13 00-0042	LF		12" Diameter Aluminum Column	94.03	9.86
	05 14 13 00-0043	LF		15" Diameter Aluminum Column	119.80	11.43
	05 14 13 00-0044	EA		6" Diameter Aluminum Base And Cap	75.51	10.91
	05 14 13 00-0045	EA		8" Diameter Aluminum Base And Cap	86.30	11.78
	05 14 13 00-0046	EA		10" Diameter Aluminum Base And Cap	108.64	13.09
	05 14 13 00-0047	EA		12" Diameter Aluminum Base And Cap	186.39	13.96
	05 14 13 00-0048	EA		15" Diameter Aluminum Base And Cap	284.42	15.27
05 14 13 00-0049 Square Columns <small>(05 14 13 00-0015)</small>						
	05 14 13 00-0050	LF		6" Aluminum Column	40.30	5.84
	05 14 13 00-0051	LF		8" Aluminum Column	55.00	8.37
	05 14 13 00-0052	LF		10" Aluminum Column	67.10	9.42
	05 14 13 00-0053	LF		12" Aluminum Column	100.66	9.86
	05 14 13 00-0054	LF		15" Aluminum Column	128.46	11.43
	05 14 13 00-0055	EA		6" Aluminum Base And Cap	80.30	10.91

05 Metals**05 10 Structural Metal Framing****05 14 Structural Aluminum Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 14 13 00-0056	EA		8" Aluminum Base And Cap.....	91.90	11.78
05 14 13 00-0057	EA		10" Aluminum Base And Cap.....	116.00	13.09
05 14 13 00-0058	EA		12" Aluminum Base And Cap.....	200.53	13.96
05 14 13 00-0059	EA		15" Aluminum Base And Cap.....	307.07	15.27
05 14 13 00-0060			Ornamental Or Decorative Cap And Bases <small>(05 14 13 00-0015)</small>		
05 14 13 00-0061	EA		8" Corinthian Capital And Base.....	422.24	13.09
05 14 13 00-0062	EA		10" Corinthian Capital And Base.....	618.72	15.27
05 14 13 00-0063	EA		12" Corinthian Capital And Base.....	974.29	17.45
05 14 13 00-0064	EA		8" Scamozzi Capital And Base.....	214.05	13.09
05 14 13 00-0065	EA		10" Scamozzi Capital And Base.....	285.28	15.27
05 14 13 00-0066	EA		12" Scamozzi Capital And Base.....	565.02	17.45
05 15			Wire Rope Assemblies <small>(05 10)</small>		
05 15 16			Steel Wire Rope Assemblies <small>(05 15)</small>		
05 15 16 00-0001			6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0002	LF		1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.13	0.09
			<i>For >500, Deduct</i>	-0.19	
05 15 16 00-0003	LF		5/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.52	0.09
			<i>For >500, Deduct</i>	-0.26	
05 15 16 00-0004	LF		3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.81	0.18
			<i>For >500, Deduct</i>	-0.29	
05 15 16 00-0005	LF		7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.20	0.18
			<i>For >500, Deduct</i>	-0.35	
05 15 16 00-0006	LF		1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.57	0.27
			<i>For >500, Deduct</i>	-0.39	
05 15 16 00-0007	LF		9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.16	0.36
			<i>For >500, Deduct</i>	-0.47	
05 15 16 00-0008	LF		5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.78	0.36
			<i>For >500, Deduct</i>	-0.56	
05 15 16 00-0009	LF		3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.24	0.63
			<i>For >500, Deduct</i>	-0.76	
05 15 16 00-0010	LF		7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.05	0.72
			<i>For >500, Deduct</i>	-1.02	
05 15 16 00-0011	LF		1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.81	0.99
			<i>For >500, Deduct</i>	-1.25	
05 15 16 00-0012	LF		1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	10.90	1.26
			<i>For >500, Deduct</i>	-1.55	
05 15 16 00-0013	LF		1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	13.28	1.53
			<i>For >500, Deduct</i>	-1.89	
05 15 16 00-0014			6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0015	LF		1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.32	0.09
			<i>For >500, Deduct</i>	-0.23	
05 15 16 00-0016	LF		5/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.71	0.09
			<i>For >500, Deduct</i>	-0.29	
05 15 16 00-0017	LF		3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.13	0.18
			<i>For >500, Deduct</i>	-0.36	
05 15 16 00-0018	LF		7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.44	0.18
			<i>For >500, Deduct</i>	-0.39	
05 15 16 00-0019	LF		1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.93	0.27
			<i>For >500, Deduct</i>	-0.46	
05 15 16 00-0020	LF		9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.39	0.36
			<i>For >500, Deduct</i>	-0.52	
05 15 16 00-0021	LF		5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.97	0.36
			<i>For >500, Deduct</i>	-0.60	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 15 16 00-0022	LF		3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.81	0.63
				<i>For >500, Deduct</i>	-0.88	
	05 15 16 00-0023	LF		7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.48	0.72
				<i>For >500, Deduct</i>	-1.11	
	05 15 16 00-0024	LF		1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	9.22	0.99
				<i>For >500, Deduct</i>	-1.34	
	05 15 16 00-0025	LF		1-1/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	11.82	1.26
				<i>For >500, Deduct</i>	-1.72	
	05 15 16 00-0026	LF		1-1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	14.35	1.53
				<i>For >500, Deduct</i>	-2.10	
	05 15 16 00-0027			6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope <small>(05 15 16)</small>		
	05 15 16 00-0028	LF		1/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.05	0.09
				<i>For >500, Deduct</i>	-0.18	
	05 15 16 00-0029	LF		5/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.43	0.09
				<i>For >500, Deduct</i>	-0.24	
	05 15 16 00-0030	LF		3/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.71	0.18
				<i>For >500, Deduct</i>	-0.27	
	05 15 16 00-0031	LF		7/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.02	0.18
				<i>For >500, Deduct</i>	-0.31	
	05 15 16 00-0032	LF		1/2" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.45	0.27
				<i>For >500, Deduct</i>	-0.37	
	05 15 16 00-0033	LF		9/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.10	0.36
				<i>For >500, Deduct</i>	-0.46	
	05 15 16 00-0034	LF		5/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.64	0.36
				<i>For >500, Deduct</i>	-0.53	
	05 15 16 00-0035	LF		3/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	5.11	0.63
				<i>For >500, Deduct</i>	-0.74	
	05 15 16 00-0036	LF		7/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	6.30	0.72
				<i>For >500, Deduct</i>	-0.87	
	05 15 16 00-0037	LF		1" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	8.02	0.99
				<i>For >500, Deduct</i>	-1.10	
	05 15 16 00-0038			6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope <small>(05 15 16)</small>		
	05 15 16 00-0039	LF		1/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.04	0.09
				<i>For >500, Deduct</i>	-0.18	
	05 15 16 00-0040	LF		5/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.38	0.09
				<i>For >500, Deduct</i>	-0.23	
	05 15 16 00-0041	LF		3/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.71	0.18
				<i>For >500, Deduct</i>	-0.27	
	05 15 16 00-0042	LF		7/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.02	0.18
				<i>For >500, Deduct</i>	-0.31	
	05 15 16 00-0043	LF		1/2" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.55	0.27
				<i>For >500, Deduct</i>	-0.39	
	05 15 16 00-0044	LF		9/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.05	0.36
				<i>For >500, Deduct</i>	-0.45	
	05 15 16 00-0045	LF		5/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.83	0.36
				<i>For >500, Deduct</i>	-0.57	
	05 15 16 00-0046	LF		3/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.34	0.63
				<i>For >500, Deduct</i>	-0.78	
	05 15 16 00-0047	LF		7/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.00	0.72
				<i>For >500, Deduct</i>	-1.01	
	05 15 16 00-0048	LF		1" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.66	0.99
				<i>For >500, Deduct</i>	-1.23	
	05 15 16 00-0049			6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <small>(05 15 16)</small>		
	05 15 16 00-0050	LF		3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	1.93	0.18
				<i>For >500, Deduct</i>	-0.32	
	05 15 16 00-0051	LF		7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.28	0.18
				<i>For >500, Deduct</i>	-0.36	
	05 15 16 00-0052	LF		1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.68	0.27
				<i>For >500, Deduct</i>	-0.41	
	05 15 16 00-0053	LF		9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.60	0.36
				<i>For >500, Deduct</i>	-0.56	
	05 15 16 00-0054	LF		5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.99	0.36
				<i>For >500, Deduct</i>	-0.60	

05	Metals
05 10	Structural Metal Framing
05 15	Wire Rope Assemblies



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0055	LF	3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.45	0.63
		<i>For >500, Deduct</i>	-0.81	
05 15 16 00-0056	LF	7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	7.03	0.72
		<i>For >500, Deduct</i>	-1.02	
05 15 16 00-0057	LF	1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	9.25	0.99
		<i>For >500, Deduct</i>	-1.34	
05 15 16 00-0058	LF	1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	11.23	1.26
		<i>For >500, Deduct</i>	-1.61	
05 15 16 00-0059	LF	1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	13.56	1.53
		<i>For >500, Deduct</i>	-1.94	
05 15 16 00-0060		6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0061	LF	3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	1.98	0.18
		<i>For >500, Deduct</i>	-0.33	
05 15 16 00-0062	LF	7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.41	0.18
		<i>For >500, Deduct</i>	-0.39	
05 15 16 00-0063	LF	1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.86	0.27
		<i>For >500, Deduct</i>	-0.45	
05 15 16 00-0064	LF	9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.99	0.36
		<i>For >500, Deduct</i>	-0.64	
05 15 16 00-0065	LF	5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	4.06	0.36
		<i>For >500, Deduct</i>	-0.62	
05 15 16 00-0066	LF	3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.58	0.63
		<i>For >500, Deduct</i>	-0.83	
05 15 16 00-0067	LF	7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	7.41	0.72
		<i>For >500, Deduct</i>	-1.10	
05 15 16 00-0068	LF	1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	9.38	0.99
		<i>For >500, Deduct</i>	-1.37	
05 15 16 00-0069		19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0070	LF	1/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	2.01	0.09
		<i>For >500, Deduct</i>	-0.37	
05 15 16 00-0071	LF	5/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	2.19	0.09
		<i>For >500, Deduct</i>	-0.39	
05 15 16 00-0072	LF	3/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	2.58	0.18
		<i>For >500, Deduct</i>	-0.45	
05 15 16 00-0073	LF	7/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	3.47	0.18
		<i>For >500, Deduct</i>	-0.60	
05 15 16 00-0074	LF	1/2" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	3.94	0.18
		<i>For >500, Deduct</i>	-0.69	
05 15 16 00-0075	LF	9/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	4.60	0.36
		<i>For >500, Deduct</i>	-0.76	
05 15 16 00-0076	LF	5/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	5.48	0.36
		<i>For >500, Deduct</i>	-0.90	
05 15 16 00-0077	LF	3/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	7.54	0.54
		<i>For >500, Deduct</i>	-1.23	
05 15 16 00-0078		7x7, Galvanized Finish, Aircraft Cable <small>(05 15 16)</small>		
05 15 16 00-0079	LF	1/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.25	0.06
		<i>For >500, Deduct</i>	-0.03	
05 15 16 00-0080	LF	3/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.28	0.07
		<i>For >500, Deduct</i>	-0.03	
05 15 16 00-0081	LF	1/8" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.31	0.08
		<i>For >500, Deduct</i>	-0.04	
05 15 16 00-0082	LF	5/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.36	0.09
		<i>For >500, Deduct</i>	-0.04	
05 15 16 00-0083	LF	3/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.44	0.09
		<i>For >500, Deduct</i>	-0.06	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0084				7x19, Galvanized Finish, Aircraft Cable <small>(05 15 16)</small>		
05 15 16 00-0085	LF			1/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.43	0.08
				<i>For >500, Deduct</i>	-0.06	
05 15 16 00-0086	LF			5/32" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.46	0.09
				<i>For >500, Deduct</i>	-0.06	
05 15 16 00-0087	LF			3/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.53	0.09
				<i>For >500, Deduct</i>	-0.07	
05 15 16 00-0088	LF			1/4" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.62	0.09
				<i>For >500, Deduct</i>	-0.09	
05 15 16 00-0089	LF			5/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.93	0.09
				<i>For >500, Deduct</i>	-0.14	
05 15 16 00-0090	LF			3/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	1.25	0.09
				<i>For >500, Deduct</i>	-0.18	
05 15 16 00-0091				Heavy Duty, Galvanized Steel, Wire Rope Thimbles <small>(05 15 16)</small>		
05 15 16 00-0092	EA			1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	10.24	2.70
05 15 16 00-0093	EA			5/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	11.00	2.70
05 15 16 00-0094	EA			3/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	11.85	2.70
05 15 16 00-0095	EA			7/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	14.18	2.70
05 15 16 00-0096	EA			1/2" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	14.19	2.70
05 15 16 00-0097	EA			9/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	14.19	2.70
05 15 16 00-0098	EA			5/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	14.98	2.70
05 15 16 00-0099	EA			3/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	26.06	4.14
05 15 16 00-0100	EA			7/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	31.07	5.04
05 15 16 00-0101	EA			1" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	54.02	8.27
05 15 16 00-0102	EA			1-1/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	76.41	11.24
05 15 16 00-0103	EA			1-1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	76.41	11.24
05 15 16 00-0104				Galvanized Steel, Wire Rope Clips <small>(05 15 16)</small>		
05 15 16 00-0105	EA			1/8" Diameter, Galvanized Steel, Wire Rope Clip	11.95	2.70
05 15 16 00-0106	EA			3/16" Diameter, Galvanized Steel, Wire Rope Clip	12.13	2.70
05 15 16 00-0107	EA			1/4" Diameter, Galvanized Steel, Wire Rope Clip	13.38	2.70
05 15 16 00-0108	EA			5/16" Diameter, Galvanized Steel, Wire Rope Clip	13.57	2.70
05 15 16 00-0109	EA			3/8" Diameter, Galvanized Steel, Wire Rope Clip	13.85	2.70
05 15 16 00-0110	EA			7/16" Diameter, Galvanized Steel, Wire Rope Clip	16.53	2.70
05 15 16 00-0111	EA			1/2" Diameter, Galvanized Steel, Wire Rope Clip	16.74	2.70
05 15 16 00-0112	EA			9/16" Diameter, Galvanized Steel, Wire Rope Clip	18.77	2.70
05 15 16 00-0113	EA			5/8" Diameter, Galvanized Steel, Wire Rope Clip	19.04	2.70
05 15 16 00-0114	EA			3/4" Diameter, Galvanized Steel, Wire Rope Clip	26.54	3.60
05 15 16 00-0115	EA			7/8" Diameter, Galvanized Steel, Wire Rope Clip	40.16	5.39
05 15 16 00-0116	EA			1" Diameter, Galvanized Steel, Wire Rope Clip	43.55	5.39
05 15 16 00-0117	EA			1-1/8" Diameter, Galvanized Steel, Wire Rope Clip	51.97	7.19
05 15 16 00-0118	EA			1-1/4" Diameter, Galvanized Steel, Wire Rope Clip	75.62	10.80
05 15 16 00-0119				Steel, Open Swage Sockets <small>(05 15 16)</small>		
05 15 16 00-0120	EA			1/4" Diameter, Steel, Open Swage Socket	42.70	2.70
05 15 16 00-0121	EA			5/16" Diameter, Steel, Open Swage Socket	66.12	2.70
05 15 16 00-0122	EA			3/8" Diameter, Steel, Open Swage Socket	69.68	3.60
05 15 16 00-0123	EA			7/16" Diameter, Steel, Open Swage Socket	84.06	4.50
05 15 16 00-0124	EA			1/2" Diameter, Steel, Open Swage Socket	84.06	4.50
05 15 16 00-0125	EA			9/16" Diameter, Steel, Open Swage Socket	129.38	9.89
05 15 16 00-0126	EA			5/8" Diameter, Steel, Open Swage Socket	129.38	9.89
05 15 16 00-0127	EA			3/4" Diameter, Steel, Open Swage Socket	176.36	18.89
05 15 16 00-0128	EA			7/8" Diameter, Steel, Open Swage Socket	239.78	26.99
05 15 16 00-0129	EA			1" Diameter, Steel, Open Swage Socket	344.63	41.38
05 15 16 00-0130	EA			1-1/8" Diameter, Steel, Open Swage Socket	473.10	64.76
05 15 16 00-0131	EA			1-1/4" Diameter, Steel, Open Swage Socket	551.11	74.65
05 15 16 00-0132				Steel, Closed Swage Sockets <small>(05 15 16)</small>		
05 15 16 00-0133	EA			1/4" Diameter, Steel, Closed Swage Socket	35.20	2.70
05 15 16 00-0134	EA			5/16" Diameter, Steel, Closed Swage Socket	46.11	2.70
05 15 16 00-0135	EA			3/8" Diameter, Steel, Closed Swage Socket	46.11	2.70
05 15 16 00-0136	EA			7/16" Diameter, Steel, Closed Swage Socket	58.27	3.60
05 15 16 00-0137	EA			1/2" Diameter, Steel, Closed Swage Socket	59.26	3.60
05 15 16 00-0138	EA			9/16" Diameter, Steel, Closed Swage Socket	84.56	6.30
05 15 16 00-0139	EA			5/8" Diameter, Steel, Closed Swage Socket	88.85	7.19
05 15 16 00-0140	EA			3/4" Diameter, Steel, Closed Swage Socket	113.71	11.69
05 15 16 00-0141	EA			7/8" Diameter, Steel, Closed Swage Socket	151.11	17.09
05 15 16 00-0142	EA			1" Diameter, Steel, Closed Swage Socket	215.84	23.38
05 15 16 00-0143	EA			1-1/8" Diameter, Steel, Closed Swage Socket	272.92	32.38
05 15 16 00-0144	EA			1-1/4" Diameter, Steel, Closed Swage Socket	382.44	50.37
05 15 16 00-0145				Galvanized Steel, Open Spelter Sockets <small>(05 15 16)</small>		

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0146 EA 1/4" Galvanized Steel, Open Spelter Socket.....	68.56	2.70
05 15 16 00-0147 EA 5/16" Galvanized Steel, Open Spelter Socket.....	71.58	2.70
05 15 16 00-0148 EA 3/8" Galvanized Steel, Open Spelter Socket.....	71.58	2.70
05 15 16 00-0149 EA 7/16" Galvanized Steel, Open Spelter Socket.....	83.70	5.39
05 15 16 00-0150 EA 1/2" Galvanized Steel, Open Spelter Socket.....	83.70	5.39
05 15 16 00-0151 EA 9/16" Galvanized Steel, Open Spelter Socket.....	113.91	9.00
05 15 16 00-0152 EA 5/8" Galvanized Steel, Open Spelter Socket.....	113.91	9.00
05 15 16 00-0153 EA 3/4" Galvanized Steel, Open Spelter Socket.....	148.58	13.49
05 15 16 00-0154 EA 7/8" Galvanized Steel, Open Spelter Socket.....	226.36	22.49
05 15 16 00-0155 EA 1" Galvanized Steel, Open Spelter Socket.....	399.47	35.08
05 15 16 00-0156 EA 1-1/8" Galvanized Steel, Open Spelter Socket.....	499.64	56.66
05 15 16 00-0157 EA 1-1/4" Galvanized Steel, Open Spelter Socket.....	673.35	74.65
05 15 16 00-0158 Galvanized Steel, Closed Spelter Sockets (05 15 16)		
05 15 16 00-0159 EA 1/4" Galvanized Steel, Closed Spelter Socket.....	58.18	2.70
05 15 16 00-0160 EA 5/16" Galvanized Steel, Closed Spelter Socket.....	58.51	2.70
05 15 16 00-0161 EA 3/8" Galvanized Steel, Closed Spelter Socket.....	58.51	2.70
05 15 16 00-0162 EA 7/16" Galvanized Steel, Closed Spelter Socket.....	68.47	4.50
05 15 16 00-0163 EA 1/2" Galvanized Steel, Closed Spelter Socket.....	68.47	4.50
05 15 16 00-0164 EA 9/16" Galvanized Steel, Closed Spelter Socket.....	99.75	8.09
05 15 16 00-0165 EA 5/8" Galvanized Steel, Closed Spelter Socket.....	99.75	8.09
05 15 16 00-0166 EA 3/4" Galvanized Steel, Closed Spelter Socket.....	126.83	11.69
05 15 16 00-0167 EA 7/8" Galvanized Steel, Closed Spelter Socket.....	186.57	17.99
05 15 16 00-0168 EA 1" Galvanized Steel, Closed Spelter Socket.....	283.56	27.88
05 15 16 00-0169 EA 1-1/8" Galvanized Steel, Closed Spelter Socket.....	372.53	37.77
05 15 16 00-0170 EA 1-1/4" Galvanized Steel, Closed Spelter Socket.....	474.66	50.37
05 15 16 00-0171 Forged Steel, Jaw And Jaw Turnbuckles (05 15 16)		
05 15 16 00-0172 EA 1/4" x 4", Forged Steel, Jaw And Jaw Turnbuckle.....	41.37	2.70
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-4.86	
05 15 16 00-0173 EA 5/16" x 4-1/2", Forged Steel, Jaw And Jaw Turnbuckle.....	44.06	2.70
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-5.26	
05 15 16 00-0174 EA 3/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	49.05	2.70
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-6.01	
05 15 16 00-0175 EA 1/2" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	56.77	3.60
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-6.25	
05 15 16 00-0176 EA 1/2" x 9", Forged Steel, Jaw And Jaw Turnbuckle.....	74.18	4.50
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-8.32	
05 15 16 00-0177 EA 1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	84.45	5.39
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-9.42	
05 15 16 00-0178 EA 5/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	88.60	7.19
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-9.14	
05 15 16 00-0179 EA 5/8" x 9", Forged Steel, Jaw And Jaw Turnbuckle.....	107.63	7.19
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-11.65	
05 15 16 00-0180 EA 5/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	121.30	8.09
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-13.38	
05 15 16 00-0181 EA 3/4" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	119.93	9.89
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-12.25	
05 15 16 00-0182 EA 3/4" x 9", Forged Steel, Jaw And Jaw Turnbuckle.....	138.27	11.69
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-13.64	
05 15 16 00-0183 EA 3/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	167.48	12.59
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-17.41	
05 15 16 00-0184 EA 3/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	201.57	15.29
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-20.93	
05 15 16 00-0185 EA 7/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	236.45	21.58
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-22.62	
05 15 16 00-0186 EA 7/8" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	284.95	25.19
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-27.75	
05 15 16 00-0187 EA 1" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	244.08	21.58
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-23.76	
05 15 16 00-0188 EA 1" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	286.00	27.88
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-26.04	
05 15 16 00-0189 EA 1" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	384.80	35.08
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-36.96	
05 15 16 00-0190 EA 1" x 24", Forged Steel, Jaw And Jaw Turnbuckle.....	434.40	41.38
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-40.63	
05 15 16 00-0191 EA 1-1/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	492.26	50.37
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-43.86	
05 15 16 00-0192 EA 1-1/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	586.67	56.66
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-54.27	
05 15 16 00-0193 EA 1-1/4" x 24", Forged Steel, Jaw And Jaw Turnbuckle.....	743.97	64.76
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-73.05	
05 15 16 00-0194 EA 1-1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	746.12	69.26
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-70.41	
05 15 16 00-0195 EA 1-1/2" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	846.76	89.95
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-73.05	
05 15 16 00-0196 EA 1-1/2" x 24", Forged Steel, Jaw And Jaw Turnbuckle.....	1,432.49	116.92
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-147.42	
05 15 16 00-0197 EA 2" x 24", Forged Steel, Jaw And Jaw Turnbuckle.....	2,424.92	224.85
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-228.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 15 16 00-0198

Galvanized Steel, Drop Forged, Shoulder Eye Bolts (05 15 16)

05 15 16 00-0199	EA	1/4" Diameter Thread, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	10.69
05 15 16 00-0200	EA	5/16" Diameter Thread, 7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	10.73
05 15 16 00-0201	EA	3/8" Diameter Thread, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	11.74
05 15 16 00-0202	EA	7/16" Diameter Thread, 1-3/32" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	13.89
05 15 16 00-0203	EA	1/2" Diameter Thread, 1-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	13.84
05 15 16 00-0204	EA	5/8" Diameter Thread, 1-3/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	18.15
05 15 16 00-0205	EA	3/4" Diameter Thread, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	21.09
05 15 16 00-0206	EA	7/8" Diameter Thread, 1-11/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	27.66
05 15 16 00-0207	EA	1" Diameter Thread, 1-13/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	35.77
05 15 16 00-0208	EA	1-1/8" Diameter Thread, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	50.72
05 15 16 00-0209	EA	1-1/4" Diameter Thread, 2-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	59.96
05 15 16 00-0210	EA	1-1/2" Diameter Thread, 2-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	105.50
05 15 16 00-0211	EA	1-3/4" Diameter Thread, 2-7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	120.67
05 15 16 00-0212	EA	2" Diameter Thread, 3-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	148.34

05 15 16 00-0213

Galvanized Steel, Drop Forged, Eye Bolts (05 15 16)

05 15 16 00-0214	EA	1/4" Diameter Thread, 3" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	13.27
05 15 16 00-0215	EA	1/4" Diameter Thread, 4" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	12.33
05 15 16 00-0216	EA	5/16" Diameter Thread, 2-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	15.62
05 15 16 00-0217	EA	5/16" Diameter Thread, 4-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	11.48
05 15 16 00-0218	EA	3/8" Diameter Thread, 2-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	14.42
05 15 16 00-0219	EA	3/8" Diameter Thread, 3" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	20.30
05 15 16 00-0220	EA	3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	19.84
05 15 16 00-0221	EA	3/8" Diameter Thread, 4-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	19.00
05 15 16 00-0222	EA	3/8" Diameter Thread, 5" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	17.33
05 15 16 00-0223	EA	3/8" Diameter Thread, 6" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	17.88
05 15 16 00-0224	EA	1/2" Diameter Thread, 2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	16.32
05 15 16 00-0225	EA	1/2" Diameter Thread, 3" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	13.72
05 15 16 00-0226	EA	1/2" Diameter Thread, 3-1/4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	16.90
05 15 16 00-0227	EA	1/2" Diameter Thread, 4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	21.99
05 15 16 00-0228	EA	1/2" Diameter Thread, 4-1/2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	17.49
05 15 16 00-0229	EA	1/2" Diameter Thread, 6" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	26.21
05 15 16 00-0230	EA	1/2" Diameter Thread, 8" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	23.55
05 15 16 00-0231	EA	1/2" Diameter Thread, 10" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	21.86
05 15 16 00-0232	EA	1/2" Diameter Thread, 12" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	25.10
05 15 16 00-0233	EA	5/8" Diameter Thread, 4" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	25.58
05 15 16 00-0234	EA	5/8" Diameter Thread, 4-1/2" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	23.18
05 15 16 00-0235	EA	5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	28.29
05 15 16 00-0236	EA	5/8" Diameter Thread, 8" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	31.96
05 15 16 00-0237	EA	5/8" Diameter Thread, 10" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	36.35
05 15 16 00-0238	EA	5/8" Diameter Thread, 12" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	30.71
05 15 16 00-0239	EA	3/4" Diameter Thread, 4-1/2" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	30.46
05 15 16 00-0240	EA	3/4" Diameter Thread, 6" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	31.07
05 15 16 00-0241	EA	3/4" Diameter Thread, 8" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	34.03
05 15 16 00-0242	EA	3/4" Diameter Thread, 10" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	36.49
05 15 16 00-0243	EA	3/4" Diameter Thread, 12" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	41.98
05 15 16 00-0244	EA	1" Diameter Thread, 8" Shank Length, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	54.64

05 15 19

Stainless Steel Wire Rope Assemblies (05 15)

05 15 19 00-0001

7x7, 304 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0002	LF	1/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.36	0.06
		<i>For >500, Deduct</i>	-0.05	
05 15 19 00-0003	LF	3/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.47	0.07
		<i>For >500, Deduct</i>	-0.07	
05 15 19 00-0004	LF	1/8" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.65	0.08
		<i>For >500, Deduct</i>	-0.10	
05 15 19 00-0005	LF	5/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.88	0.09
		<i>For >500, Deduct</i>	-0.15	
05 15 19 00-0006	LF	3/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	1.12	0.09
		<i>For >500, Deduct</i>	-0.19	

05 15 19 00-0007

7x19, 304 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0008	LF	1/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.76	0.08
		<i>For >500, Deduct</i>	-0.13	
05 15 19 00-0009	LF	5/32" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.89	0.09
		<i>For >500, Deduct</i>	-0.15	
05 15 19 00-0010	LF	3/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	1.05	0.09
		<i>For >500, Deduct</i>	-0.18	
05 15 19 00-0011	LF	1/4" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	1.43	0.09
		<i>For >500, Deduct</i>	-0.25	
05 15 19 00-0012	LF	5/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	2.16	0.09
		<i>For >500, Deduct</i>	-0.38	
05 15 19 00-0013	LF	3/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	3.25	0.18
		<i>For >500, Deduct</i>	-0.58	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 15 19 00-0014		7x7, 316 Stainless Steel, Aircraft Cable <small>(05 15 19)</small>			
05 15 19 00-0015	LF	1/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.36		0.06
		<i>For >500, Deduct</i>	-0.05		
05 15 19 00-0016	LF	3/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.47		0.07
		<i>For >500, Deduct</i>	-0.07		
05 15 19 00-0017	LF	1/8" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.65		0.08
		<i>For >500, Deduct</i>	-0.10		
05 15 19 00-0018	LF	5/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.88		0.09
		<i>For >500, Deduct</i>	-0.15		
05 15 19 00-0019	LF	3/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	1.12		0.09
		<i>For >500, Deduct</i>	-0.19		
05 15 19 00-0020		7x19, 316 Stainless Steel, Aircraft Cable <small>(05 15 19)</small>			
05 15 19 00-0021	LF	1/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.76		0.08
		<i>For >500, Deduct</i>	-0.13		
05 15 19 00-0022	LF	5/32" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.89		0.09
		<i>For >500, Deduct</i>	-0.15		
05 15 19 00-0023	LF	3/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	1.05		0.09
		<i>For >500, Deduct</i>	-0.18		
05 15 19 00-0024	LF	1/4" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	1.43		0.09
		<i>For >500, Deduct</i>	-0.25		
05 15 19 00-0025	LF	5/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	2.16		0.09
		<i>For >500, Deduct</i>	-0.38		
05 15 19 00-0026	LF	3/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	3.25		0.09
		<i>For >500, Deduct</i>	-0.58		
05 40		Cold-Formed Metal Framing <small>(05)</small>			
		Note: Includes all connecting bolts and welds.			
05 41		Structural Metal Stud Framing <small>(05 40)</small>			
		Note: Includes studs, bridging, fasteners, and metal stiffener at half height. Do not deduct for openings of less than 25 SF.			
05 41 00 00-0001		18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners <small>(05 41)</small>			
05 41 00 00-0002	SF	2-1/2" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	3.52		0.78
		<i>For Walls >10' High, Add</i>	0.70		
		<i>For Curved Wall, Add</i>	0.55		
		<i>For Up To 200, Add</i>	1.07		
		<i>For >200 To 500, Add</i>	0.54		
		<i>For 12" On Center, Add</i>	0.61		
		<i>For 24" On Center, Deduct</i>	-0.61		
05 41 00 00-0003	SF	3-5/8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	3.91		0.78
		<i>For Walls >10' High, Add</i>	0.78		
		<i>For Curved Wall, Add</i>	0.58		
		<i>For Up To 200, Add</i>	1.17		
		<i>For >200 To 500, Add</i>	0.58		
		<i>For 12" On Center, Add</i>	0.69		
		<i>For 24" On Center, Deduct</i>	-0.69		
05 41 00 00-0004	SF	4" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	4.08		0.78
		<i>For Walls >10' High, Add</i>	0.82		
		<i>For Curved Wall, Add</i>	0.60		
		<i>For Up To 200, Add</i>	1.22		
		<i>For >200 To 500, Add</i>	0.61		
		<i>For 12" On Center, Add</i>	0.72		
		<i>For 24" On Center, Deduct</i>	-0.72		
05 41 00 00-0005	SF	6" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	5.07		0.87
		<i>For Walls >10' High, Add</i>	1.01		
		<i>For Curved Wall, Add</i>	0.63		
		<i>For Up To 200, Add</i>	1.43		
		<i>For >200 To 500, Add</i>	0.72		
		<i>For 12" On Center, Add</i>	0.91		
		<i>For 24" On Center, Deduct</i>	-0.91		
05 41 00 00-0006	SF	8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	5.63		0.96
		<i>For Walls >10' High, Add</i>	1.13		
		<i>For Curved Wall, Add</i>	0.65		
		<i>For Up To 200, Add</i>	1.56		
		<i>For >200 To 500, Add</i>	0.78		
		<i>For 12" On Center, Add</i>	1.02		
		<i>For 24" On Center, Deduct</i>	-1.02		
05 41 00 00-0007		16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners <small>(05 41)</small>			



Metals	05	05
Cold-Formed Metal Framing	05 40	
Structural Metal Stud Framing	05 41	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0008	SF		2-1/2" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners 3.78		0.78
			<i>For Walls >10' High, Add</i>	0.76	
			<i>For Curved Wall, Add</i>	0.58	
			<i>For Up To 200, Add</i>	1.14	
			<i>For >200 To 500, Add</i>	0.57	
			<i>For 12" On Center, Add</i>	0.66	
			<i>For 24" On Center, Deduct</i>	-0.66	
05 41 00 00-0009	SF		3-5/8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners 4.32		0.79
			<i>For Walls >10' High, Add</i>	0.86	
			<i>For Curved Wall, Add</i>	0.61	
			<i>For Up To 200, Add</i>	1.27	
			<i>For >200 To 500, Add</i>	0.64	
			<i>For 12" On Center, Add</i>	0.76	
			<i>For 24" On Center, Deduct</i>	-0.76	
05 41 00 00-0010	SF		4" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners 4.55		0.79
			<i>For Walls >10' High, Add</i>	0.91	
			<i>For Curved Wall, Add</i>	0.63	
			<i>For Up To 200, Add</i>	1.33	
			<i>For >200 To 500, Add</i>	0.67	
			<i>For 12" On Center, Add</i>	0.81	
			<i>For 24" On Center, Deduct</i>	-0.81	
05 41 00 00-0011	SF		6" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners 5.65		0.96
			<i>For Walls >10' High, Add</i>	1.13	
			<i>For Curved Wall, Add</i>	0.66	
			<i>For Up To 200, Add</i>	1.57	
			<i>For >200 To 500, Add</i>	0.79	
			<i>For 12" On Center, Add</i>	1.02	
			<i>For 24" On Center, Deduct</i>	-1.02	
05 41 00 00-0012	SF		8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners 6.19		1.04
			<i>For Walls >10' High, Add</i>	1.24	
			<i>For Curved Wall, Add</i>	0.69	
			<i>For Up To 200, Add</i>	1.70	
			<i>For >200 To 500, Add</i>	0.85	
			<i>For 12" On Center, Add</i>	1.12	
			<i>For 24" On Center, Deduct</i>	-1.12	
05 41 00 00-0013 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)					
05 41 00 00-0014	SF		3-5/8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners 5.13		1.09
			<i>For Walls >10' High, Add</i>	1.03	
			<i>For Curved Wall, Add</i>	0.73	
			<i>For Up To 200, Add</i>	1.51	
			<i>For >200 To 500, Add</i>	0.76	
			<i>For 12" On Center, Add</i>	0.91	
			<i>For 24" On Center, Deduct</i>	-0.91	
05 41 00 00-0015	SF		4" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners 5.27		1.11
			<i>For Walls >10' High, Add</i>	1.05	
			<i>For Curved Wall, Add</i>	0.74	
			<i>For Up To 200, Add</i>	1.55	
			<i>For >200 To 500, Add</i>	0.77	
			<i>For 12" On Center, Add</i>	0.93	
			<i>For 24" On Center, Deduct</i>	-0.93	
05 41 00 00-0016	SF		6" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners 6.50		1.17
			<i>For Walls >10' High, Add</i>	1.30	
			<i>For Curved Wall, Add</i>	0.78	
			<i>For Up To 200, Add</i>	1.82	
			<i>For >200 To 500, Add</i>	0.91	
			<i>For 12" On Center, Add</i>	1.17	
			<i>For 24" On Center, Deduct</i>	-1.17	
05 41 00 00-0017	SF		8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners 7.10		1.23
			<i>For Walls >10' High, Add</i>	1.42	
			<i>For Curved Wall, Add</i>	0.81	
			<i>For Up To 200, Add</i>	1.96	
			<i>For >200 To 500, Add</i>	0.98	
			<i>For 12" On Center, Add</i>	1.28	
			<i>For 24" On Center, Deduct</i>	-1.28	
05 42 Cold-Formed Metal Joist Framing (05 40)					
05 42 13 Cold-Formed Metal Floor Joist Framing (05 42)					
Note: Floor or roof joist framing					
05 42 13 00-0001 Steel Joists, 20 Gauge (05 42 13)					
05 42 13 00-0002	LF		5-1/2" - 20 Gauge Steel Joists 7.17		1.88
05 42 13 00-0003	LF		6" - 20 Gauge Steel Joists 7.91		2.36
05 42 13 00-0004	LF		7-1/4" - 20 Gauge Steel Joists 8.56		2.58
05 42 13 00-0005	LF		8" - 20 Gauge Steel Joists 9.56		2.75
05 42 13 00-0006 Steel Joists, 18 Gauge (05 42 13)					
05 42 13 00-0007	LF		5-1/2" - 18 Gauge Steel Joists 7.97		2.09
05 42 13 00-0008	LF		6" - 18 Gauge Steel Joists 8.83		2.62
05 42 13 00-0009	LF		7-1/4" - 18 Gauge Steel Joists 9.58		2.87

05 Metals**05 40 Cold-Formed Metal Framing****05 42 Cold-Formed Metal Joist Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 42 13 00-0010 LF 8" - 18 Gauge Steel Joists	9.89	3.05
05 42 13 00-0011 Steel Joists, 16 Gauge (05 42 13)		
05 42 13 00-0012 LF 7-1/4" - 16 Gauge Steel Joists	10.30	2.89
05 42 13 00-0013 LF 8" - 16 Gauge Steel Joists	10.87	3.05
05 42 13 00-0014 Steel Joists, 14 Gauge (05 42 13)		
05 42 13 00-0015 LF 9-1/4" - 14 Gauge Steel Joists	12.15	3.05
05 42 13 00-0016 LF 11-1/2" - 14 Gauge Steel Joists	13.17	3.22
05 42 13 00-0017 Steel Joists, 12 Gauge (05 42 13)		
05 42 13 00-0018 LF 9-1/4" - 12 Gauge Steel Joists	14.38	3.36
05 42 13 00-0019 LF 11-1/2" - 12 Gauge Steel Joists	15.68	3.55
05 42 13 00-0020 Steel Joists, 10 Gauge (05 42 13)		
05 42 13 00-0021 LF 9-1/4" - 10 Gauge Steel Joists	16.65	3.70
05 42 13 00-0022 LF 11-1/2" - 10 Gauge Steel Joists	18.25	3.89
05 42 13 00-0023 Steel Joists, 8 Gauge (05 42 13)		
05 42 13 00-0024 LF 9-1/4" - 8 Gauge Steel Joists	18.97	4.07
05 42 13 00-0025 LF 11-1/2" - 8 Gauge Steel Joists	20.84	4.28
05 42 23 Cold-Formed Metal Roof Joist Framing (05 42)		
See CSI section 05 42 13 00-0000 for metal joist framing.		
05 43 Slotted Channel Framing (05 40)		
05 43 00 00-0001 Unistrut Channel (05 43)		
Note: Excludes fasteners and accessories.		
05 43 00 00-0002 Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0003 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	8.75	2.03
For Powder Coating, Add	0.70	
For Galvanizing, Add	0.80	
05 43 00 00-0004 LF 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	8.98	2.03
For Powder Coating, Add	0.74	
For Galvanizing, Add	0.84	
05 43 00 00-0005 LF 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	9.32	2.03
For Powder Coating, Add	0.79	
For Galvanizing, Add	0.89	
05 43 00 00-0006 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	8.29	2.03
For Powder Coating, Add	0.63	
For Galvanizing, Add	0.72	
05 43 00 00-0007 LF 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel.....	7.30	2.03
For Powder Coating, Add	0.49	
For Galvanizing, Add	0.55	
05 43 00 00-0008 Stainless Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0009 304 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0010 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	19.10	2.03
05 43 00 00-0011 LF 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	22.78	2.03
05 43 00 00-0012 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	21.87	2.03
05 43 00 00-0013 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	27.55	2.03
05 43 00 00-0014 316 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0015 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	31.03	2.03
05 43 00 00-0016 Unistrut Closure Strips (05 43)		
05 43 00 00-0017 LF Raceway Closure Strip For Unistrut Channel	4.43	0.45
05 43 00 00-0018 Lock Nuts With Spring For Unistrut Channel (05 43)		
Note: Includes hex bolt.		
05 43 00 00-0019 Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018)		
Note: Includes hex bolt.		
05 43 00 00-0020 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel.....	5.87	
05 43 00 00-0021 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel	6.35	
05 43 00 00-0022 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel	6.71	
05 43 00 00-0023 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel	8.67	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 43 00 00-0024			Stainless Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018) Note: Includes hex bolt.		
05 43 00 00-0025	EA		1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	11.41	
05 43 00 00-0026	EA		3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	12.08	
05 43 00 00-0027	EA		1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	16.70	
05 43 00 00-0028	EA		5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	27.90	
05 43 00 00-0029			Lock Nuts Without Spring For Unistrut Channel (05 43) Note: Includes hex bolt.		
05 43 00 00-0030			Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0029) Note: Includes hex bolt.		
05 43 00 00-0031	EA		1/4-20, Steel Lock Nut Without Spring For Unistrut Channel.....	5.88	
05 43 00 00-0032	EA		3/8-16, Steel Lock Nut Without Spring For Unistrut Channel.....	6.42	
05 43 00 00-0033	EA		1/2-13, Steel Lock Nut Without Spring For Unistrut Channel.....	6.74	
05 43 00 00-0034	EA		5/8-11, Steel Lock Nut Without Spring For Unistrut Channel.....	9.23	
05 43 00 00-0035			Stainless Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0029) Note: Includes hex bolt.		
05 43 00 00-0036	EA		1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	8.44	
05 43 00 00-0037	EA		3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	9.98	
05 43 00 00-0038	EA		1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	10.80	
05 43 00 00-0039	EA		5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	27.20	
05 43 00 00-0040			Beam Clamp For Unistrut Channel (05 43)		
05 43 00 00-0041	EA		Unistrut Beam Clamp, 1-5/8" Channel P2675.....	17.49	6.74
05 43 00 00-0042	EA		Unistrut Beam Clamp, 1-5/8" Channel P2676.....	21.21	6.74
05 43 00 00-0043	EA		Add For Unistrut Swivel Nut, P2676	2.02	
05 43 00 00-0044			Beam Clamp Clevis Hangers For Unistrut Channel (05 43)		
05 43 00 00-0045	EA		Up To 3/8" Rod, Beam Clamp Clevis Hanger (Unistrut P2674)	18.78	6.74
05 43 00 00-0046	EA		Up To 1/2" Rod, Beam Clamp Clevis Hanger (Unistrut P2677)	21.74	6.74
05 43 00 00-0047	EA		Add For Unistrut Swivel Nut.....	2.02	
05 43 00 00-0048	EA		6-Hole ElectroGalvanized Steel Shelf Bracket For Unistrut.....	104.98	9.00
05 45			Metal Support Assemblies (05 40)		
05 45 16			Electrical Metal Supports (05 45) See CSI section 26 05 29 00-0000 for metal supports.		
05 50			Metal Fabrications (05)		
05 51			Metal Stairs (05 50)		
05 51 13			Metal Pan Stairs (05 51) Note: Open concrete filled metal pan stair and landing including steel stringer, safety nosing and concrete. Excludes handrail. See CSI section 05 52 13 00-0000 for handrails.		
05 51 13 00-0001			Open Concrete Filled Metal Pan Stair And Landing (05 51 13) Note: Includes steel stringer, safety nosing and concrete. Excludes handrail.		
05 51 13 00-0002	RSR		3'-6" Wide Open Concrete Filled Metal Pan Tread Stair.....	607.73	26.17
			<i>For Closed Riser, Add</i>	69.34	
05 51 13 00-0003	RSR		4'-0" Wide Open Concrete Filled Metal Pan Tread Stair.....	691.23	30.54
			<i>For Closed Riser, Add</i>	78.76	
05 51 13 00-0004	RSR		5'-0" Wide Open Concrete Filled Metal Pan Tread Stair.....	771.37	35.78
			<i>For Closed Riser, Add</i>	87.66	
05 51 13 00-0005	SF		Concrete Filled Steel Pan Landing	69.82	4.37
			Note: Conventional shape.		
05 51 19			Metal Grating Stairs (05 51) Note: Open steel grating tread metal stair and landing including steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0001			Open Steel Grating Tread Metal Stair And Landing (05 51 19) Note: Includes steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0002	RSR		3'-6" Wide Open Steel Grating Tread Metal Stair	303.35	34.90
			<i>For Closed Riser, Add</i>	35.60	
			<i>For Galvanized Steel, Add</i>	58.39	
05 51 19 00-0003	RSR		4'-0" Wide Open Steel Grating Tread Metal Stair	324.93	40.14
			<i>For Closed Riser, Add</i>	37.83	
			<i>For Galvanized Steel, Add</i>	61.17	
05 51 19 00-0004	RSR		5'-0" Wide Open Steel Grating Tread Metal Stair	361.13	47.12
			<i>For Closed Riser, Add</i>	41.76	
			<i>For Galvanized Steel, Add</i>	66.73	
05 51 19 00-0005	SF		Steel Grating Landing With Framing And 2 Pipe Handrail.....	57.48	4.37
			Note: Conventional shape.		
			<i>For Galvanized Steel, Add</i>	10.01	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 51 33 Metal Ladders (05 51)

Note: Includes factory prime.

05 51 33 13 Vertical Metal Ladders (05 51 33)

05 51 33 13-0001 Vertical Ladders (05 51 33 13)

Note: Climbing rungs are 3/4" corrugated steel round rungs on 12" centers. Stand-off brackets are 7"

05 51 33 13-0002	VLF 20" Wide Vertical Steel Ladder Primed	74.92	10.47
	For Galvanized Steel, Add	10.52	
	For Aluminum, Add	21.04	
05 51 33 13-0003	VLF 24" Wide Vertical Steel Ladder Primed	85.58	10.47
	For Galvanized Steel, Add	13.18	
	For Aluminum, Add	26.37	
05 51 33 13-0004	VLF 20" Wide Vertical Steel Caged Ladder Primed	177.82	17.45
	For Galvanized Steel, Add	30.55	
	For Aluminum, Add	61.10	
05 51 33 13-0005	VLF 24" Wide Vertical Steel Caged Ladder Primed	199.14	17.45
	For Galvanized Steel, Add	35.88	
	For Aluminum, Add	71.76	

05 51 33 13-0006 Vertical Ladders Options (05 51 33 13)

05 51 33 13-0007	EA 20" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed	223.61	32.71
	Note: Extends 42" above landing surface. Includes mounting bracket.		
	For Galvanized Steel, Add	39.54	
	For Aluminum, Add	79.09	
05 51 33 13-0008	EA 24" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed	244.26	34.90
	Note: Extends 42" above landing surface. Includes mounting bracket.		
	For Galvanized Steel, Add	43.61	
	For Aluminum, Add	87.23	
05 51 33 13-0009	EA Security Cage Entry Gate With Lockable Hasp	312.57	10.91
05 51 33 13-0010	EA 6' Security Ladder Guard	692.61	65.44
05 51 33 13-0011	EA 8' Security Ladder Guard	827.24	76.35
05 51 33 13-0012	EA Safety Chain Attachment	124.45	

05 51 33 13-0013 Welded Steel Ladder Cages (05 51 33 13)

Note: For existing fixed ladders up to 20" wide. Excludes the ladder.

05 51 33 13-0014 Powder Coated, Welded Steel Ladder Cages (05 51 33 13-0013)

05 51 33 13-0015	EA 7-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,284.55	130.88
05 51 33 13-0016	EA 8-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,391.43	135.25
05 51 33 13-0017	EA 9-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,476.97	139.60
05 51 33 13-0018	EA 10-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,568.20	143.97
05 51 33 13-0019	EA 11-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,622.45	148.33
05 51 33 13-0020	EA 12-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,709.41	152.70
05 51 33 13-0021	EA 13-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,786.42	157.05
05 51 33 13-0022	EA 14-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,886.19	161.42
05 51 33 13-0023	EA 15-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,983.12	165.78
05 51 33 13-0024	EA 16-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,062.96	170.15
05 51 33 13-0025	EA 17-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,159.88	174.50
05 51 33 13-0026	EA 18-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,253.96	178.87
05 51 33 13-0027	EA 19-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,346.61	183.23
05 51 33 13-0028	EA 20-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,513.24	187.59
05 51 33 13-0029	EA 21-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,564.63	191.95
05 51 33 13-0030	EA 22-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,651.60	196.32
05 51 33 13-0031	EA 23-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,731.45	200.69
05 51 33 13-0032	EA 24-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,805.61	205.04
05 51 33 13-0033	EA 25-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,967.97	209.41
05 51 33 13-0034	EA 26-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,056.36	213.77
05 51 33 13-0035	EA 27-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,139.05	218.14

05 51 33 13-0036 Stainless Steel, Welded Steel Ladder Cages (05 51 33 13-0013)

05 51 33 13-0037	EA 7-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	2,966.62	130.88
05 51 33 13-0038	EA 8-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	3,166.80	135.25
05 51 33 13-0039	EA 9-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	3,498.70	139.60
05 51 33 13-0040	EA 10-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	3,663.57	143.97
05 51 33 13-0041	EA 11-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	3,802.65	148.33
05 51 33 13-0042	EA 12-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	3,986.54	152.70
05 51 33 13-0043	EA 13-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	4,315.72	157.05
05 51 33 13-0044	EA 14-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	4,483.32	161.42
05 51 33 13-0045	EA 15-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	4,656.35	165.78
05 51 33 13-0046	EA 16-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	4,845.67	170.15
05 51 33 13-0047	EA 17-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,181.63	174.50
05 51 33 13-0048	EA 18-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,350.59	178.87
05 51 33 13-0049	EA 19-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,511.39	183.23
05 51 33 13-0050	EA 20-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,776.76	187.59
05 51 33 13-0051	EA 21-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	6,074.70	191.95
05 51 33 13-0052	EA 22-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	6,240.94	196.32
05 51 33 13-0053	EA 23-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	6,411.25	200.69
05 51 33 13-0054	EA 24-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	6,570.70	205.04
05 51 33 13-0055	EA 25-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	6,977.27	209.41



Metals	05	05
Metal Fabrications	05 50	
Metal Stairs	05 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 51 33 13-0056	EA	26-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	7,136.73	213.77
05 51 33 13-0057	EA	27-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	7,300.24	218.14

05 51 33 16 Inclined Metal Ladders (05 51 33)

05 51 33 16-0001 Industrial Ship Ladder, Incline Stairs (05 51 33 16)

Note: Includes factory prime.

05 51 33 16-0002	RSR	3' Wide Industrial Steel Ship Ladder With 2 Rails Each Side.....	227.04	43.62
		<i>For Aluminum, Add</i>	69.89	

05 51 33 23 Alternating Tread Ladders (05 51 33)

05 51 33 23-0001 Vertical Ladders With Alternating Tread (05 51 33 23)

05 51 33 23-0002	EA	4' Vertical Height Aluminum Alternating Tread Ladder	1,315.82	130.88
		<i>For Stainless Steel, Add</i>	196.80	
		<i>For Primed Steel, Deduct</i>	-191.42	
05 51 33 23-0003	EA	5' Vertical Height Aluminum Alternating Tread Ladder	1,494.21	138.73
		<i>For Stainless Steel, Add</i>	240.90	
		<i>For Primed Steel, Deduct</i>	-223.30	
05 51 33 23-0004	EA	6' Vertical Height Aluminum Alternating Tread Ladder	1,639.81	138.73
		<i>For Stainless Steel, Add</i>	288.67	
		<i>For Primed Steel, Deduct</i>	-241.55	
05 51 33 23-0005	EA	7' Vertical Height Aluminum Alternating Tread Ladder	1,890.81	174.33
		<i>For Stainless Steel, Add</i>	347.24	
		<i>For Primed Steel, Deduct</i>	-256.61	
05 51 33 23-0006	EA	8' Vertical Height Aluminum Alternating Tread Ladder	2,062.56	180.51
		<i>For Stainless Steel, Add</i>	388.99	
		<i>For Primed Steel, Deduct</i>	-298.53	
05 51 33 23-0007	EA	9' Vertical Height Aluminum Alternating Tread Ladder	2,191.21	180.51
		<i>For Stainless Steel, Add</i>	453.51	
		<i>For Primed Steel, Deduct</i>	-293.53	
05 51 33 23-0008	EA	10' Vertical Height Aluminum Alternating Tread Ladder	2,410.14	201.35
		<i>For Stainless Steel, Add</i>	497.40	
		<i>For Primed Steel, Deduct</i>	-327.55	
05 51 33 23-0009	EA	11' Vertical Height Aluminum Alternating Tread Ladder	2,554.28	201.35
		<i>For Stainless Steel, Add</i>	546.61	
		<i>For Primed Steel, Deduct</i>	-347.07	
05 51 33 23-0010	EA	12' Vertical Height Aluminum Alternating Tread Ladder	2,666.43	201.35
		<i>For Stainless Steel, Add</i>	623.99	
		<i>For Primed Steel, Deduct</i>	-346.65	

05 52 Metal Railings (05 50)

05 52 13 Pipe And Tube Railings (05 52)

Note: Includes embedded steel sleeves, grouting, connection bolts (where necessary) and drilling of bolt (where necessary).

05 52 13 00-0001 Welded Steel Pipe Railing (05 52 13)

Note: Includes field welds and touch-up of welds.

05 52 13 00-0002 One Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)

Note: Includes factory primed posts and one rail.

05 52 13 00-0003	LF	1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	38.40	8.72
		<i>For Schedule 80 Handrail, Add</i>	3.03	
		<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.61	
		<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.24	
		<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.91	
		<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-8.17	
		<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	11.98	
		<i>For Aluminum, Satin Finish, Add</i>	8.80	
		<i>For Aluminum, Clear Anodized Finish, Add</i>	13.62	
		<i>For Aluminum, Dark Anodized Finish, Add</i>	15.71	
		<i>For Galvanizing, Add</i>	8.38	
		<i>For Wrought Iron, Add</i>	3.84	
		<i>For Solid Steel Rails, Add</i>	7.68	
		<i>For 304 Stainless Steel, Add</i>	67.04	
		<i>For 316 Stainless Steel, Add</i>	75.42	
		<i>For 2" Wheel Guard, Add</i>	1.99	
		<i>For 4" High Kick Plate, Add</i>	2.62	
		<i>For 6" High Kick Plate, Add</i>	4.19	
		<i>For Curved Rail, Add</i>	17.81	
		<i>For Mounting On Stairs, Add</i>	4.71	
		<i>For Mounting On Slopes, Add</i>	1.75	
		<i>For Post Base Flange With Screws, Add Per Post</i>	19.25	
		<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.12	
		<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	14.84	
		<i>For Nylon Coating, Add</i>	3.14	

05	Metals
05 50	Metal Fabrications
05 52	Metal Railings



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 52 13 00-0004	LF 1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	42.00	8.72
	For Schedule 80 Handrail, Add	4.46	
	For 11 Gauge A513 Steel Tubing, Deduct	-5.40	
	For 12 Gauge A513 Steel Tubing, Deduct	-6.14	
	For 14 Gauge A513 Steel Tubing, Deduct	-8.10	
	For 16 Gauge A513 Steel Tubing, Deduct	-9.57	
	For Additional Off Set Handrail, ADA Attachment, Add	11.98	
	For Aluminum, Satin Finish, Add	10.31	
	For Aluminum, Clear Anodized Finish, Add	15.96	
	For Aluminum, Dark Anodized Finish, Add	18.41	
	For Galvanizing, Add	9.82	
	For Wrought Iron, Add	4.20	
	For Solid Steel Rails, Add	8.40	
	For 304 Stainless Steel, Add	78.56	
	For 316 Stainless Steel, Add	88.38	
	For 2" Wheel Guard, Add	2.33	
	For 4" High Kick Plate, Add	3.07	
	For 6" High Kick Plate, Add	4.91	
	For Curved Rail, Add	19.97	
	For Mounting On Stairs, Add	5.07	
	For Mounting On Slopes, Add	1.75	
	For Post Base Flange With Screws, Add Per Post	19.25	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.12	
	For Custom Design Or Shapes (Square Tops, etc), Add	16.64	
	For Nylon Coating, Add	3.68	
05 52 13 00-0005	LF 1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	45.61	8.72
	For Schedule 80 Handrail, Add	4.46	
	For 11 Gauge A513 Steel Tubing, Deduct	-6.20	
	For 12 Gauge A513 Steel Tubing, Deduct	-7.04	
	For 14 Gauge A513 Steel Tubing, Deduct	-9.29	
	For 16 Gauge A513 Steel Tubing, Deduct	-10.98	
	For Additional Off Set Handrail, ADA Attachment, Add	11.98	
	For Aluminum, Satin Finish, Add	11.83	
	For Aluminum, Clear Anodized Finish, Add	18.30	
	For Aluminum, Dark Anodized Finish, Add	21.12	
	For Galvanizing, Add	11.26	
	For Wrought Iron, Add	4.56	
	For Solid Steel Rails, Add	9.12	
	For 304 Stainless Steel, Add	90.11	
	For 316 Stainless Steel, Add	101.38	
	For 2" Wheel Guard, Add	2.68	
	For 4" High Kick Plate, Add	3.52	
	For 6" High Kick Plate, Add	5.63	
	For Curved Rail, Add	22.13	
	For Mounting On Stairs, Add	5.43	
	For Mounting On Slopes, Add	1.75	
	For Post Base Flange With Screws, Add Per Post	19.25	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.12	
	For Custom Design Or Shapes (Square Tops, etc), Add	18.44	
	For Nylon Coating, Add	4.22	
05 52 13 00-0006	LF 2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	51.87	8.72
	For Schedule 80 Handrail, Add	5.04	
	For 11 Gauge A513 Steel Tubing, Deduct	-7.57	
	For 12 Gauge A513 Steel Tubing, Deduct	-8.61	
	For 14 Gauge A513 Steel Tubing, Deduct	-11.36	
	For 16 Gauge A513 Steel Tubing, Deduct	-13.42	
	For Additional Off Set Handrail, ADA Attachment, Add	11.98	
	For Aluminum, Satin Finish, Add	14.46	
	For Aluminum, Clear Anodized Finish, Add	22.37	
	For Aluminum, Dark Anodized Finish, Add	25.82	
	For Galvanizing, Add	13.77	
	For Wrought Iron, Add	5.19	
	For Solid Steel Rails, Add	10.37	
	For 304 Stainless Steel, Add	110.14	
	For 316 Stainless Steel, Add	123.91	
	For 2" Wheel Guard, Add	3.27	
	For 4" High Kick Plate, Add	4.30	
	For 6" High Kick Plate, Add	6.88	
	For Curved Rail, Add	25.89	
	For Mounting On Stairs, Add	6.06	
	For Mounting On Slopes, Add	1.75	
	For Post Base Flange With Screws, Add Per Post	19.25	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.12	
	For Custom Design Or Shapes (Square Tops, etc), Add	21.57	
	For Nylon Coating, Add	5.16	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52	13 00-0007	LF	2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	59.37	8.72
			<i>For Schedule 80 Handrail, Add</i>	5.62	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-9.22	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-10.48	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-13.83	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-16.35	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	11.98	
			<i>For Aluminum, Satin Finish, Add</i>	17.61	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	27.25	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	31.44	
			<i>For Galvanizing, Add</i>	16.77	
			<i>For Wrought Iron, Add</i>	5.94	
			<i>For Solid Steel Rails, Add</i>	11.87	
			<i>For 304 Stainless Steel, Add</i>	134.14	
			<i>For 316 Stainless Steel, Add</i>	150.91	
			<i>For 2" Wheel Guard, Add</i>	3.98	
			<i>For 4" High Kick Plate, Add</i>	5.24	
			<i>For 6" High Kick Plate, Add</i>	8.38	
			<i>For Curved Rail, Add</i>	30.39	
			<i>For Mounting On Stairs, Add</i>	6.81	
			<i>For Mounting On Slopes, Add</i>	1.75	
			<i>For Post Base Flange With Screws, Add Per Post</i>	19.25	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.12	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	25.32	
			<i>For Nylon Coating, Add</i>	6.29	
05 52	13 00-0008		Two Rail, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13 00-0001)</small>		
			Note: Includes factory primed posts and two rails.		
05 52	13 00-0009	LF	1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	43.63	8.72
			<i>For Schedule 80 Handrail, Add</i>	3.03	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-5.76	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-6.55	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-8.64	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-10.21	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	11.98	
			<i>For Aluminum, Satin Finish, Add</i>	11.00	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	17.02	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	19.64	
			<i>For Galvanizing, Add</i>	10.47	
			<i>For Wrought Iron, Add</i>	4.36	
			<i>For Solid Steel Rails, Add</i>	8.73	
			<i>For 304 Stainless Steel, Add</i>	83.78	
			<i>For 316 Stainless Steel, Add</i>	94.25	
			<i>For 2" Wheel Guard, Add</i>	2.49	
			<i>For 4" High Kick Plate, Add</i>	3.27	
			<i>For 6" High Kick Plate, Add</i>	5.24	
			<i>For Curved Rail, Add</i>	20.94	
			<i>For Mounting On Stairs, Add</i>	5.24	
			<i>For Mounting On Slopes, Add</i>	1.75	
			<i>For Post Base Flange With Screws, Add Per Post</i>	19.25	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.12	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	17.45	
			<i>For Nylon Coating, Add</i>	3.93	
05 52	13 00-0010	LF	1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	48.14	8.72
			<i>For Schedule 80 Handrail, Add</i>	4.46	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-6.75	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.67	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-10.13	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-11.97	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	11.98	
			<i>For Aluminum, Satin Finish, Add</i>	12.89	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	19.95	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	23.02	
			<i>For Galvanizing, Add</i>	12.28	
			<i>For Wrought Iron, Add</i>	4.81	
			<i>For Solid Steel Rails, Add</i>	9.63	
			<i>For 304 Stainless Steel, Add</i>	98.21	
			<i>For 316 Stainless Steel, Add</i>	110.48	
			<i>For 2" Wheel Guard, Add</i>	2.92	
			<i>For 4" High Kick Plate, Add</i>	3.84	
			<i>For 6" High Kick Plate, Add</i>	6.14	
			<i>For Curved Rail, Add</i>	23.65	
			<i>For Mounting On Stairs, Add</i>	5.69	
			<i>For Mounting On Slopes, Add</i>	1.75	
			<i>For Post Base Flange With Screws, Add Per Post</i>	19.25	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.12	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	19.71	
			<i>For Nylon Coating, Add</i>	4.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0011 LF 1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	52.65	8.72
For Schedule 80 Handrail, Add	4.46	
For 11 Gauge A513 Steel Tubing, Deduct	-7.74	
For 12 Gauge A513 Steel Tubing, Deduct	-8.80	
For 14 Gauge A513 Steel Tubing, Deduct	-11.62	
For 16 Gauge A513 Steel Tubing, Deduct	-13.73	
For Additional Off Set Handrail, ADA Attachment, Add	11.98	
For Aluminum, Satin Finish, Add	14.78	
For Aluminum, Clear Anodized Finish, Add	22.88	
For Aluminum, Dark Anodized Finish, Add	26.40	
For Galvanizing, Add	14.08	
For Wrought Iron, Add	5.27	
For Solid Steel Rails, Add	10.53	
For 304 Stainless Steel, Add	112.64	
For 316 Stainless Steel, Add	126.72	
For 2" Wheel Guard, Add	3.34	
For 4" High Kick Plate, Add	4.40	
For 6" High Kick Plate, Add	7.04	
For Curved Rail, Add	26.36	
For Mounting On Stairs, Add	6.14	
For Mounting On Slopes, Add	1.75	
For Post Base Flange With Screws, Add Per Post	19.25	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.12	
For Custom Design Or Shapes (Square Tops, etc), Add	21.96	
For Nylon Coating, Add	5.28	
05 52 13 00-0012 LF 2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	60.47	8.72
For Schedule 80 Handrail, Add	5.04	
For 11 Gauge A513 Steel Tubing, Deduct	-9.46	
For 12 Gauge A513 Steel Tubing, Deduct	-10.76	
For 14 Gauge A513 Steel Tubing, Deduct	-14.20	
For 16 Gauge A513 Steel Tubing, Deduct	-16.78	
For Additional Off Set Handrail, ADA Attachment, Add	11.98	
For Aluminum, Satin Finish, Add	18.07	
For Aluminum, Clear Anodized Finish, Add	27.96	
For Aluminum, Dark Anodized Finish, Add	32.27	
For Galvanizing, Add	17.21	
For Wrought Iron, Add	6.05	
For Solid Steel Rails, Add	12.09	
For 304 Stainless Steel, Add	137.66	
For 316 Stainless Steel, Add	154.87	
For 2" Wheel Guard, Add	4.09	
For 4" High Kick Plate, Add	5.38	
For 6" High Kick Plate, Add	8.60	
For Curved Rail, Add	31.05	
For Mounting On Stairs, Add	6.92	
For Mounting On Slopes, Add	1.75	
For Post Base Flange With Screws, Add Per Post	19.25	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.12	
For Custom Design Or Shapes (Square Tops, etc), Add	25.87	
For Nylon Coating, Add	6.45	
05 52 13 00-0013 LF 2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	69.85	8.72
For Schedule 80 Handrail, Add	5.62	
For 11 Gauge A513 Steel Tubing, Deduct	-11.53	
For 12 Gauge A513 Steel Tubing, Deduct	-13.10	
For 14 Gauge A513 Steel Tubing, Deduct	-17.29	
For 16 Gauge A513 Steel Tubing, Deduct	-20.44	
For Additional Off Set Handrail, ADA Attachment, Add	11.98	
For Aluminum, Satin Finish, Add	22.01	
For Aluminum, Clear Anodized Finish, Add	34.06	
For Aluminum, Dark Anodized Finish, Add	39.30	
For Galvanizing, Add	20.96	
For Wrought Iron, Add	6.99	
For Solid Steel Rails, Add	13.97	
For 304 Stainless Steel, Add	167.68	
For 316 Stainless Steel, Add	188.64	
For 2" Wheel Guard, Add	4.98	
For 4" High Kick Plate, Add	6.55	
For 6" High Kick Plate, Add	10.48	
For Curved Rail, Add	36.68	
For Mounting On Stairs, Add	7.86	
For Mounting On Slopes, Add	1.75	
For Post Base Flange With Screws, Add Per Post	19.25	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.12	
For Custom Design Or Shapes (Square Tops, etc), Add	30.56	
For Nylon Coating, Add	7.86	

05 52 13 00-0014 Three Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)
Note: Includes factory primed posts and three rails.



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0015 LF 1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	58.36	10.47
For Schedule 80 Handrail, Add	4.50	
For 11 Gauge A513 Steel Tubing, Deduct	-8.23	
For 12 Gauge A513 Steel Tubing, Deduct	-9.36	
For 14 Gauge A513 Steel Tubing, Deduct	-12.35	
For 16 Gauge A513 Steel Tubing, Deduct	-14.59	
For Additional Off Set Handrail, ADA Attachment, Add	12.68	
For Aluminum, Satin Finish, Add	15.72	
For Aluminum, Clear Anodized Finish, Add	24.32	
For Aluminum, Dark Anodized Finish, Add	28.07	
For Galvanizing, Add	14.97	
For Wrought Iron, Add	5.84	
For Solid Steel Rails, Add	11.67	
For 304 Stainless Steel, Add	119.74	
For 316 Stainless Steel, Add	134.71	
For 2" Wheel Guard, Add	3.55	
For 4" High Kick Plate, Add	4.68	
For 6" High Kick Plate, Add	7.48	
For Curved Rail, Add	28.73	
For Mounting On Stairs, Add	6.88	
For Mounting On Slopes, Add	2.09	
For Post Base Flange With Screws, Add Per Post	19.59	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.64	
For Custom Design Or Shapes (Square Tops, etc), Add	23.95	
For Nylon Coating, Add	5.61	
05 52 13 00-0016 LF 1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	64.81	10.47
For Schedule 80 Handrail, Add	6.40	
For 11 Gauge A513 Steel Tubing, Deduct	-9.65	
For 12 Gauge A513 Steel Tubing, Deduct	-10.97	
For 14 Gauge A513 Steel Tubing, Deduct	-14.48	
For 16 Gauge A513 Steel Tubing, Deduct	-17.11	
For Additional Off Set Handrail, ADA Attachment, Add	12.68	
For Aluminum, Satin Finish, Add	18.43	
For Aluminum, Clear Anodized Finish, Add	28.52	
For Aluminum, Dark Anodized Finish, Add	32.90	
For Galvanizing, Add	17.55	
For Wrought Iron, Add	6.48	
For Solid Steel Rails, Add	12.96	
For 304 Stainless Steel, Add	140.38	
For 316 Stainless Steel, Add	157.93	
For 2" Wheel Guard, Add	4.17	
For 4" High Kick Plate, Add	5.48	
For 6" High Kick Plate, Add	8.77	
For Curved Rail, Add	32.60	
For Mounting On Stairs, Add	7.53	
For Mounting On Slopes, Add	2.09	
For Post Base Flange With Screws, Add Per Post	19.59	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.64	
For Custom Design Or Shapes (Square Tops, etc), Add	27.17	
For Nylon Coating, Add	6.58	
05 52 13 00-0017 LF 1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	71.25	10.47
For Schedule 80 Handrail, Add	6.40	
For 11 Gauge A513 Steel Tubing, Deduct	-11.07	
For 12 Gauge A513 Steel Tubing, Deduct	-12.58	
For 14 Gauge A513 Steel Tubing, Deduct	-16.60	
For 16 Gauge A513 Steel Tubing, Deduct	-19.62	
For Additional Off Set Handrail, ADA Attachment, Add	12.68	
For Aluminum, Satin Finish, Add	21.13	
For Aluminum, Clear Anodized Finish, Add	32.70	
For Aluminum, Dark Anodized Finish, Add	37.73	
For Galvanizing, Add	20.12	
For Wrought Iron, Add	7.13	
For Solid Steel Rails, Add	14.25	
For 304 Stainless Steel, Add	160.99	
For 316 Stainless Steel, Add	181.12	
For 2" Wheel Guard, Add	4.78	
For 4" High Kick Plate, Add	6.29	
For 6" High Kick Plate, Add	10.06	
For Curved Rail, Add	36.47	
For Mounting On Stairs, Add	8.17	
For Mounting On Slopes, Add	2.09	
For Post Base Flange With Screws, Add Per Post	19.59	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.64	
For Custom Design Or Shapes (Square Tops, etc), Add	30.39	
For Nylon Coating, Add	7.55	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0018	LF		2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	82.45	10.47
			<i>For Schedule 80 Handrail, Add</i>	7.17	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-13.53	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-15.38	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-20.30	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-23.99	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	12.68	
			<i>For Aluminum, Satin Finish, Add</i>	25.83	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	39.98	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	46.13	
			<i>For Galvanizing, Add</i>	24.60	
			<i>For Wrought Iron, Add</i>	8.25	
			<i>For Solid Steel Rails, Add</i>	16.49	
			<i>For 304 Stainless Steel, Add</i>	196.83	
			<i>For 316 Stainless Steel, Add</i>	221.44	
			<i>For 2" Wheel Guard, Add</i>	5.84	
			<i>For 4" High Kick Plate, Add</i>	7.69	
			<i>For 6" High Kick Plate, Add</i>	12.30	
			<i>For Curved Rail, Add</i>	43.19	
			<i>For Mounting On Stairs, Add</i>	9.29	
			<i>For Mounting On Slopes, Add</i>	2.09	
			<i>For Post Base Flange With Screws, Add Per Post</i>	19.59	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.64	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	35.99	
			<i>For Nylon Coating, Add</i>	9.23	
05 52 13 00-0019	LF		2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	95.78	10.47
			<i>For Schedule 80 Handrail, Add</i>	7.94	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-16.46	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-18.71	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-24.70	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-29.19	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	12.68	
			<i>For Aluminum, Satin Finish, Add</i>	31.43	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	48.65	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	56.13	
			<i>For Galvanizing, Add</i>	29.94	
			<i>For Wrought Iron, Add</i>	9.58	
			<i>For Solid Steel Rails, Add</i>	19.16	
			<i>For 304 Stainless Steel, Add</i>	239.49	
			<i>For 316 Stainless Steel, Add</i>	269.42	
			<i>For 2" Wheel Guard, Add</i>	7.11	
			<i>For 4" High Kick Plate, Add</i>	9.36	
			<i>For 6" High Kick Plate, Add</i>	14.97	
			<i>For Curved Rail, Add</i>	51.19	
			<i>For Mounting On Stairs, Add</i>	10.63	
			<i>For Mounting On Slopes, Add</i>	2.09	
			<i>For Post Base Flange With Screws, Add Per Post</i>	19.59	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.64	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	42.66	
			<i>For Nylon Coating, Add</i>	11.23	
05 52 13 00-0020			Four Rail, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13 00-0001)</small>		
			Note: Includes factory primed posts and four rails.		
05 52 13 00-0021	LF		1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	70.36	12.21
			<i>For Schedule 80 Handrail, Add</i>	6.17	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-10.10	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-11.48	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-15.16	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-17.91	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	13.38	
			<i>For Aluminum, Satin Finish, Add</i>	19.29	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	29.85	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	34.45	
			<i>For Galvanizing, Add</i>	18.37	
			<i>For Wrought Iron, Add</i>	7.04	
			<i>For Solid Steel Rails, Add</i>	14.07	
			<i>For 304 Stainless Steel, Add</i>	146.98	
			<i>For 316 Stainless Steel, Add</i>	165.35	
			<i>For 2" Wheel Guard, Add</i>	4.36	
			<i>For 4" High Kick Plate, Add</i>	5.74	
			<i>For 6" High Kick Plate, Add</i>	9.19	
			<i>For Curved Rail, Add</i>	34.89	
			<i>For Mounting On Stairs, Add</i>	8.26	
			<i>For Mounting On Slopes, Add</i>	2.44	
			<i>For Post Base Flange With Screws, Add Per Post</i>	19.94	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	30.16	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	29.07	
			<i>For Nylon Coating, Add</i>	6.89	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0022 LF 1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	76.08	12.21
For Schedule 80 Handrail, Add	8.54	
For 11 Gauge A513 Steel Tubing, Deduct	-11.36	
For 12 Gauge A513 Steel Tubing, Deduct	-12.91	
For 14 Gauge A513 Steel Tubing, Deduct	-17.04	
For 16 Gauge A513 Steel Tubing, Deduct	-20.14	
For Additional Off Set Handrail, ADA Attachment, Add	13.38	
For Aluminum, Satin Finish, Add	21.69	
For Aluminum, Clear Anodized Finish, Add	33.57	
For Aluminum, Dark Anodized Finish, Add	38.74	
For Galvanizing, Add	20.66	
For Wrought Iron, Add	7.61	
For Solid Steel Rails, Add	15.22	
For 304 Stainless Steel, Add	165.28	
For 316 Stainless Steel, Add	185.94	
For 2" Wheel Guard, Add	4.91	
For 4" High Kick Plate, Add	6.46	
For 6" High Kick Plate, Add	10.33	
For Curved Rail, Add	38.32	
For Mounting On Stairs, Add	8.83	
For Mounting On Slopes, Add	2.44	
For Post Base Flange With Screws, Add Per Post	19.94	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.16	
For Custom Design Or Shapes (Square Tops, etc), Add	31.93	
For Nylon Coating, Add	7.75	
05 52 13 00-0023 LF 1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	81.80	12.21
For Schedule 80 Handrail, Add	8.54	
For 11 Gauge A513 Steel Tubing, Deduct	-12.62	
For 12 Gauge A513 Steel Tubing, Deduct	-14.34	
For 14 Gauge A513 Steel Tubing, Deduct	-18.93	
For 16 Gauge A513 Steel Tubing, Deduct	-22.37	
For Additional Off Set Handrail, ADA Attachment, Add	13.38	
For Aluminum, Satin Finish, Add	24.10	
For Aluminum, Clear Anodized Finish, Add	37.29	
For Aluminum, Dark Anodized Finish, Add	43.03	
For Galvanizing, Add	22.95	
For Wrought Iron, Add	8.18	
For Solid Steel Rails, Add	16.36	
For 304 Stainless Steel, Add	183.58	
For 316 Stainless Steel, Add	206.53	
For 2" Wheel Guard, Add	5.45	
For 4" High Kick Plate, Add	7.17	
For 6" High Kick Plate, Add	11.47	
For Curved Rail, Add	41.75	
For Mounting On Stairs, Add	9.40	
For Mounting On Slopes, Add	2.44	
For Post Base Flange With Screws, Add Per Post	19.94	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.16	
For Custom Design Or Shapes (Square Tops, etc), Add	34.79	
For Nylon Coating, Add	8.61	
05 52 13 00-0024 LF 2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	94.55	12.21
For Schedule 80 Handrail, Add	9.51	
For 11 Gauge A513 Steel Tubing, Deduct	-15.43	
For 12 Gauge A513 Steel Tubing, Deduct	-17.53	
For 14 Gauge A513 Steel Tubing, Deduct	-23.14	
For 16 Gauge A513 Steel Tubing, Deduct	-27.35	
For Additional Off Set Handrail, ADA Attachment, Add	13.38	
For Aluminum, Satin Finish, Add	29.45	
For Aluminum, Clear Anodized Finish, Add	45.58	
For Aluminum, Dark Anodized Finish, Add	52.59	
For Galvanizing, Add	28.05	
For Wrought Iron, Add	9.46	
For Solid Steel Rails, Add	18.91	
For 304 Stainless Steel, Add	224.38	
For 316 Stainless Steel, Add	252.43	
For 2" Wheel Guard, Add	6.66	
For 4" High Kick Plate, Add	8.77	
For 6" High Kick Plate, Add	14.02	
For Curved Rail, Add	49.40	
For Mounting On Stairs, Add	10.68	
For Mounting On Slopes, Add	2.44	
For Post Base Flange With Screws, Add Per Post	19.94	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.16	
For Custom Design Or Shapes (Square Tops, etc), Add	41.17	
For Nylon Coating, Add	10.52	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0025	LF		2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	109.48	12.21
			<i>For Schedule 80 Handrail, Add</i>	10.48	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-18.71	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-21.26	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-28.07	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-33.17	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	13.38	
			<i>For Aluminum, Satin Finish, Add</i>	35.72	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	55.28	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	63.79	
			<i>For Galvanizing, Add</i>	34.02	
			<i>For Wrought Iron, Add</i>	10.95	
			<i>For Solid Steel Rails, Add</i>	21.90	
			<i>For 304 Stainless Steel, Add</i>	272.16	
			<i>For 316 Stainless Steel, Add</i>	306.18	
			<i>For 2" Wheel Guard, Add</i>	8.08	
			<i>For 4" High Kick Plate, Add</i>	10.63	
			<i>For 6" High Kick Plate, Add</i>	17.01	
			<i>For Curved Rail, Add</i>	58.36	
			<i>For Mounting On Stairs, Add</i>	12.17	
			<i>For Mounting On Slopes, Add</i>	2.44	
			<i>For Post Base Flange With Screws, Add Per Post</i>	19.94	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	30.16	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	48.63	
			<i>For Nylon Coating, Add</i>	12.76	
05 52 13 00-0026			Railing Infill Panels <small>(05 52 13)</small>		
			Note: Includes field welds and touch-up of welds.		
05 52 13 00-0027			Wire Mesh Or Welded Wire Mesh, Railing Infill Panels <small>(05 52 13 00-0026)</small>		
			Note: Square weave or square welded wire mesh.		
05 52 13 00-0028	SF		Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	8.25	
05 52 13 00-0029	SF		Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	8.76	
05 52 13 00-0030	SF		Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	9.21	
05 52 13 00-0031	SF		Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel.....	15.57	
05 52 13 00-0032			Perforated Metal, Railing Infill Panels <small>(05 52 13 00-0026)</small>		
05 52 13 00-0033	SF		Powder Coated Steel, Perforated Metal, Railing Infill Panel	8.09	
05 52 13 00-0034	SF		Galvanized Steel, Perforated Metal, Railing Infill Panel	8.36	
05 52 13 00-0035	SF		Aluminum, Perforated Metal, Railing Infill Panel	8.95	
05 52 13 00-0036	SF		Stainless Steel, Perforated Metal, Railing Infill Panel	17.97	
05 52 13 00-0037			Expanded Metal, Railing Infill Panels <small>(05 52 13 00-0026)</small>		
05 52 13 00-0038	SF		Powder Coated Steel, Expanded Metal, Railing Infill Panel.....	3.65	
05 52 13 00-0039	SF		Galvanized Steel, Expanded Metal, Railing Infill Panel.....	7.46	
05 52 13 00-0040	SF		Aluminum, Expanded Metal, Railing Infill Panel.....	9.79	
05 52 13 00-0041	SF		Stainless Steel, Expanded Metal, Railing Infill Panel.....	14.60	
05 52 13 00-0042			Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13)</small>		
			Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0043	LF		1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	33.13	5.24
			<i>For Schedule 80 Handrail, Add</i>	1.81	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.41	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.01	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.61	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-7.82	
			<i>For Stainless Steel, Add</i>	40.08	
			<i>For Aluminum, Satin Finish, Add</i>	8.42	
			<i>For Curved Rail, Add</i>	9.94	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	13.03	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	15.03	
			<i>For Galvanized Finish, Add</i>	6.01	
05 52 13 00-0044	LF		1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	33.78	5.24
			<i>For Schedule 80 Handrail, Add</i>	2.05	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.55	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.17	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.83	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-8.07	
			<i>For Stainless Steel, Add</i>	41.38	
			<i>For Aluminum, Satin Finish, Add</i>	8.69	
			<i>For Curved Rail, Add</i>	10.13	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	13.45	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	15.52	
			<i>For Galvanized Finish, Add</i>	6.21	



	Metals	05
	Metal Fabrications	05 50
	Metal Railings	05 52

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0045 LF 1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	34.42	5.24
For Schedule 80 Handrail, Add	5.22	
For 11 Gauge A513 Steel Tubing, Deduct	-4.69	
For 12 Gauge A513 Steel Tubing, Deduct	-5.33	
For 14 Gauge A513 Steel Tubing, Deduct	-7.04	
For 16 Gauge A513 Steel Tubing, Deduct	-8.32	
For Stainless Steel, Add	42.66	
For Aluminum, Satin Finish, Add	8.96	
For Curved Rail, Add	10.33	
For Aluminum, Clear Anodized Finish, Add	13.86	
For Aluminum, Dark Anodized Finish, Add	16.00	
For Galvanized Finish, Add	6.40	
05 52 13 00-0046 LF 2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	41.86	5.24
For Schedule 80 Handrail, Add	2.48	
For 11 Gauge A513 Steel Tubing, Deduct	-6.33	
For 12 Gauge A513 Steel Tubing, Deduct	-7.19	
For 14 Gauge A513 Steel Tubing, Deduct	-9.49	
For 16 Gauge A513 Steel Tubing, Deduct	-11.22	
For Stainless Steel, Add	57.54	
For Aluminum, Satin Finish, Add	12.08	
For Curved Rail, Add	12.56	
For Aluminum, Clear Anodized Finish, Add	18.70	
For Aluminum, Dark Anodized Finish, Add	21.58	
For Galvanized Finish, Add	8.63	
05 52 13 00-0047 LF 2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	48.00	5.24
For Schedule 80 Handrail, Add	2.67	
For 11 Gauge A513 Steel Tubing, Deduct	-7.68	
For 12 Gauge A513 Steel Tubing, Deduct	-8.73	
For 14 Gauge A513 Steel Tubing, Deduct	-11.52	
For 16 Gauge A513 Steel Tubing, Deduct	-13.61	
For Stainless Steel, Add	69.82	
For Aluminum, Satin Finish, Add	14.66	
For Curved Rail, Add	14.40	
For Aluminum, Clear Anodized Finish, Add	22.69	
For Aluminum, Dark Anodized Finish, Add	26.18	
For Galvanized Finish, Add	10.47	
05 52 13 00-0048 Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13)</small>		
Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0049 LF 1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	40.73	5.50
For Schedule 80 Handrail, Add	1.81	
For 11 Gauge A513 Steel Tubing, Deduct	-6.08	
For 12 Gauge A513 Steel Tubing, Deduct	-6.91	
For 14 Gauge A513 Steel Tubing, Deduct	-9.12	
For 16 Gauge A513 Steel Tubing, Deduct	-10.78	
For Stainless Steel, Add	55.28	
For Aluminum, Satin Finish, Add	11.61	
For Curved Rail, Add	12.22	
For Aluminum, Clear Anodized Finish, Add	17.97	
For Aluminum, Dark Anodized Finish, Add	20.73	
For Galvanized Finish, Add	8.29	
05 52 13 00-0050 LF 1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	41.63	5.50
For Schedule 80 Handrail, Add	2.05	
For 11 Gauge A513 Steel Tubing, Deduct	-6.28	
For 12 Gauge A513 Steel Tubing, Deduct	-7.14	
For 14 Gauge A513 Steel Tubing, Deduct	-9.42	
For 16 Gauge A513 Steel Tubing, Deduct	-11.13	
For Stainless Steel, Add	57.08	
For Aluminum, Satin Finish, Add	11.99	
For Curved Rail, Add	12.49	
For Aluminum, Clear Anodized Finish, Add	18.55	
For Aluminum, Dark Anodized Finish, Add	21.41	
For Galvanized Finish, Add	8.56	
05 52 13 00-0051 LF 1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	42.31	5.50
For Schedule 80 Handrail, Add	5.22	
For 11 Gauge A513 Steel Tubing, Deduct	-6.43	
For 12 Gauge A513 Steel Tubing, Deduct	-7.31	
For 14 Gauge A513 Steel Tubing, Deduct	-9.64	
For 16 Gauge A513 Steel Tubing, Deduct	-11.40	
For Stainless Steel, Add	58.44	
For Aluminum, Satin Finish, Add	12.27	
For Curved Rail, Add	12.69	
For Aluminum, Clear Anodized Finish, Add	18.99	
For Aluminum, Dark Anodized Finish, Add	21.92	
For Galvanized Finish, Add	8.77	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0052	LF		2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	52.69	5.50
			<i>For Schedule 80 Handrail, Add</i>	2.48	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-8.71	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-9.90	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-13.07	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-15.44	
			<i>For Stainless Steel, Add</i>	79.20	
			<i>For Aluminum, Satin Finish, Add</i>	16.63	
			<i>For Curved Rail, Add</i>	15.81	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	25.74	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	29.70	
			<i>For Galvanized Finish, Add</i>	11.88	
05 52 13 00-0053	LF		2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	59.47	5.50
			<i>For Schedule 80 Handrail, Add</i>	2.67	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-10.20	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-11.60	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-15.31	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-18.09	
			<i>For Stainless Steel, Add</i>	92.76	
			<i>For Aluminum, Satin Finish, Add</i>	19.48	
			<i>For Curved Rail, Add</i>	17.84	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	30.15	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	34.79	
			<i>For Galvanized Finish, Add</i>	13.91	
05 52 13 00-0054			Remove/Reinstall Pipe Railing <small>(05 52 13)</small>		
05 52 13 00-0055	LF		Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing	19.63	
05 52 13 00-0056	LF		Removal And Reinstallation Of Floor Mounted Pipe Railing	25.70	
05 52 13 00-0057	EA		Install New Galvanized Steel Pipe Railing Bracket	44.32	
			<i>For Stainless Steel, Add</i>	36.30	
05 53			Metal Gratings <small>(05 50)</small>		
05 53 13			Bar Gratings <small>(05 53)</small>		
05 53 13 00-0001			Welded Grating <small>(05 53 13)</small>		
			Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel.		
05 53 13 00-0002			Steel, Welded Grating <small>(05 53 13 00-0001)</small>		
			Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0003	SF		3/4" x 1/8" Steel, Welded Grating	7.11	0.96
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	0.88	
			<i>For 304 Stainless Steel, Add</i>	16.66	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			<i>For Bearing Bars At 15/16" O.C., Add</i>	1.52	
			<i>For Crossbars At 2" O.C., Add</i>	0.56	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.42	
05 53 13 00-0004	SF		3/4" x 3/16" Steel, Welded Grating	9.25	0.96
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	1.25	
			<i>For 304 Stainless Steel, Add</i>	23.53	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			<i>For Bearing Bars At 15/16" O.C., Add</i>	2.14	
			<i>For Crossbars At 2" O.C., Add</i>	0.79	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.47	
05 53 13 00-0005	SF		1" x 1/8" Steel, Welded Grating	8.49	0.96
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	1.12	
			<i>For 304 Stainless Steel, Add</i>	21.09	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			<i>For Bearing Bars At 15/16" O.C., Add</i>	1.92	
			<i>For Crossbars At 2" O.C., Add</i>	0.71	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.45	
05 53 13 00-0006	SF		1" x 3/16" Steel, Welded Grating	11.40	0.96
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	1.61	
			<i>For 304 Stainless Steel, Add</i>	30.43	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			<i>For Bearing Bars At 15/16" O.C., Add</i>	2.77	
			<i>For Crossbars At 2" O.C., Add</i>	1.02	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.52	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0007 SF 1" x 1/4" Steel, Welded Grating	14.32	0.96
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.11	
For 304 Stainless Steel, Add	39.80	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	3.62	
For Crossbars At 2" O.C., Add	1.34	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.60	
05 53 13 00-0008 SF 1-1/4" x 1/8" Steel, Welded Grating	9.88	0.96
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.35	
For 304 Stainless Steel, Add	25.55	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	2.32	
For Crossbars At 2" O.C., Add	0.86	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.49	
05 53 13 00-0009 SF 1-1/4" x 3/16" Steel, Welded Grating	13.43	0.96
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.96	
For 304 Stainless Steel, Add	36.95	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	3.36	
For Crossbars At 2" O.C., Add	1.24	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.57	
05 53 13 00-0010 SF 1-1/2" x 1/8" Steel, Welded Grating	11.28	0.96
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.59	
For 304 Stainless Steel, Add	30.05	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	2.73	
For Crossbars At 2" O.C., Add	1.01	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.52	
05 53 13 00-0011 SF 1-1/2" x 3/16" Steel, Welded Grating	15.99	1.18
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.32	
For 304 Stainless Steel, Add	43.78	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	3.98	
For Crossbars At 2" O.C., Add	1.47	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.92	
05 53 13 00-0012 SF 1-1/2" x 1/4" Steel, Welded Grating	20.42	1.18
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.07	
For 304 Stainless Steel, Add	58.00	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	5.28	
For Crossbars At 2" O.C., Add	1.95	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.03	
05 53 13 00-0013 SF 1-3/4" x 3/16" Steel, Welded Grating	18.15	1.18
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.69	
For 304 Stainless Steel, Add	50.72	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	4.61	
For Crossbars At 2" O.C., Add	1.71	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.97	
05 53 13 00-0014 SF 2" x 3/16" Steel, Welded Grating	20.18	1.18
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.03	
For 304 Stainless Steel, Add	57.23	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	5.21	
For Crossbars At 2" O.C., Add	1.93	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.02	
05 53 13 00-0015 SF 2-1/4" x 3/16" Steel, Welded Grating	22.32	1.18
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.39	
For 304 Stainless Steel, Add	64.10	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	5.83	
For Crossbars At 2" O.C., Add	2.16	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0016 SF 2-1/2" x 3/16" Steel, Welded Grating	24.35	1.18
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.74	
For 304 Stainless Steel, Add	70.62	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	6.42	
For Crossbars At 2" O.C., Add	2.38	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.12	
05 53 13 00-0017 Pressure Locked Grating <small>(05 53 13)</small>		
Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.		
05 53 13 00-0018 Steel, Pressure Locked Grating <small>(05 53 13 00-0017)</small>		
Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0019 SF 3/4" x 1/8" Steel, Pressure Locked Grating	12.74	0.96
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.77	
For 304 Stainless Steel, Add	20.24	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	3.16	
For Crossbars At 2" O.C., Add	1.17	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.56	
05 53 13 00-0020 SF 3/4" x 3/16" Steel, Pressure Locked Grating	15.50	0.96
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.23	
For 304 Stainless Steel, Add	25.41	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	3.97	
For Crossbars At 2" O.C., Add	1.47	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.63	
05 53 13 00-0021 SF 1" x 1/8" Steel, Pressure Locked Grating	13.92	0.96
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.97	
For 304 Stainless Steel, Add	22.45	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	3.50	
For Crossbars At 2" O.C., Add	1.30	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.59	
05 53 13 00-0022 SF 1" x 3/16" Steel, Pressure Locked Grating	18.66	0.96
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.75	
For 304 Stainless Steel, Add	31.32	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 7/16" O.C., Add	24.27	
For Bearing Bars At 15/16" O.C., Add	4.89	
For Crossbars At 2" O.C., Add	1.81	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.70	
05 53 13 00-0023 SF 1-1/4" x 1/8" Steel, Pressure Locked Grating	15.50	0.96
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.23	
For 304 Stainless Steel, Add	25.41	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	3.97	
For Crossbars At 2" O.C., Add	1.47	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.63	
05 53 13 00-0024 SF 1-1/4" x 3/16" Steel, Pressure Locked Grating	20.85	0.96
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.10	
For 304 Stainless Steel, Add	35.42	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	5.53	
For Crossbars At 2" O.C., Add	2.04	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.76	
05 53 13 00-0025 SF 1-1/2" x 1/8" Steel, Pressure Locked Grating	17.15	0.96
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.50	
For 304 Stainless Steel, Add	28.50	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	4.45	
For Crossbars At 2" O.C., Add	1.64	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.67	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0026 SF 1-1/2" x 3/16" Steel, Pressure Locked Grating.....	23.58	1.18
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.48	
For 304 Stainless Steel, Add	39.72	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 7/16" O.C., Add	30.78	
For Bearing Bars At 15/16" O.C., Add	6.20	
For Crossbars At 2" O.C., Add	2.29	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.11	
05 53 13 00-0027 SF 1-3/4" x 3/16" Steel, Pressure Locked Grating.....	25.90	1.18
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.86	
For 304 Stainless Steel, Add	44.06	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	6.88	
For Crossbars At 2" O.C., Add	2.54	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.16	
05 53 13 00-0028 SF 2" x 3/16" Steel, Pressure Locked Grating.....	27.79	1.18
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.17	
For 304 Stainless Steel, Add	47.60	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	7.43	
For Crossbars At 2" O.C., Add	2.75	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.21	
05 53 13 00-0029 SF 2-1/4" x 3/16" Steel, Pressure Locked Grating.....	29.60	1.18
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.47	
For 304 Stainless Steel, Add	50.98	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	7.96	
For Crossbars At 2" O.C., Add	2.94	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.26	
05 53 13 00-0030 SF 2-1/2" x 3/16" Steel, Pressure Locked Grating.....	31.16	1.18
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.72	
For 304 Stainless Steel, Add	53.90	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	8.41	
For Crossbars At 2" O.C., Add	3.11	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.29	
05 53 13 00-0031 Aluminum, Type 6063, Pressure Locked Grating (05 53 13 00-0017)		
Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted in place, and in all sizes.		
05 53 13 00-0032 SF 3/4" x 1/8" Aluminum, Pressure Locked Grating.....	13.23	0.96
For Bearing Bars At 15/16" O.C., Add	3.30	
For Crossbars At 2" O.C., Add	1.22	
For Set In Place Without Bolting, Deduct	-1.57	
For Powder Coating, Add	1.70	
05 53 13 00-0033 SF 3/4" x 3/16" Aluminum, Pressure Locked Grating.....	17.87	0.96
For Bearing Bars At 15/16" O.C., Add	4.66	
For Crossbars At 2" O.C., Add	1.72	
For Set In Place Without Bolting, Deduct	-1.69	
For Powder Coating, Add	2.39	
05 53 13 00-0034 SF 1" x 1/8" Aluminum, Pressure Locked Grating.....	16.87	0.96
For Bearing Bars At 15/16" O.C., Add	4.37	
For Crossbars At 2" O.C., Add	1.61	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.66	
For Powder Coating, Add	2.24	
05 53 13 00-0035 SF 1" x 3/16" Aluminum, Pressure Locked Grating.....	22.87	0.96
For Bearing Bars At 7/16" O.C., Add	30.38	
For Bearing Bars At 15/16" O.C., Add	6.12	
For Crossbars At 2" O.C., Add	2.26	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.81	
For Powder Coating, Add	3.14	
05 53 13 00-0036 SF 1-1/4" x 1/8" Aluminum, Pressure Locked Grating.....	19.51	0.96
For Bearing Bars At 15/16" O.C., Add	5.14	
For Crossbars At 2" O.C., Add	1.90	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.73	
For Powder Coating, Add	2.64	
05 53 13 00-0037 SF 1-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	26.05	0.96
For Bearing Bars At 15/16" O.C., Add	7.05	
For Crossbars At 2" O.C., Add	2.61	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.89	
For Powder Coating, Add	3.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0038 SF 1-1/2" x 1/8" Aluminum, Pressure Locked Grating.....	21.99	0.96
For Bearing Bars At 15/16" O.C., Add	5.86	
For Crossbars At 2" O.C., Add	2.17	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.79	
For Powder Coating, Add	3.01	
05 53 13 00-0039 SF 1-1/2" x 3/16" Aluminum, Pressure Locked Grating	29.32	0.96
For Bearing Bars At 7/16" O.C., Add	39.73	
For Bearing Bars At 15/16" O.C., Add	8.00	
For Crossbars At 2" O.C., Add	2.96	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.97	
For Powder Coating, Add	4.11	
05 53 13 00-0040 SF 1-3/4" x 3/16" Aluminum, Pressure Locked Grating	32.46	0.96
For Bearing Bars At 15/16" O.C., Add	8.92	
For Crossbars At 2" O.C., Add	3.30	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.05	
For Powder Coating, Add	4.58	
05 53 13 00-0041 SF 2" x 3/16" Aluminum, Pressure Locked Grating	36.18	0.96
For Bearing Bars At 15/16" O.C., Add	10.00	
For Crossbars At 2" O.C., Add	3.70	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.14	
For Powder Coating, Add	5.14	
05 53 13 00-0042 SF 2-1/4" x 3/16" Aluminum, Pressure Locked Grating	39.10	0.96
For Bearing Bars At 15/16" O.C., Add	10.86	
For Crossbars At 2" O.C., Add	4.02	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.22	
For Powder Coating, Add	5.58	
05 53 13 00-0043 SF 2-1/2" x 3/16" Aluminum, Pressure Locked Grating	42.58	0.96
For Bearing Bars At 15/16" O.C., Add	11.87	
For Crossbars At 2" O.C., Add	4.39	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.30	
For Powder Coating, Add	6.10	
05 53 13 00-0044 Swage Locked Grating <small>(05 53 13)</small>		
Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.		
05 53 13 00-0045 Steel, Swage Locked Grating <small>(05 53 13 00-0044)</small>		
Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0046 SF 1" x 3/16" Steel, Swaged Grating.....	20.34	0.96
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.69	
For 304 Stainless Steel, Add	30.54	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	11.79	
For Crossbars At 2" O.C., Add	1.47	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.75	
05 53 13 00-0047 SF 1-1/4" x 3/16" Steel, Swaged Grating.....	22.62	0.96
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.90	
For 304 Stainless Steel, Add	34.32	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	13.25	
For Crossbars At 2" O.C., Add	1.66	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.80	
05 53 13 00-0048 SF 1-1/2" x 3/16" Steel, Swaged Grating.....	24.82	1.18
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.07	
For 304 Stainless Steel, Add	37.26	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	14.38	
For Crossbars At 2" O.C., Add	1.80	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.14	
05 53 13 00-0049 SF 1-3/4" x 3/16" Steel, Swaged Grating.....	28.31	1.18
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.39	
For 304 Stainless Steel, Add	43.04	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	16.61	
For Crossbars At 2" O.C., Add	2.08	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.22	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0050 SF 2" x 3/16" Steel, Swaged Grating.....	31.81	1.18
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.71	
For 304 Stainless Steel, Add	48.84	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	18.85	
For Crossbars At 2" O.C., Add	2.36	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.31	
05 53 13 00-0051 SF 2-1/4" x 3/16" Steel, Swaged Grating	35.29	1.18
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.03	
For 304 Stainless Steel, Add	54.61	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	21.08	
For Crossbars At 2" O.C., Add	2.64	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.40	
05 53 13 00-0052 SF 2-1/2" x 3/16" Steel, Swaged Grating	38.79	1.18
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.35	
For 304 Stainless Steel, Add	60.42	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	23.32	
For Crossbars At 2" O.C., Add	2.92	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.49	
05 53 13 00-0053 Aluminum Grating, Type 6063, Swage Locked <small>(05 53 13 00-0044)</small>		
Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted in place, and in all sizes.		
05 53 13 00-0054 SF 1" x 1/8" Aluminum, Swaged Grating.....	15.59	0.96
For Bearing Bars At 15/16" O.C., Add	8.75	
For Crossbars At 2" O.C., Add	1.09	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.63	
For Powder Coating, Add	2.05	
05 53 13 00-0055 SF 1" x 3/16" Aluminum, Swaged Grating.....	20.17	0.96
For Bearing Bars At 15/16" O.C., Add	11.68	
For Crossbars At 2" O.C., Add	1.46	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.74	
For Powder Coating, Add	2.74	
05 53 13 00-0056 SF 1-1/4" x 1/8" Aluminum, Swaged Grating.....	17.65	0.96
For Bearing Bars At 15/16" O.C., Add	10.07	
For Crossbars At 2" O.C., Add	1.26	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.68	
For Powder Coating, Add	2.36	
05 53 13 00-0057 SF 1-1/4" x 3/16" Aluminum, Swaged Grating.....	23.25	0.96
For Bearing Bars At 15/16" O.C., Add	13.65	
For Crossbars At 2" O.C., Add	1.71	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.82	
For Powder Coating, Add	3.20	
05 53 13 00-0058 SF 1-1/2" x 1/8" Aluminum, Swaged Grating.....	20.09	0.96
For Bearing Bars At 15/16" O.C., Add	11.63	
For Crossbars At 2" O.C., Add	1.45	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.74	
For Powder Coating, Add	2.73	
05 53 13 00-0059 SF 1-1/2" x 3/16" Aluminum, Swaged Grating.....	26.54	0.96
For Bearing Bars At 15/16" O.C., Add	15.76	
For Crossbars At 2" O.C., Add	1.97	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.90	
For Powder Coating, Add	3.69	
05 53 13 00-0060 SF 1-3/4" x 3/16" Aluminum, Swaged Grating.....	30.34	0.96
For Bearing Bars At 15/16" O.C., Add	18.19	
For Crossbars At 2" O.C., Add	2.27	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.00	
For Powder Coating, Add	4.26	
05 53 13 00-0061 SF 2" x 3/16" Aluminum, Swaged Grating.....	34.12	0.96
For Bearing Bars At 15/16" O.C., Add	20.61	
For Crossbars At 2" O.C., Add	2.58	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.09	
For Powder Coating, Add	4.83	
05 53 13 00-0062 SF 2-1/4" x 3/16" Aluminum, Swaged Grating.....	37.92	0.96
For Bearing Bars At 15/16" O.C., Add	23.04	
For Crossbars At 2" O.C., Add	2.88	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.19	
For Powder Coating, Add	5.40	

05	05 Metals
	05 50 Metal Fabrications
	05 53 Metal Gratings



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
05 53 13 00-0063	SF 2-1/2" x 3/16" Aluminum, Swaged Grating..... <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting, Deduct</i> <i>For Powder Coating, Add</i>	41.70 25.46 3.18 0.16 -2.28 5.97		0.96	
05 53 13 00-0064	Riveted Grating <small>(05 53 13)</small> Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.				
05 53 13 00-0065	Steel, Riveted Grating <small>(05 53 13 00-0064)</small> Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.				
05 53 13 00-0066	SF 3/4" x 1/8", 7.0 LB/SF, Steel, Riveted Grating..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	37.96 0.22 1.73 30.96 12.43 -2.19		0.96	
05 53 13 00-0067	SF 3/4" x 3/16", 8.5 LB/SF, Steel, Riveted Grating..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	44.55 0.22 2.05 36.62 14.71 -2.35		0.96	
05 53 13 00-0068	SF 1" x 1/8", 8.0 LB/SF, Steel, Riveted Grating..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	40.99 0.22 1.88 33.56 13.48 0.16 -2.26		0.96	
05 53 13 00-0069	SF 1" x 3/16", 9.5 LB/SF, Steel, Riveted Grating..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	47.07 0.22 2.17 38.78 15.58 0.16 -2.42		0.96	
05 53 13 00-0070	SF 1-1/4" x 1/8", 9.0 LB/SF, Steel, Riveted Grating..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	43.51 0.22 2.00 35.73 14.35 0.16 -2.33		0.96	
05 53 13 00-0071	SF 1-1/4" x 3/16", 11.1 LB/SF, Steel, Riveted Grating..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	51.75 0.22 2.39 42.80 17.19 0.16 -2.53		0.96	
05 53 13 00-0072	SF 1-1/2" x 1/8", 10.1 LB/SF, Steel, Riveted Grating..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	46.36 0.22 2.11 37.80 15.18 0.16 -2.67		1.18	
05 53 13 00-0073	SF 1-1/2" x 3/16", 12.5 LB/SF, Steel, Riveted Grating..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	55.17 0.22 2.54 45.37 18.22 0.16 -2.90		1.18	
05 53 13 00-0074	SF 1-3/4" x 3/16", 14.0 LB/SF, Steel, Riveted Grating..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	59.66 0.22 2.75 49.23 19.77 0.16 -3.01		1.18	
05 53 13 00-0075	SF 2" x 3/16", 17.0 LB/SF, Steel, Riveted Grating..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	69.70 0.22 3.23 57.85 23.24 0.16 -3.26		1.18	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 53	13 00-0076	SF	2-1/4" x 3/16", 18.5 LB/SF, Steel, Riveted Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	73.20 0.22 3.40 60.86 24.44 0.16 -3.35	1.18
	05 53	13 00-0077	SF	2-1/2" x 3/16", 20.0 LB/SF, Steel, Riveted Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	76.31 0.22 3.55 63.53 25.52 0.16 -3.42	1.18
	05 53	13 00-0078		Aluminum, Riveted Grating (05 53 13 00-0064) Note: 1" clear opening, bolted in place and in all sizes.		
	05 53	13 00-0079	SF	3/4" x 1/8", 2.4 LB/SF, Aluminum, Riveted Grating For 5/8" Clear Opening, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct	33.14 10.77 4.68 -2.07	0.96
	05 53	13 00-0080	SF	3/4" x 3/16", 2.9 LB/SF, Aluminum, Riveted Grating For 5/8" Clear Opening, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct	39.32 12.90 5.61 -2.22	0.96
	05 53	13 00-0081	SF	1" x 1/8", 2.7 LB/SF, Aluminum, Riveted Grating For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct	36.44 11.91 0.16 5.18 -2.15	0.96
	05 53	13 00-0082	SF	1" x 3/16", 3.2 LB/SF, Aluminum, Riveted Grating For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct	42.48 13.99 0.16 6.08 -2.30	0.96
	05 53	13 00-0083	SF	1-1/4" x 1/8", 3.1 LB/SF, Aluminum, Riveted Grating For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct	40.86 13.43 0.16 5.84 -2.26	0.96
	05 53	13 00-0084	SF	1-1/4" x 3/16", 3.8 LB/SF, Aluminum, Riveted Grating For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct	49.23 16.32 0.16 7.10 -2.47	0.96
	05 53	13 00-0085	SF	1-1/2" x 1/8", 3.4 LB/SF, Aluminum, Riveted Grating For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct	43.87 14.47 0.16 6.29 -2.34	0.96
	05 53	13 00-0086	SF	1-1/2" x 3/16", 4.3 LB/SF, Aluminum, Riveted Grating For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct	54.51 18.14 0.16 7.89 -2.60	0.96
	05 53	13 00-0087	SF	1-3/4" x 3/16", 4.8 LB/SF, Aluminum, Riveted Grating For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct	60.08 20.07 0.16 8.72 -2.74	0.96
	05 53	13 00-0088	SF	2" x 3/16", 5.8 LB/SF, Aluminum, Riveted Grating For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct	71.54 24.02 0.16 10.44 -3.03	0.96
	05 53	13 00-0089	SF	2-1/4" x 3/16", 6.4 LB/SF, Aluminum, Riveted Grating For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct	78.03 26.26 0.16 11.42 -3.19	0.96
	05 53	13 00-0090	SF	2-1/2" x 3/16", 7.2 LB/SF, Aluminum, Riveted Grating For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct	86.75 29.27 0.16 12.72 -3.41	0.96
	05 53	16		Plank Gratings (05 53)		
	05 53	16 00-0001		Grate-Lock Steel Plank Grating (05 53 16) Note: Smooth or traction grip surface.		
	05 53	16 00-0002	SF	1-1/2" Height, 18 Gauge Steel Grate-Lock Plank Grating For Stair Tread Application, Add	10.23 1.25	0.74
	05 53	16 00-0003	SF	2-1/2" Height, 18 Gauge Steel Grate-Lock Plank Grating For Stair Tread Application, Add	11.00 1.37	0.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 16 00-0004 SF 3" Height, 18 Gauge Steel Grate-Lock Plank Grating.....	11.62	1.01
For Stair Tread Application, Add	1.46	
05 53 16 00-0005 SF 4" Height, 18 Gauge Steel Grate-Lock Plank Grating.....	12.69	1.09
For Stair Tread Application, Add	1.60	
05 53 16 00-0006 SF 1-1/2" Height, 16 Gauge Steel Grate-Lock Plank Grating.....	12.41	0.83
For Stair Tread Application, Add	1.49	
05 53 16 00-0007 SF 2-1/2" Height, 16 Gauge Steel Grate-Lock Plank Grating.....	13.28	1.01
For Stair Tread Application, Add	1.63	
05 53 16 00-0008 SF 1-1/2" Height, 14 Gauge Steel Grate-Lock Plank Grating.....	15.20	0.96
For Stair Tread Application, Add	1.81	
05 53 16 00-0009 SF 2-1/2" Height, 14 Gauge Steel Grate-Lock Plank Grating.....	16.28	1.18
For Stair Tread Application, Add	1.98	
05 53 16 00-0010 SF 3" Height, 14 Gauge Steel Grate-Lock Plank Grating.....	17.57	1.48
For Stair Tread Application, Add	2.20	
05 53 16 00-0011 SF 4" Height, 14 Gauge Steel Grate-Lock Plank Grating.....	19.40	1.65
For Stair Tread Application, Add	2.44	
05 54 Metal Floor Plates (05 50)		
05 54 00 00-0001 Steel Floor Plates (05 54)		
05 54 00 00-0002 SF 16 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	12.07	1.13
05 54 00 00-0003 SF 14 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	13.74	1.13
05 54 00 00-0004 SF 12 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	17.10	1.13
05 54 00 00-0005 SF 1/8" Steel Raised Or Diamond Pattern Floor Plates.....	22.82	1.22
05 54 00 00-0006 SF 1/4" Steel Raised Or Diamond Pattern Floor Plates.....	28.84	1.30
05 54 00 00-0007 Aluminum Alloy Floor Plates (05 54)		
05 54 00 00-0008 SF 0.125" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....	17.21	0.96
For Powder Coating, Add	2.29	
05 54 00 00-0009 SF 0.188" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....	19.75	1.13
For Powder Coating, Add	2.64	
05 54 00 00-0010 SF 0.25" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....	22.29	1.22
For Powder Coating, Add	2.98	
05 54 00 00-0011 Type 304 Stainless Steel Floor Plates (05 54)		
05 54 00 00-0012 SF 1/8" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	27.01	1.30
05 54 00 00-0013 SF 3/16" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	32.28	1.48
05 54 00 00-0014 SF 1/4" Type 304 Stainless Raised Or Diamond Pattern Steel Floor Plate.....	41.78	1.75
05 55 Metal Stair Treads And Nosings (05 50)		
05 55 13 Metal Stair Treads (05 55)		
05 55 13 00-0001 Abrasive Cast Aluminum Stair Treads (05 55 13)		
Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.		
05 55 13 00-0002 LF 8" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	43.10	5.31
For 3/8" Thick, Add	8.65	
05 55 13 00-0003 LF 9" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	47.17	5.31
For 3/8" Thick, Add	9.67	
05 55 13 00-0004 LF 10" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	51.22	5.31
For 3/8" Thick, Add	10.68	
05 55 13 00-0005 LF 11" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	55.31	5.31
For 3/8" Thick, Add	11.70	
05 55 13 00-0006 LF 12" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	59.35	5.31
For 3/8" Thick, Add	12.71	
05 55 13 00-0007 Abrasive Cast Iron Stair Treads (05 55 13)		
Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.		
05 55 13 00-0008 LF 8" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	58.88	5.31
05 55 13 00-0009 LF 9" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	64.90	5.31
05 55 13 00-0010 LF 10" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	70.94	5.31
05 55 13 00-0011 LF 11" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	76.96	5.31
05 55 13 00-0012 LF 12" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	83.00	5.31
05 55 13 00-0013 Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Treads (05 55 13)		
Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.		
05 55 13 00-0014 LF 6-1/2" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	24.08	5.31
05 55 13 00-0015 LF 9" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	27.76	5.31
05 55 13 00-0016 LF 11" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	29.39	5.31



Metals	05	05
Metal Fabrications	05 50	
Metal Stair Treads And Nosings	05 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 55 13 00-0017 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Treads <small>(05 55 13)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.		
05 55 13 00-0018 LF 8" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	34.25	5.31
For Epoxy Sealed For Corrosive Environment, Add	2.56	
For Two Color Tread, Add	1.92	
05 55 13 00-0019 LF 9" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	34.56	5.31
For Epoxy Sealed For Corrosive Environment, Add	2.56	
For Two Color Tread, Add	1.92	
05 55 13 00-0020 LF 11" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	41.18	5.31
For Epoxy Sealed For Corrosive Environment, Add	2.56	
For Two Color Tread, Add	1.92	
05 55 13 00-0021 LF 12" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	46.99	5.31
For Epoxy Sealed For Corrosive Environment, Add	2.56	
For Two Color Tread, Add	1.92	
05 55 13 00-0022 LF 15" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	54.56	5.31
For Epoxy Sealed For Corrosive Environment, Add	2.56	
For Two Color Tread, Add	1.92	
05 55 13 00-0023 Stair Landing Treads <small>(05 55 13)</small>		
05 55 13 00-0024 Abrasive Cast Aluminum Stair Landing Treads <small>(05 55 13 00-0023)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0025 SF 5/16" Thick, Abrasive Cast Aluminum Landing Treads.....	59.35	5.31
For 3/8" Thick, Add	12.71	
05 55 13 00-0026 Abrasive Cast Iron Stair Landing Treads <small>(05 55 13 00-0023)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0027 SF 3/8" Thick, Abrasive Cast Iron Landing Treads.....	83.00	5.31
05 55 13 00-0028 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads <small>(05 55 13 00-0023)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 13 00-0029 SF 9/32" Thick, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads	55.23	5.31
For Epoxy Sealed For Corrosive Environment, Add	2.56	
05 55 13 00-0030 Open Cast Iron Stair Tread <small>(05 55 13)</small> Note: Includes steel stringers, safety nosing and 2 pipe handrail. Excludes landings.		
05 55 13 00-0031 RSR 3'-6" Wide, Open Cast Iron Stair Tread.....	418.56	34.90
For Closed Riser, Add	35.67	
05 55 13 00-0032 RSR 4'-0" Wide, Open Cast Iron Stair Tread.....	472.44	40.14
For Closed Riser, Add	40.14	
05 55 13 00-0033 RSR 5'-0" Wide, Open Cast Iron Stair Tread.....	522.05	47.12
For Closed Riser, Add	44.29	
05 55 16 Metal Stair Nosings <small>(05 55)</small>		
05 55 16 00-0001 Abrasive Cast Aluminum Nosings <small>(05 55 16)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0002 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing.....	18.93	3.62
For 3/8" Thick, Add	3.28	
05 55 16 00-0003 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing.....	22.86	3.62
For 3/8" Thick, Add	4.27	
05 55 16 00-0004 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing.....	31.61	3.62
For 3/8" Thick, Add	6.45	
05 55 16 00-0005 Abrasive Cast Iron Nosings <small>(05 55 16)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0006 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....	21.80	3.62
For 3/8" Thick, Add	4.00	
05 55 16 00-0007 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....	26.63	3.62
For 3/8" Thick, Add	5.21	
05 55 16 00-0008 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....	36.19	3.62
For 3/8" Thick, Add	7.60	
05 55 16 00-0009 Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosings <small>(05 55 16)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 16 00-0010 LF 1-7/8" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	16.27	3.62
05 55 16 00-0011 LF 3" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	18.17	3.62
05 55 16 00-0012 LF 4" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	19.61	3.62
05 55 16 00-0013 LF 6" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	24.10	3.62
05 55 16 00-0014 LF 1-7/8" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	16.78	3.62

05 Metals**05 50 Metal Fabrications****05 55 Metal Stair Treads And Nosings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 55 16 00-0015	LF		3" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	18.40	3.62
05 55 16 00-0016	LF		4" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	19.99	3.62
05 55 16 00-0017	LF		3" Depth, 1/4" Thick, 1-3/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	19.02	3.62
05 56 Metal Castings (05 50)					
05 56 00 00-0001 Castings (05 56)					
05 56 00 00-0002	LB		Up To 150 LB, Miscellaneous Castings, Light Section.....	3.40	0.43
05 56 00 00-0003	LB		>150 LB, Miscellaneous Castings, Heavy Section.....	5.61	0.35
05 58 Formed Metal Fabrications (05 50)					
05 58 16 Formed Metal Enclosures (05 58)					
05 58 16 00-0001 Drip Pan (05 58 16)					
05 58 16 00-0002	SF		Stainless Steel Drip Pan	65.63	5.16
05 58 16 00-0003	SF		Galvanized Steel Drip Pan.....	64.86	5.16
05 58 16 00-0004	SF		Aluminum Drip Pan.....	45.79	4.13
05 58 16 00-0005	SF		Plastic Drip Pan	13.23	3.61
05 58 23 Formed Metal Guards (05 58)					
05 58 23 00-0001 Protective Guard Rails (05 58 23)					
Note: Includes painted finish.					
05 58 23 00-0002 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001)					
Note: Steel King Armor Guard.					
05 58 23 00-0003 Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0002)					
Note: Excludes posts. Includes fasteners.					
05 58 23 00-0004	EA		1' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	123.76	17.37
05 58 23 00-0005	EA		2' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	144.09	17.37
05 58 23 00-0006	EA		3' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	163.27	17.37
05 58 23 00-0007	EA		4' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	183.61	17.37
05 58 23 00-0008	EA		5' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	202.90	17.37
05 58 23 00-0009	EA		6' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	227.91	17.37
05 58 23 00-0010	EA		7' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	244.95	17.37
05 58 23 00-0011	EA		8' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	271.33	17.37
05 58 23 00-0012	EA		9' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	288.64	17.37
05 58 23 00-0013	EA		10' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	301.01	17.37
05 58 23 00-0014 Posts For 2-Rib Guard Rails (05 58 23 00-0002)					
Note: Includes drilling, surface mounting plate and anchors.					
05 58 23 00-0015	EA		12" Height, Single Rail Post For 2-Rib Guard Rails	252.65	36.19
05 58 23 00-0016	EA		42" Height, Triple Rail Post For 2-Rib Guard Rails	323.28	36.19
05 58 23 00-0017 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001)					
Note: Steel King Steel Guard.					
05 58 23 00-0018 Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)					
Note: Excludes posts. Includes fasteners.					
05 58 23 00-0019	EA		1' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	136.01	17.37
05 58 23 00-0020	EA		2' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	149.53	17.37
05 58 23 00-0021	EA		3' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	166.41	17.37
05 58 23 00-0022	EA		4' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	182.18	17.37
05 58 23 00-0023	EA		5' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	200.43	17.37
05 58 23 00-0024	EA		6' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	209.22	17.37
05 58 23 00-0025	EA		7' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	230.38	17.37
05 58 23 00-0026	EA		8' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	248.24	17.37
05 58 23 00-0027	EA		9' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	267.21	17.37
05 58 23 00-0028	EA		10' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	286.44	17.37
05 58 23 00-0029 Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)					
Note: Excludes posts. Includes fasteners and lift-out mounting plate.					
05 58 23 00-0030	EA		1' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	196.86	17.37
05 58 23 00-0031	EA		2' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	211.70	17.37
05 58 23 00-0032	EA		3' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	227.08	17.37
05 58 23 00-0033	EA		4' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	244.95	17.37
05 58 23 00-0034	EA		5' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	262.81	17.37
05 58 23 00-0035	EA		6' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	277.37	17.37
05 58 23 00-0036	EA		7' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	294.14	17.37
05 58 23 00-0037	EA		8' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	313.10	17.37
05 58 23 00-0038	EA		9' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	333.43	17.37
05 58 23 00-0039	EA		10' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	351.30	17.37



Metals	05	05
Metal Fabrications	05 50	
Formed Metal Fabrications	05 58	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 58 23 00-0040 Posts For 3-Rib Guard Rails <small>(05 58 23 00-0017)</small> Note: Includes drilling, surface mounting plate and anchors.		
05 58 23 00-0041 EA 18" Height, Single Rail Post For 3-Rib Guard Rails.....	224.51	36.19
05 58 23 00-0042 EA 42" Height, Double Rail Post For 3-Rib Guard Rails.....	281.78	36.19
05 58 23 00-0043 All-Welded, Protective Guards <small>(05 58 23)</small> Note: Surface mounted inverted-U style protective barriers. Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0044 All-Welded, Protective Guards <small>(05 58 23 00-0043)</small>		
05 58 23 00-0045 EA 36" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	293.54	48.25
05 58 23 00-0046 EA 48" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	307.28	48.25
05 58 23 00-0047 EA 36" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	315.24	48.25
05 58 23 00-0048 EA 48" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	327.06	48.25
05 58 23 00-0049 EA 36" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	324.31	48.25
05 58 23 00-0050 EA 48" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	338.88	48.25
05 58 23 00-0051 EA 36" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	343.00	48.25
05 58 23 00-0052 EA 48" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	347.67	48.25
05 58 23 00-0053 EA 48" Length, 42" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	369.93	48.25
05 58 23 00-0054 Corner Style, All-Welded, Protective Guards <small>(05 58 23 00-0043)</small>		
05 58 23 00-0055 EA 24" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	378.72	48.25
05 58 23 00-0056 EA 30" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	395.21	48.25
05 58 23 00-0057 EA 24" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	402.08	48.25
05 58 23 00-0058 EA 30" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	435.88	48.25
05 58 23 00-0059 Warehouse Safety Bollards <small>(05 58 23)</small> Note: Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0060 EA 24" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	189.43	36.19
05 58 23 00-0061 EA 36" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	216.58	36.19
05 58 23 00-0062 EA 42" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	245.33	36.19
05 58 23 00-0063 EA 36" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	253.19	36.19
05 58 23 00-0064 EA 42" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	271.32	36.19
05 59 Metal Specialties <small>(05 50)</small>		
05 59 65 Metal Chain <small>(05 59)</small>		
05 59 65 00-0001 Alloy Steel Chain, Self Colored, Cut Length <small>(05 59 65)</small> Note: Includes all connecting links, double clevis mid-Links, slip or grab hooks, or shackles as required.		
05 59 65 00-0002 LF 3/16" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	4.17	0.85
For Plastic Dipped, Add	0.37	
05 59 65 00-0003 LF 1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	5.58	1.13
For Plastic Dipped, Add	0.50	
05 59 65 00-0004 LF 3/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	8.99	2.24
For Plastic Dipped, Add	0.67	
05 59 65 00-0005 LF 1/2" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	14.49	3.79
For Plastic Dipped, Add	1.04	
05 59 65 00-0006 LF 5/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	24.47	6.41
For Plastic Dipped, Add	1.75	
05 59 65 00-0007 LF 3/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	34.34	9.00
For Plastic Dipped, Add	2.45	
05 59 65 00-0008 LF 7/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	46.46	11.24
For Plastic Dipped, Add	3.60	
05 59 65 00-0009 LF 1" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	66.75	14.99
For Plastic Dipped, Add	5.51	
05 59 65 00-0010 LF 1-1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	107.88	22.49
For Plastic Dipped, Add	9.44	

END OF SECTION 05

05	05	Metals
	05 50	Metal Fabrications
	05 59	Metal Specialties



MINOR				
CSI	UOM	DESCRIPTION	TOTAL DIRECT	DEMOLITION
			UNIT COST	UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 Thermal And Moisture Protection

07 10 Dampproofing And Waterproofing ⁽⁰⁷⁾

Note: The following tasks are for application to vertical (walls and foundations) surfaces. For horizontal (flat) surfaces apply the appropriate modifier to reduce the labor cost. Waterproofing is the treatment of a surface or structure to PREVENT the passage of water under hydrostatic pressure. Dampproofing is the treatment of a surface or structure to RESIST the passage of water in the absence of hydrostatic pressure.

07 11 Dampproofing ^(07 10)

07 11 13 Bituminous Dampproofing ^(07 11)

07 11 13 00-0001 Fibrous Asphalt Dampproofing, Brush, Roller Or Spray ^(07 11 13)

07 11 13 00-0002	CSF 1 Coat, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray	123.46
07 11 13 00-0003	CSF 2 Coats, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray	194.28

07 11 13 00-0004 Fibrous Asphalt Dampproofing, Troweled On ^(07 11 13)

07 11 13 00-0005	CSF Primer And 1 Coat, Fibrous Asphalt Dampproofing, Troweled On	208.74
07 11 13 00-0006	CSF Primer And 2 Coats, Fibrous Asphalt Dampproofing, Troweled On	318.35

07 11 13 00-0007 Asphaltic Paint Dampproofing ^(07 11 13)

07 11 13 00-0008	CSF 1 Coat, Asphaltic Paint Dampproofing, Brushed On	100.80
07 11 13 00-0009	CSF 2 Coats, Asphaltic Paint Dampproofing, Brushed On	185.65

07 11 19 Sheet Dampproofing ^(07 11)

07 11 19 00-0001 Neoprene ^(07 11 19)

07 11 19 00-0002	SF 1/16" Patch Neoprene Roof (5-20 SF)	28.84
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07 13 Sheet Waterproofing ^(07 10)

07 13 13 Bituminous Sheet Waterproofing ^(07 13)

07 13 13 00-0001 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped ^(07 13 13)

07 13 13 00-0002	CSF 1 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	218.35		86.18
	<i>For 30 LB Felt, Add</i>	34.49		
	<i>For Application To Horizontal Surfaces, Deduct</i>	-25.86		
07 13 13 00-0003	CSF 2 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	266.28		96.96
	<i>For 30 LB Felt, Add</i>	54.27		
	<i>For Application To Horizontal Surfaces, Deduct</i>	-29.09		
07 13 13 00-0004	CSF 3 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	314.19		107.73
	<i>For 30 LB Felt, Add</i>	74.05		
	<i>For Application To Horizontal Surfaces, Deduct</i>	-32.32		
07 13 13 00-0005	CSF 4 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	362.12		118.50
	<i>For 30 LB Felt, Add</i>	93.83		
	<i>For Application To Horizontal Surfaces, Deduct</i>	-35.55		
07 13 13 00-0006	CSF 5 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	410.03		129.27
	<i>For 30 LB Felt, Add</i>	113.61		
	<i>For Application To Horizontal Surfaces, Deduct</i>	-38.78		

07 13 13 00-0007 Asphalt Coated Protective Board ^(07 13 13)

07 13 13 00-0008	CSF 1/8" Asphalt Coated Protective Board	216.03		85.25
	<i>For Application To Horizontal Surfaces, Deduct</i>	-28.43		
07 13 13 00-0009	CSF 1/4" Asphalt Coated Protective Board	296.91		88.52
	<i>For Application To Horizontal Surfaces, Deduct</i>	-29.51		
07 13 13 00-0010	CSF 3/8" Asphalt Coated Protective Board	394.45		92.24
	<i>For Application To Horizontal Surfaces, Deduct</i>	-30.74		
07 13 13 00-0011	CSF 1/2" Asphalt Coated Protective Board	443.44		95.96
	<i>For Application To Horizontal Surfaces, Deduct</i>	-31.99		

07 13 53 Elastomeric Sheet Waterproofing ^(07 13)

07 13 53 00-0001 Rubberized Membrane Sheet ^(07 13 53)

07 13 53 00-0002	SF 215 Mil Rubberized Asphalt Membrane Sheet, Vertical Surface	6.24		0.88
	<i>For Floor Surfaces, Deduct</i>	-0.89		

07 13 53 00-0003 Ethylene Propylene Diene Monomer (EPDM) ^(07 13 53)

07 13 53 00-0004	CSF 45 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	431.88		123.93
	<i>For Application To Horizontal Surfaces, Deduct</i>	-37.17		
07 13 53 00-0005	CSF 60 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	516.84		123.93
	<i>For Application To Horizontal Surfaces, Deduct</i>	-37.17		

07 Thermal And Moisture Protection**07 10 Dampproofing And Waterproofing****07 13 Sheet Waterproofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 13 53 00-0006			Butyl Sheet Waterproofing (07 13 53)		
07 13 53 00-0007	CSF		1/32" Butyl Sheet Waterproofing.....	99.48	30.98
			<i>For Joint Taping, Add</i>	12.11	
			<i>For Each Additional Ply, Add</i>	72.74	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.66	
07 13 53 00-0008	CSF		1/16" Butyl Sheet Waterproofing.....	121.26	30.98
			<i>For Joint Taping, Add</i>	13.20	
			<i>For Each Additional Ply, Add</i>	87.99	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.66	
07 13 53 00-0009			Butyl With Nylon (07 13 53)		
07 13 53 00-0010	CSF		1/32" Butyl Elastomeric Waterproofing With Nylon.....	111.93	30.98
			<i>For Joint Taping, Add</i>	12.74	
			<i>For Each Additional Ply, Add</i>	81.46	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.66	
07 13 53 00-0011	CSF		1/16" Butyl Elastomeric Waterproofing With Nylon.....	125.93	30.98
			<i>For Joint Taping, Add</i>	13.44	
			<i>For Each Additional Ply, Add</i>	91.26	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.66	
07 13 53 00-0012			Neoprene Sheet Waterproofing (07 13 53)		
07 13 53 00-0013	CSF		1/32" Neoprene Sheet Waterproofing.....	183.55	30.98
			<i>For Joint Taping, Add</i>	16.32	
			<i>For Each Additional Ply, Add</i>	131.59	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.66	
07 13 53 00-0014	CSF		1/16" Neoprene Sheet Waterproofing.....	276.25	30.98
			<i>For Joint Taping, Add</i>	20.95	
			<i>For Each Additional Ply, Add</i>	196.48	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.66	
07 13 53 00-0015			Neoprene With Nylon (07 13 53)		
07 13 53 00-0016	CSF		1/32" Neoprene Elastomeric Waterproofing With Nylon.....	193.23	30.98
			<i>For Joint Taping, Add</i>	16.80	
			<i>For Each Additional Ply, Add</i>	138.37	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.66	
07 13 53 00-0017	CSF		1/16" Neoprene Elastomeric Waterproofing With Nylon.....	291.70	30.98
			<i>For Joint Taping, Add</i>	21.72	
			<i>For Each Additional Ply, Add</i>	207.29	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.66	
07 13 53 00-0018			Plastic Vapor Barrier (Polyethylene) (07 13 53)		
07 13 53 00-0019	CSF		4 Mil Polyethylene Vapor Barrier.....	30.07	11.77
			<i>For Joint Taping, Add</i>	7.50	
			<i>For Each Additional Ply, Add</i>	23.65	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-3.91	
07 13 53 00-0020	CSF		6 Mil Polyethylene Vapor Barrier.....	30.65	11.77
			<i>For Joint Taping, Add</i>	7.52	
			<i>For Each Additional Ply, Add</i>	24.06	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-3.91	
07 13 53 00-0021	CSF		10 Mil Polyethylene Vapor Barrier.....	45.43	11.77
			<i>For Joint Taping, Add</i>	8.26	
			<i>For Each Additional Ply, Add</i>	34.41	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-3.91	
07 13 53 00-0022	CSF		60 Mil Polyethylene Vapor Barrier With Bentonite.....	145.55	11.77
			Note: Includes seam tape, liquid mastic, anchors and termination bar.		
			<i>For Each Additional Ply, Add</i>	104.78	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.34	
07 13 53 00-0023			Plastic Vapor Barrier (PVC) (07 13 53)		
07 13 53 00-0024	CSF		10 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	50.70	13.03
			<i>For Joint Taping, Add</i>	8.53	
			<i>For Each Additional Ply, Add</i>	38.10	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-3.91	
07 13 53 00-0025	CSF		20 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	69.62	13.51
			<i>For Joint Taping, Add</i>	9.70	
			<i>For Each Additional Ply, Add</i>	51.44	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.06	
07 13 53 00-0026	CSF		30 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	95.21	13.99
			<i>For Joint Taping, Add</i>	11.19	
			<i>For Each Additional Ply, Add</i>	69.44	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.20	
07 13 53 00-0027			Vinyl Plastic Vapor Barrier (07 13 53)		
07 13 53 00-0028	CSF		Tu-Tuf 4, 4 Mil Vinyl Plastic Vapor Barrier With Fiberglass Insulation At Joints.....	35.17	12.06



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 14 Fluid-Applied Waterproofing (07 10)

07 14 13 Hot Fluid-Applied Rubberized Asphalt Waterproofing (07 14)

07 14 13 00-0001 Hot Applied Rubberized Asphalt Waterproofing Coating (07 14 13)

07 14 13 00-0002	SF	90 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	1.67	
		Note: Includes primer.		
		<i>For Application To Horizontal Surfaces, Deduct</i>	-0.17	
		<i>For Reinforcing Fabric, Add</i>	0.35	
07 14 13 00-0003	SF	125 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	1.92	
		Note: Includes primer.		
		<i>For Application To Horizontal Surfaces, Deduct</i>	-0.17	
		<i>For Reinforcing Fabric, Add</i>	0.35	

07 14 16 Cold Fluid-Applied Waterproofing (07 14)

07 14 16 00-0001 Fluid Applied Rubber Based Polyurethane (07 14 16)

07 14 16 00-0002	SF	60 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	3.25	
		<i>For Application To Horizontal Surfaces, Deduct</i>	-0.37	
07 14 16 00-0003	SF	90 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	3.75	
		<i>For Application To Horizontal Surfaces, Deduct</i>	-0.39	
07 14 16 00-0004	SF	120 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	4.29	
		<i>For Application To Horizontal Surfaces, Deduct</i>	-0.42	

07 14 16 00-0005 One Part Solution Of Chlorosulfonated Polyethylene Polymer (07 14 16)

07 14 16 00-0006	SF	Chlorosulfonated Polyethylene Polymer 1 Part Solution, 15 Mil, Finish Coat.....	2.24	
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07 14 16 00-0007 Copolymer Compound (07 14 16)

07 14 16 00-0008	SF	Fluid Elastomeric Copolymer Compound For Slabs 32 Mil.....	3.49	
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07 14 16 00-0009 Fluid Applied Neoprene (07 14 16)

07 14 16 00-0010	CSF	Fluid Neoprene, 1/8" Fiberglass Reinforced.....	398.34	
		<i>For Application To Horizontal Surfaces, Deduct</i>	-45.15	
07 14 16 00-0011	CSF	Fluid Neoprene, 50 Mil, 4 Coats.....	834.62	
		<i>For Application To Horizontal Surfaces, Deduct</i>	-88.56	
07 14 16 00-0012	CSF	Fluid Neoprene, 90 Mil, 4 Coats.....	1,373.59	
		<i>For Application To Horizontal Surfaces, Deduct</i>	-132.78	

07 16 Cementitious And Reactive Waterproofing (07 10)

07 16 13 Polymer Modified Cement Waterproofing (07 16)

07 16 13 00-0001	SF	Polymer Modified Cementitious Waterproofing Assembly, 2 Coats.....	3.62	
		Note: As manufactured by Thoro Consumer Products. Includes Thoroseal, Acryl 60, acrylic waterproof coating and white pigmented acrylic copolymer primer.		

07 16 16 Crystalline Waterproofing (07 16)

07 16 16 00-0001	SF	Crystalline Cementitious Waterproofing, 2 Coats (Xypex Concentrate).....	4.29	
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07 16 19 Metal Oxide Waterproofing (07 16)

07 16 19 00-0001 Metallic Oxide Waterproofing (07 16 19)

Note: Includes one broom applied bond coat and three brush applied waterproof coats. Excludes concrete repairs to subbase and final protective concrete surface coat.

07 16 19 00-0002	CSF	Catalyzed Metallic Waterproofing Treatment, Metal Oxide Waterproofing (Euclid Iron Waterpeller).....	371.60	
		<i>For Application To Horizontal Surfaces, Deduct</i>	-48.84	

07 19 Water Repellents (07 10)

07 19 13 Acrylic Sealer (07 19)

Note: Per coat.

07 19 13 00-0001	SF	Acrylic Sealer, Spray On Concrete.....	1.90	
07 19 13 00-0002	SF	Acrylic Sealer, Spray On Concrete Block/Brick.....	2.27	
07 19 13 00-0003	SF	Acrylic Sealer, Spray On Stone.....	2.49	

07 19 16 Silane Water Repellents (07 19)

07 19 16 00-0001 Silane Concrete Sealer (07 19 16)

07 19 16 00-0002	SF	Spray On Concrete, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB).....	0.45	
07 19 16 00-0003	SF	Spray On Concrete Block/Brick, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB).....	0.67	

07 Thermal And Moisture Protection**07 10 Dampproofing And Waterproofing****07 19 Water Repellents**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
07 19 16 00-0004		Silane/Siloxane Concrete Sealer <small>(07 19 16)</small>			
07 19 16 00-0005	SF	Spray On Concrete, Solvent Based, Silane/Siloxane Concrete Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)		0.77	
		Note: 40% silane, alcohol based.			
07 19 16 00-0006	SF	Spray On Concrete Block/Brick, Solvent Based, Silane/Siloxane Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)		1.11	
		Note: 40% silane, alcohol based.			
07 19 16 00-0007	SF	Spray On Concrete, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)		0.32	
		Note: 200 SF/GAL			
07 19 16 00-0008	SF	Spray On Concrete Block/Masonry, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)		0.46	

END OF SECTION 07



Finishes	09	
Painting And Coating	09 90	9
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 Finishes

09 90 Painting And Coating⁽⁰⁹⁾

Note: Includes masking, safety signs, cleaning of area (dry wiping down walls, floors, doors, etc.), removal of loose paint (paint, caulk, etc.), feathering rough edges, sanding between coats, protective work to contain dust and paint splatters (drop cloths), unless otherwise noted, removal and reinstallation of cabinet hardware, switch covers and outlet plates, equipment to place paint and ladders. New construction work additionally includes filling knots, divots, depressions, holes (screw and nail holes in drywall to 1/4" diameter of unlimited quantity). All work designated as "brush/roller" includes brush work for cut and roller work up to cut in.

09 91 Painting^(09 90)

09 91 13 Exterior Painting^(09 91)

Note: Acrylic latex paint unless otherwise stated.

09 91 13 00-001 Paint Exterior Walls/Siding^(09 91 13)

09 91 13 00-002 Paint Exterior Brick Walls^(09 91 13 00-001)

09 91 13 00-003	SF	Paint Exterior Brick Walls, 1 Coat Filler, Brush Work.....	0.86
		<i>For Oil Based Paint, Add</i>	0.05
		<i>For Work >20', Add</i>	0.19
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Up To 100, Add</i>	0.57
		<i>For >100 To 250, Add</i>	0.27
		<i>For >250 To 500, Add</i>	0.12
		<i>For >2,500 To 5,000, Deduct</i>	-0.04
		<i>For >5,000 To 10,000, Deduct</i>	-0.09
		<i>For >10,000 To 20,000, Deduct</i>	-0.13
		<i>For >20,000, Deduct</i>	-0.17
09 91 13 00-004	SF	Paint Exterior Brick Walls, 1 Coat Paint, Brush Work.....	1.24
		<i>For Oil Based Paint, Add</i>	0.07
		<i>For Work >20', Add</i>	0.28
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Up To 100, Add</i>	0.85
		<i>For >100 To 250, Add</i>	0.40
		<i>For >250 To 500, Add</i>	0.17
		<i>For >2,500 To 5,000, Deduct</i>	-0.06
		<i>For >5,000 To 10,000, Deduct</i>	-0.12
		<i>For >10,000 To 20,000, Deduct</i>	-0.19
		<i>For >20,000, Deduct</i>	-0.25
09 91 13 00-005	SF	Paint Exterior Brick Walls, 2 Coats Paint, Brush Work.....	1.78
		<i>For Oil Based Paint, Add</i>	0.10
		<i>For Work >20', Add</i>	0.37
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Up To 100, Add</i>	1.16
		<i>For >100 To 250, Add</i>	0.55
		<i>For >250 To 500, Add</i>	0.24
		<i>For >2,500 To 5,000, Deduct</i>	-0.09
		<i>For >5,000 To 10,000, Deduct</i>	-0.18
		<i>For >10,000 To 20,000, Deduct</i>	-0.27
		<i>For >20,000, Deduct</i>	-0.36
09 91 13 00-006	SF	Paint Exterior Brick Walls, 1 Coat Filler, Brush/Roller Work.....	0.56
		<i>For Oil Based Paint, Add</i>	0.03
		<i>For Work >20', Add</i>	0.11
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Up To 100, Add</i>	0.35
		<i>For >100 To 250, Add</i>	0.17
		<i>For >250 To 500, Add</i>	0.07
		<i>For >2,500 To 5,000, Deduct</i>	-0.03
		<i>For >5,000 To 10,000, Deduct</i>	-0.06
		<i>For >10,000 To 20,000, Deduct</i>	-0.08
		<i>For >20,000, Deduct</i>	-0.11
09 91 13 00-007	SF	Paint Exterior Brick Walls, 1 Coat Paint, Brush/Roller Work.....	0.94
		<i>For Oil Based Paint, Add</i>	0.06
		<i>For Work >20', Add</i>	0.19
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Up To 100, Add</i>	0.60
		<i>For >100 To 250, Add</i>	0.28
		<i>For >250 To 500, Add</i>	0.12
		<i>For >2,500 To 5,000, Deduct</i>	-0.05
		<i>For >5,000 To 10,000, Deduct</i>	-0.09
		<i>For >10,000 To 20,000, Deduct</i>	-0.14
		<i>For >20,000, Deduct</i>	-0.19
09 91 13 00-008	SF	Paint Exterior Brick Walls, 2 Coats Paint, Brush/Roller Work.....	1.37
		<i>For Oil Based Paint, Add</i>	0.09
		<i>For Work >20', Add</i>	0.26
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Up To 100, Add</i>	0.83
		<i>For >100 To 250, Add</i>	0.40
		<i>For >250 To 500, Add</i>	0.17
		<i>For >2,500 To 5,000, Deduct</i>	-0.07
		<i>For >5,000 To 10,000, Deduct</i>	-0.14
		<i>For >10,000 To 20,000, Deduct</i>	-0.21
		<i>For >20,000, Deduct</i>	-0.27

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0009	SF		Paint Exterior Brick Walls, 1 Coat Filler, Sprayed.....	0.49	
			For Oil Based Paint, Add	0.03	
			For Work >20', Add	0.09	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.28	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.07	
			For >20,000, Deduct	-0.10	
09 91 13 00-0010	SF		Paint Exterior Brick Walls, 1 Coat Paint, Sprayed.....	0.47	
			For Oil Based Paint, Add	0.03	
			For Work >20', Add	0.07	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.23	
			For >100 To 250, Add	0.11	
			For >250 To 500, Add	0.05	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.07	
			For >20,000, Deduct	-0.09	
09 91 13 00-0011	SF		Paint Exterior Brick Walls, 2 Coats Paint, Sprayed.....	1.04	
			For Oil Based Paint, Add	0.07	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0012			Paint Exterior Concrete Walls (09 91 13 00-0001)		
09 91 13 00-0013	SF		Paint Exterior Concrete Walls, 1 Coat Filler, Brush Work.....	0.74	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.07	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 13 00-0014	SF		Paint Exterior Concrete Walls, 1 Coat Paint, Brush Work.....	0.81	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.18	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0015	SF		Paint Exterior Concrete Walls, 2 Coats Paint, Brush Work.....	1.52	
			For Oil Based Paint, Add	0.08	
			For Epoxy Paint, Add	0.12	
			For Work >20', Add	0.34	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.04	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.23	
			For >20,000, Deduct	-0.30	
09 91 13 00-0016	SF		Paint Exterior Concrete Walls, 1 Coat Filler, Brush/Roller Work.....	0.58	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.12	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	



Finishes	09	2
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0017 SF Paint Exterior Concrete Walls, 1 Coat Paint, Brush/Roller Work	0.68	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.06	
For Work >20', Add	0.15	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.14	
09 91 13 00-0018 SF Paint Exterior Concrete Walls, 2 Coats Paint, Brush/Roller Work.....	1.13	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.10	
For Work >20', Add	0.24	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.75	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 13 00-0019 SF Paint Exterior Concrete Walls, 1 Coat Filler, Sprayed	0.44	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.06	
For Work >20', Add	0.08	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.26	
For >100 To 250, Add	0.12	
For >250 To 500, Add	0.05	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.09	
09 91 13 00-0020 SF Paint Exterior Concrete Walls, 1 Coat Paint, Sprayed.....	0.41	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.05	
For Work >20', Add	0.08	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.25	
For >100 To 250, Add	0.12	
For >250 To 500, Add	0.05	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 20,000, Deduct	-0.06	
For >20,000, Deduct	-0.08	
09 91 13 00-0021 SF Paint Exterior Concrete Walls, 2 Coats Paint, Sprayed	0.70	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.10	
For Work >20', Add	0.13	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.41	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0022 Paint Exterior Concrete Block Walls (09 91 13 00-0001)		
09 91 13 00-0023 Paint Exterior Concrete Block Walls, Epoxy Paint (09 91 13 00-0022)		
09 91 13 00-0024 SF Paint Exterior Concrete Block Walls, 1 Coat Epoxy Filler, Brush Work	1.01	
For Work >20', Add	0.21	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0025 SF Paint Exterior Concrete Block Walls, 1 Coat Epoxy Paint, Brush	1.17	
For Work >20', Add	0.25	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.77	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.23	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0026	SF		Paint Exterior Concrete Block Walls, 2 Coats Epoxy Paint, Brush Work	2.03	
			For Work >20', Add	0.42	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.30	
			For >100 To 250, Add	0.62	
			For >250 To 500, Add	0.27	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 20,000, Deduct	-0.30	
			For >20,000, Deduct	-0.41	
09 91 13 00-0027	SF		Paint Exterior Concrete Block Walls, 1 Coat Epoxy Filler, Brush/Roller Work	0.81	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0028	SF		Paint Exterior Concrete Block Walls, 1 Coat Epoxy Paint, Brush/Roller Work.....	0.91	
			For Work >20', Add	0.18	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91 13 00-0029	SF		Paint Exterior Concrete Block Walls, 2 Coats Epoxy Paint, Brush/Roller Work	1.59	
			For Work >20', Add	0.31	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.97	
			For >100 To 250, Add	0.46	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.32	
09 91 13 00-0030	SF		Paint Exterior Concrete Block Walls, 1 Coat Epoxy Filler, Sprayed.....	0.57	
			For Work >20', Add	0.09	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.29	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.11	
09 91 13 00-0031	SF		Paint Exterior Concrete Block Walls, 1 Coat Epoxy Paint, Sprayed	0.64	
			For Work >20', Add	0.10	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.34	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 13 00-0032	SF		Paint Exterior Concrete Block Walls, 2 Coats Epoxy Paint, Sprayed.....	1.22	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0033			Paint Exterior Concrete Block Walls, Acrylic Latex Paint (09 91 13 00-0022)		
09 91 13 00-0034	SF		Paint Exterior Concrete Block Walls, 1 Coat Filler, Brush Work	0.95	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.21	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.64	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0035	SF	Paint Exterior Concrete Block Walls, 1 Coat Paint, Brush Work.....	1.11	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.24	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.74	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	
09 91	13 00-0036	SF	Paint Exterior Concrete Block Walls, 2 Coats Paint, Brush Work.....	2.02	
			For Oil Based Paint, Add	0.12	
			For Work >20', Add	0.42	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.32	
			For >100 To 250, Add	0.62	
			For >250 To 500, Add	0.27	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 20,000, Deduct	-0.30	
			For >20,000, Deduct	-0.40	
09 91	13 00-0037	SF	Paint Exterior Concrete Block Walls, Texture Coat, Brush Work.....	1.23	
			For Oil Based Paint, Add	0.07	
			For Work >20', Add	0.26	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.25	
09 91	13 00-0038	SF	Paint Exterior Concrete Block Walls, 1 Coat Filler, Brush/Roller Work.....	0.74	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.48	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91	13 00-0039	SF	Paint Exterior Concrete Block Walls, 1 Coat Paint, Brush/Roller Work.....	0.94	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.20	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.61	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91	13 00-0040	SF	Paint Exterior Concrete Block Walls, 2 Coats Paint, Brush/Roller Work.....	1.59	
			For Oil Based Paint, Add	0.10	
			For Work >20', Add	0.32	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.99	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.32	
09 91	13 00-0041	SF	Paint Exterior Concrete Block Walls, Texture Coat, Brush/Roller Work.....	1.05	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.22	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0042	SF		Paint Exterior Concrete Block Walls, 1 Coat Filler, Sprayed.....	0.61	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.36	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0043	SF		Paint Exterior Concrete Block Walls, 1 Coat Paint, Sprayed	0.64	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.36	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 13 00-0044	SF		Paint Exterior Concrete Block Walls, 2 Coats Paint, Sprayed.....	1.02	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.62	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0045	SF		Paint Exterior Concrete Block Walls, Texture Coat, Sprayed	0.84	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.15	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.48	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 13 00-0046			Paint Exterior Metal Walls (09 91 13 00-0001)		
09 91 13 00-0047			Paint Exterior Galvanized Walls (09 91 13 00-0046)		
			Note: Linseed oil or acrylic latex paint.		
09 91 13 00-0048	SF		Paint Exterior Galvanized Wall Surfaces, 1 Coat Primer, Brush Work.....	0.83	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.17	
09 91 13 00-0049	SF		Paint Exterior Galvanized Wall Surfaces, 1 Coat Paint, Brush Work.....	0.94	
			For Work >20', Add	0.21	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 13 00-0050	SF		Paint Exterior Galvanized Wall Surfaces, 2 Coats Paint, Brush Work	1.68	
			For Work >20', Add	0.37	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.15	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.34	



Finishes	09	09
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0051 SF Paint Exterior Galvanized Walls, 1 Coat Primer, Brush/Roller Work.....	0.61	
For Work >20', Add	0.13	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.41	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0052 SF Paint Exterior Galvanized Walls, 1 Coat Paint, Brush/Roller Work.....	0.72	
For Work >20', Add	0.16	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0053 SF Paint Exterior Galvanized Walls, 2 Coats Paint, Brush/Roller Work.....	1.32	
For Work >20', Add	0.29	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.89	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 13 00-0054 SF Paint Exterior Galvanized Walls, 1 Coat Primer, Sprayed.....	0.39	
For Work >20', Add	0.07	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.23	
For >100 To 250, Add	0.11	
For >250 To 500, Add	0.05	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 20,000, Deduct	-0.06	
For >20,000, Deduct	-0.08	
09 91 13 00-0055 SF Paint Exterior Galvanized Walls, 1 Coat Paint, Sprayed.....	0.56	
For Work >20', Add	0.11	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 13 00-0056 SF Paint Exterior Galvanized Walls, 2 Coats Paint, Sprayed.....	0.90	
For Work >20', Add	0.17	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0057 Paint Exterior Aluminum And Aluminum Alloy Walls (09 91 13 00-0046)		
Note: Alkyd enamel paint.		
09 91 13 00-0058 SF Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces, 1 Coat Primer, Brush Work.....	0.83	
For Work >20', Add	0.19	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.17	
09 91 13 00-0059 SF Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces, 1 Coat Paint, Brush Work.....	0.94	
For Work >20', Add	0.21	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0060	SF		Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces, 2 Coats Paint, Brush Work	1.68	
			For Work >20', Add	0.37	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.15	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.34	
09 91 13 00-0061	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 1 Coat Primer, Brush/Roller Work.....	0.64	
			For Work >20', Add	0.13	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 13 00-0062	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 1 Coat Paint, Brush/Roller Work	0.75	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 13 00-0063	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 2 Coats Paint, Brush/Roller Work	1.38	
			For Work >20', Add	0.29	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.90	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	
09 91 13 00-0064	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 1 Coat Primer, Sprayed	0.45	
			For Work >20', Add	0.09	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.27	
			For >100 To 250, Add	0.13	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.07	
			For >20,000, Deduct	-0.09	
09 91 13 00-0065	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 1 Coat Paint, Sprayed.....	0.56	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
09 91 13 00-0066	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 2 Coats Paint, Sprayed.....	0.90	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91 13 00-0067			Paint Exterior Aluminum And Aluminum Alloy Roof Stacks (09 91 13 00-0046)		
09 91 13 00-0068	LF		Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, 1 Coat Primer, Per LF Of Stack.....	10.76	
			For Work >20', Add	2.55	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	7.74	
			For >100 To 250, Add	3.63	
			For >250 To 500, Add	1.56	
			For >2,500 To 5,000, Deduct	-0.54	
			For >5,000 To 10,000, Deduct	-1.08	
			For >10,000 To 20,000, Deduct	-1.61	
			For >20,000, Deduct	-2.15	



Finishes	09	9
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0069 LF Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, 1 Coat Paint, Per LF Of Stack	11.96	
For Work >20', Add	2.84	
Note: Applied only to work area above 20'.		
For Up To 100, Add	8.60	
For >100 To 250, Add	4.03	
For >250 To 500, Add	1.73	
For >2,500 To 5,000, Deduct	-0.60	
For >5,000 To 10,000, Deduct	-1.20	
For >10,000 To 20,000, Deduct	-1.79	
For >20,000, Deduct	-2.39	
09 91 13 00-0070 LF Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, 2 Coats Paint, Per LF Of Stack	22.43	
For Work >20', Add	5.33	
Note: Applied only to work area above 20'.		
For Up To 100, Add	16.16	
For >100 To 250, Add	7.58	
For >250 To 500, Add	3.25	
For >2,500 To 5,000, Deduct	-1.12	
For >5,000 To 10,000, Deduct	-2.24	
For >10,000 To 20,000, Deduct	-3.36	
For >20,000, Deduct	-4.49	
09 91 13 00-0071 Paint Exterior Corrugated Metal Walls (09 91 13 00-0046)		
09 91 13 00-0072 SF Paint Exterior Corrugated Metal Walls, 1 Coat Primer, Sprayed.....	0.51	
For Work >20', Add	0.10	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.30	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.10	
09 91 13 00-0073 SF Paint Exterior Corrugated Metal Walls, 1 Coat Paint, Sprayed.....	0.74	
For Work >20', Add	0.15	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0074 SF Paint Exterior Corrugated Metal Walls, 2 Coats Paint, Sprayed	1.16	
For Work >20', Add	0.23	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 13 00-0075 Paint Exterior Stucco Walls (09 91 13 00-0001)		
09 91 13 00-0076 SF Paint Exterior Stucco Wall Surfaces 1 Coat Primer, Brush Work.....	1.28	
For Oil Based Paint, Add	0.07	
For Work >20', Add	0.29	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.89	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.26	
09 91 13 00-0077 SF Paint Exterior Stucco Wall Surfaces 1 Coat Paint, Brush Work.....	1.41	
For Oil Based Paint, Add	0.08	
For Work >20', Add	0.32	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.97	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	

09	Finishes
09 90	Painting And Coating
09 91	Painting



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

09 91 13 00-0078	SF	Paint Exterior Stucco Wall Surfaces, 2 Coats Paint, Brush Work	2.61
		For Oil Based Paint, Add	0.15
		For Work >20', Add	0.58
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	1.78
		For >100 To 250, Add	0.84
		For >250 To 500, Add	0.36
		For >2,500 To 5,000, Deduct	-0.13
		For >5,000 To 10,000, Deduct	-0.26
		For >10,000 To 20,000, Deduct	-0.39
		For >20,000, Deduct	-0.52
09 91 13 00-0079	SF	Paint Exterior Stucco Walls, 1 Coat Primer, Brush/Roller Work.....	0.96
		For Oil Based Paint, Add	0.05
		For Work >20', Add	0.21
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.65
		For >100 To 250, Add	0.31
		For >250 To 500, Add	0.13
		For >2,500 To 5,000, Deduct	-0.05
		For >5,000 To 10,000, Deduct	-0.10
		For >10,000 To 20,000, Deduct	-0.14
		For >20,000, Deduct	-0.19
09 91 13 00-0080	SF	Paint Exterior Stucco Walls, 1 Coat Paint, Brush/Roller Work.....	1.08
		For Oil Based Paint, Add	0.06
		For Work >20', Add	0.24
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.73
		For >100 To 250, Add	0.34
		For >250 To 500, Add	0.15
		For >2,500 To 5,000, Deduct	-0.05
		For >5,000 To 10,000, Deduct	-0.11
		For >10,000 To 20,000, Deduct	-0.16
		For >20,000, Deduct	-0.22
09 91 13 00-0081	SF	Paint Exterior Stucco Walls, 2 Coats Paint, Brush/Roller Work	1.99
		For Oil Based Paint, Add	0.11
		For Work >20', Add	0.43
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	1.32
		For >100 To 250, Add	0.62
		For >250 To 500, Add	0.27
		For >2,500 To 5,000, Deduct	-0.10
		For >5,000 To 10,000, Deduct	-0.20
		For >10,000 To 20,000, Deduct	-0.30
		For >20,000, Deduct	-0.40
09 91 13 00-0082	SF	Paint Exterior Stucco Walls, 1 Coat Primer, Sprayed	0.63
		For Oil Based Paint, Add	0.04
		For Work >20', Add	0.12
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.39
		For >100 To 250, Add	0.19
		For >250 To 500, Add	0.08
		For >2,500 To 5,000, Deduct	-0.03
		For >5,000 To 10,000, Deduct	-0.06
		For >10,000 To 20,000, Deduct	-0.09
		For >20,000, Deduct	-0.13
09 91 13 00-0083	SF	Paint Exterior Stucco Walls, 1 Coat Paint, Sprayed.....	0.76
		For Oil Based Paint, Add	0.05
		For Work >20', Add	0.15
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.46
		For >100 To 250, Add	0.22
		For >250 To 500, Add	0.10
		For >2,500 To 5,000, Deduct	-0.04
		For >5,000 To 10,000, Deduct	-0.08
		For >10,000 To 20,000, Deduct	-0.11
		For >20,000, Deduct	-0.15
09 91 13 00-0084	SF	Paint Exterior Stucco Walls, 2 Coats Paint, Sprayed.....	1.47
		For Oil Based Paint, Add	0.09
		For Work >20', Add	0.29
		Note: Applied only to work area above 20'.	
		For Up To 100, Add	0.90
		For >100 To 250, Add	0.43
		For >250 To 500, Add	0.19
		For >2,500 To 5,000, Deduct	-0.07
		For >5,000 To 10,000, Deduct	-0.15
		For >10,000 To 20,000, Deduct	-0.22
		For >20,000, Deduct	-0.29

09 91 13 00-0085 Paint Exterior Wood Siding (09 91 13 00-0001)

09 91 13 00-0086 Paint Exterior Smooth Wood Siding (09 91 13 00-0085)

Note: Includes tongue and groove, beveled, drop or board and batten siding.



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0087 SF Paint Exterior Wood Smooth Siding, 1 Coat Primer, Brush Work.....	0.91	
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.19	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.60	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0088 SF Paint Exterior Wood Smooth Siding, 1 Coat Paint, Brush Work	0.97	
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.21	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.66	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.19	
09 91 13 00-0089 SF Paint Exterior Wood Smooth Siding, 2 Coats Paint, Brush Work.....	1.73	
For Oil Based Paint, Add	0.10	
For Work >20', Add	0.37	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.15	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.35	
09 91 13 00-0090 SF Paint Exterior Smooth Wood Siding, 1 Coat Primer, Brush/Roller Work.....	0.70	
For Oil Based Paint, Add	0.04	
For Work >20', Add	0.14	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.43	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0091 SF Paint Exterior Smooth Wood Siding, 1 Coat Paint, Brush/Roller Work.....	0.78	
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.16	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0092 SF Paint Exterior Smooth Wood Siding, 2 Coats Paint, Brush/Roller Work	1.45	
For Oil Based Paint, Add	0.09	
For Work >20', Add	0.29	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.91	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.29	
09 91 13 00-0093 SF Paint Exterior Smooth Wood Siding, 1 Coat Primer, Sprayed	0.50	
For Oil Based Paint, Add	0.03	
For Work >20', Add	0.09	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.28	
For >100 To 250, Add	0.14	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.10	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0094	SF		Paint Exterior Smooth Wood Siding, 1 Coat Paint, Sprayed.....	0.61	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.36	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0095	SF		Paint Exterior Smooth Wood Siding, 2 Coats Paint, Sprayed.....	0.99	
			For Oil Based Paint, Add	0.07	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0096			Paint Exterior Rough Wood Siding (09 91 13 00-0085)		
			Note: Includes shingles, shakes or rough sawn siding.		
09 91 13 00-0097	SF		Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding, 1 Coat Primer, Brush Work.....	1.43	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.32	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.98	
			For >100 To 250, Add	0.46	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.29	
09 91 13 00-0098	SF		Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding, 1 Coat Paint, Brush Work.....	1.45	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.33	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.02	
			For >100 To 250, Add	0.48	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.29	
09 91 13 00-0099	SF		Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding, 2 Coats Paint, Brush Work.....	2.69	
			For Oil Based Paint, Add	0.15	
			For Work >20', Add	0.61	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.87	
			For >100 To 250, Add	0.88	
			For >250 To 500, Add	0.38	
			For >2,500 To 5,000, Deduct	-0.13	
			For >5,000 To 10,000, Deduct	-0.27	
			For >10,000 To 20,000, Deduct	-0.40	
			For >20,000, Deduct	-0.54	
09 91 13 00-0100	SF		Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Primer, Brush/Roller Work.....	1.22	
			For Oil Based Paint, Add	0.07	
			For Work >20', Add	0.24	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.75	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0101	SF		Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Paint, Brush/Roller Work.....	1.32	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.26	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.83	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.26	



Finishes	09	2
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0102 SF Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 2 Coats Paint, Brush/Roller Work.....	2.43	
For Oil Based Paint, Add	0.15	
For Work >20', Add	0.48	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.50	
For >100 To 250, Add	0.72	
For >250 To 500, Add	0.31	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.24	
For >10,000 To 20,000, Deduct	-0.36	
For >20,000, Deduct	-0.49	
09 91 13 00-0103 SF Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Primer, Sprayed.....	0.80	
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.14	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0104 SF Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Paint, Sprayed.....	0.91	
For Oil Based Paint, Add	0.06	
For Work >20', Add	0.17	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0105 SF Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 2 Coats Paint, Sprayed.....	1.71	
For Oil Based Paint, Add	0.11	
For Work >20', Add	0.32	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.01	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.34	
09 91 13 00-0106 Paint Exterior Vinyl Siding (09 91 13 00-0001)	0.78	
09 91 13 00-0107 SF Paint Exterior Vinyl Siding, 1 Coat Primer, Brush Work.....	0.78	
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.16	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0108 SF Paint Exterior Vinyl Siding, 1 Coat Paint, Brush Work.....	0.86	
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.18	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0109 SF Paint Exterior Vinyl Siding, 2 Coats Paint, Brush Work.....	1.57	
For Oil Based Paint, Add	0.09	
For Work >20', Add	0.32	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.99	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.31	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0110	SF		Paint Exterior Vinyl Siding, 1 Coat Primer, Brush/Roller Work.....	0.69	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.13	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.42	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
09 91 13 00-0111	SF		Paint Exterior Vinyl Siding, 1 Coat Paint, Brush/Roller Work.....	0.69	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.13	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.42	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
09 91 13 00-0112	SF		Paint Exterior Vinyl Siding, 2 Coats Paint, Brush/Roller Work.....	1.28	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.24	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.76	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.26	
09 91 13 00-0113	SF		Paint Exterior Vinyl Siding, 1 Coat Primer, Sprayed.....	0.54	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.09	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.29	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
09 91 13 00-0114	SF		Paint Exterior Vinyl Siding, 1 Coat Paint, Sprayed.....	0.61	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.09	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.30	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0115	SF		Paint Exterior Vinyl Siding, 2 Coats Paint, Sprayed.....	1.19	
			For Oil Based Paint, Add	0.09	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0116			Paint Exterior Ceilings (09 91 13)		
09 91 13 00-0117			Paint Exterior Concrete Ceilings (09 91 13 00-0116)		
09 91 13 00-0118	SF		Paint Exterior Concrete Ceiling, 1 Coat Filler, Brush Work.....	0.84	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.07	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0119 SF Paint Exterior Concrete Ceiling, 1 Coat Paint, Brush Work.....	0.93	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.07	
For Work >20', Add	0.21	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0120 SF Paint Exterior Concrete Ceiling, 2 Coats Paint, Brush Work.....	1.64	
For Oil Based Paint, Add	0.09	
For Epoxy Paint, Add	0.13	
For Work >20', Add	0.37	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.13	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 13 00-0121 SF Paint Exterior Concrete Ceiling, 1 Coat Filler, Brush/Roller Work.....	0.63	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.06	
For Work >20', Add	0.13	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.41	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.13	
09 91 13 00-0122 SF Paint Exterior Concrete Ceiling, 1 Coat Paint, Brush/Roller Work.....	0.72	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.06	
For Work >20', Add	0.16	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0123 SF Paint Exterior Concrete Ceiling, 2 Coats Paint, Brush/Roller Work.....	1.32	
For Oil Based Paint, Add	0.07	
For Epoxy Paint, Add	0.11	
For Work >20', Add	0.29	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.89	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 13 00-0124 SF Paint Exterior Concrete Ceiling, 1 Coat Filler, Sprayed.....	0.46	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.06	
For Work >20', Add	0.09	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.27	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.09	
09 91 13 00-0125 SF Paint Exterior Concrete Ceiling, 1 Coat Paint, Sprayed.....	0.55	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.06	
For Work >20', Add	0.11	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	

09	Finishes
09 90	Painting And Coating
09 91	Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0126	SF		Paint Exterior Concrete Ceiling, 2 Coats Paint, Sprayed	0.88	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.10	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0127			Paint Exterior Wood Ceilings (09 91 13 00-0116)		
09 91 13 00-0128			Paint Exterior Smooth Wood Ceilings (09 91 13 00-0127)		
09 91 13 00-0129	SF		Paint Exterior Wood Smooth Ceiling, 1 Coat Primer, Brush Work	1.02	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.22	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0130	SF		Paint Exterior Wood Smooth Ceiling, 1 Coat Paint, Brush Work	1.07	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.24	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.73	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0131	SF		Paint Exterior Wood Smooth Ceiling, 2 Coats Paint, Brush Work	1.95	
			For Oil Based Paint, Add	0.11	
			For Work >20', Add	0.43	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.31	
			For >100 To 250, Add	0.62	
			For >250 To 500, Add	0.27	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 20,000, Deduct	-0.29	
			For >20,000, Deduct	-0.39	
09 91 13 00-0132	SF		Paint Exterior Smooth Wood Ceiling, 1 Coat Primer, Brush/Roller Work	0.80	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0133	SF		Paint Exterior Smooth Wood Ceiling, 1 Coat Paint, Brush/Roller Work	0.88	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0134	SF		Paint Exterior Smooth Wood Ceiling, 2 Coats Paint, Brush/Roller Work	1.56	
			For Oil Based Paint, Add	0.09	
			For Work >20', Add	0.32	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.00	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.23	
			For >20,000, Deduct	-0.31	



Finishes	09	9
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0135 SF Paint Exterior Smooth Wood Ceiling, 1 Coat Primer, Sprayed	0.57	
For Oil Based Paint, Add	0.03	
For Work >20', Add	0.11	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.36	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.11	
09 91 13 00-0136 SF Paint Exterior Smooth Wood Ceiling, 1 Coat Paint, Sprayed.....	0.57	
For Oil Based Paint, Add	0.03	
For Work >20', Add	0.11	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.36	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.11	
09 91 13 00-0137 SF Paint Exterior Smooth Wood Ceiling, 2 Coats Paint, Sprayed.....	1.04	
For Oil Based Paint, Add	0.06	
For Work >20', Add	0.20	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 13 00-0138 Paint Exterior Rough Wood Ceilings (09 91 13 00-0127)		
09 91 13 00-0139 SF Paint Exterior Wood Rough Ceiling, 1 Coat Primer, Brush Work.....	1.53	
For Oil Based Paint, Add	0.09	
For Work >20', Add	0.33	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.03	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 13 00-0140 SF Paint Exterior Wood Rough Ceiling, 1 Coat Paint, Brush Work.....	1.61	
For Oil Based Paint, Add	0.09	
For Work >20', Add	0.37	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.14	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.32	
09 91 13 00-0141 SF Paint Exterior Wood Rough Ceiling, 2 Coats Paint, Brush Work	2.79	
For Oil Based Paint, Add	0.15	
For Work >20', Add	0.64	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.94	
For >100 To 250, Add	0.91	
For >250 To 500, Add	0.39	
For >2,500 To 5,000, Deduct	-0.14	
For >5,000 To 10,000, Deduct	-0.28	
For >10,000 To 20,000, Deduct	-0.42	
For >20,000, Deduct	-0.56	
09 91 13 00-0142 SF Paint Exterior Rough Wood Ceiling, 1 Coat Primer, Brush/Roller Work	1.32	
For Oil Based Paint, Add	0.08	
For Work >20', Add	0.26	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.83	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	

09	Finishes
09 90	Painting And Coating
09 91	Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 91 13 00-0143	SF		Paint Exterior Rough Wood Ceiling, 1 Coat Paint, Brush/Roller Work.....	1.43	
			For Oil Based Paint, Add	0.09	
			For Work >20', Add	0.29	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.91	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.29	
09 91 13 00-0144	SF		Paint Exterior Rough Wood Ceiling, 2 Coats Paint, Brush/Roller Work.....	2.53	
			For Oil Based Paint, Add	0.15	
			For Work >20', Add	0.50	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.58	
			For >100 To 250, Add	0.75	
			For >250 To 500, Add	0.33	
			For >2,500 To 5,000, Deduct	-0.13	
			For >5,000 To 10,000, Deduct	-0.25	
			For >10,000 To 20,000, Deduct	-0.38	
			For >20,000, Deduct	-0.51	
09 91 13 00-0145	SF		Paint Exterior Rough Wood Ceiling, 1 Coat Primer, Sprayed.....	0.91	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91 13 00-0146	SF		Paint Exterior Rough Wood Ceiling, 1 Coat Paint, Sprayed.....	1.02	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.20	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0147	SF		Paint Exterior Rough Wood Ceiling, 2 Coats Paint, Sprayed.....	1.82	
			For Oil Based Paint, Add	0.11	
			For Work >20', Add	0.34	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.10	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.27	
			For >20,000, Deduct	-0.36	

09 91 13 00-0148 Paint Exterior Metal Ceilings (09 91 13 00-0116)

09 91 13 00-0149 Paint Exterior Galvanized Ceilings (09 91 13 00-0148)

			Note: Linseed oil or acrylic latex paint.		
09 91 13 00-0150	SF		Paint Exterior Galvanized Ceiling, 1 Coat Primer, Brush Work.....	0.94	
			For Work >20', Add	0.21	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 13 00-0151	SF		Paint Exterior Galvanized Ceiling, 1 Coat Paint, Brush Work.....	1.04	
			For Work >20', Add	0.24	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.73	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	



Finishes	09	09
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0152 SF Paint Exterior Galvanized Ceiling, 2 Coats Paint, Brush Work	1.89	
For Work >20', Add	0.43	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.30	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.38	
09 91 13 00-0153 SF Paint Exterior Galvanized Ceiling, 1 Coat Primer, Brush/Roller Work	0.72	
For Work >20', Add	0.16	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0154 SF Paint Exterior Galvanized Ceiling, 1 Coat Paint, Brush/Roller Work	0.82	
For Work >20', Add	0.19	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0155 SF Paint Exterior Galvanized Ceiling, 2 Coats Paint, Brush/Roller Work	1.43	
For Work >20', Add	0.32	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.98	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.29	
09 91 13 00-0156 SF Paint Exterior Galvanized Ceiling, 1 Coat Primer, Sprayed	0.56	
For Work >20', Add	0.11	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 13 00-0157 SF Paint Exterior Galvanized Ceiling, 1 Coat Paint, Sprayed	0.67	
For Work >20', Add	0.14	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	
09 91 13 00-0158 SF Paint Exterior Galvanized Ceiling, 2 Coats Paint, Sprayed	1.01	
For Work >20', Add	0.20	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0159 Paint Exterior Aluminum And Aluminum Alloy Ceilings (09 91 13 00-0148)		
Note: Alkyd enamel paint.		
09 91 13 00-0160 SF Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Brush Work	0.94	
For Work >20', Add	0.21	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0161	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Brush Work.....	1.04	
			<i>For Work >20', Add</i>	0.24	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.73	
			<i>For >100 To 250, Add</i>	0.34	
			<i>For >250 To 500, Add</i>	0.15	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.21	
09 91 13 00-0162	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Brush Work.....	1.89	
			<i>For Work >20', Add</i>	0.43	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	1.30	
			<i>For >100 To 250, Add</i>	0.61	
			<i>For >250 To 500, Add</i>	0.26	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.19	
			<i>For >10,000 To 20,000, Deduct</i>	-0.28	
			<i>For >20,000, Deduct</i>	-0.38	
09 91 13 00-0163	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Brush/Roller Work.....	0.75	
			<i>For Work >20', Add</i>	0.16	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.50	
			<i>For >100 To 250, Add</i>	0.24	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.15	
09 91 13 00-0164	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Brush/Roller Work.....	0.85	
			<i>For Work >20', Add</i>	0.19	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.57	
			<i>For >100 To 250, Add</i>	0.27	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.09	
			<i>For >10,000 To 20,000, Deduct</i>	-0.13	
			<i>For >20,000, Deduct</i>	-0.17	
09 91 13 00-0165	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Brush/Roller Work.....	1.49	
			<i>For Work >20', Add</i>	0.32	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.99	
			<i>For >100 To 250, Add</i>	0.47	
			<i>For >250 To 500, Add</i>	0.20	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.15	
			<i>For >10,000 To 20,000, Deduct</i>	-0.22	
			<i>For >20,000, Deduct</i>	-0.30	
09 91 13 00-0166	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Sprayed.....	0.56	
			<i>For Work >20', Add</i>	0.11	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.35	
			<i>For >100 To 250, Add</i>	0.17	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.08	
			<i>For >20,000, Deduct</i>	-0.11	
09 91 13 00-0167	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Sprayed.....	0.56	
			<i>For Work >20', Add</i>	0.11	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.35	
			<i>For >100 To 250, Add</i>	0.17	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.08	
			<i>For >20,000, Deduct</i>	-0.11	
09 91 13 00-0168	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Sprayed.....	1.01	
			<i>For Work >20', Add</i>	0.20	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.63	
			<i>For >100 To 250, Add</i>	0.30	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.15	
			<i>For >20,000, Deduct</i>	-0.20	

09 91 13 00-0169 Paint Exterior Corrugated Metal Ceilings (09 91 13 00-0148)



Finishes	09	9
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0170 SF Paint Exterior Corrugated Metal Ceiling, 1 Coat Primer, Sprayed.....	0.62	
For Work >20', Add	0.12	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.39	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0171 SF Paint Exterior Corrugated Metal Ceiling, 1 Coat Paint, Sprayed.....	0.74	
For Work >20', Add	0.15	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0172 SF Paint Exterior Corrugated Metal Ceiling, 2 Coats Paint, Sprayed.....	1.30	
For Work >20', Add	0.26	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.83	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 13 00-0173 Paint Exterior Floors (09 91 13)		
09 91 13 00-0174 Paint Exterior Concrete Floors (09 91 13 00-0173)		
09 91 13 00-0175 SF Paint Exterior Concrete Floors And Decks, 1 Coat Primer, Brush Work.....	0.63	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.41	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.13	
09 91 13 00-0176 SF Paint Exterior Concrete Floors And Decks, 1 Coat Paint, Brush Work.....	0.72	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0177 SF Paint Exterior Concrete Floors And Decks, 2 Coats Paint, Brush Work.....	1.32	
For Oil Based Paint, Add	0.07	
For Epoxy Paint, Add	0.11	
For Up To 100, Add	0.89	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 13 00-0178 SF Paint Exterior Concrete Floors And Decks, 1 Coat Primer, Brush/Roller Work.....	0.51	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.32	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.10	
09 91 13 00-0179 SF Paint Exterior Concrete Floors And Decks, 1 Coat Paint, Brush/Roller Work.....	0.61	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.05	
For Up To 100, Add	0.41	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0180 SF Paint Exterior Concrete Floors And Decks, 2 Coats Paint, Brush/Roller Work	0.99	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.10	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0181 SF Paint Exterior Concrete Floors And Decks, 1 Coat Primer, Sprayed	0.35	
For Oil Based Paint, Add	0.02	
For Epoxy Paint, Add	0.05	
For Up To 100, Add	0.19	
For >100 To 250, Add	0.09	
For >250 To 500, Add	0.04	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 20,000, Deduct	-0.05	
For >20,000, Deduct	-0.07	
09 91 13 00-0182 SF Paint Exterior Concrete Floors And Decks, 1 Coat Paint, Sprayed.....	0.44	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.05	
For Up To 100, Add	0.27	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.09	
09 91 13 00-0183 SF Paint Exterior Concrete Floors And Decks, 2 Coats Paint, Sprayed.....	0.77	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.10	
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.15	
09 91 13 00-0184 SF Paint Exterior Concrete Floors And Decks, 1 Coat Non Slip Paint, Brush/Roller Work.....	1.41	
For Up To 100, Add	0.53	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 13 00-0185 SF Paint Exterior Concrete Floors And Decks, 1 Coat Anti-Slip, Single Component Epoxy Coating, Brush/Roller Work	3.10	
For Up To 100, Add	0.78	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.16	
For >5,000 To 10,000, Deduct	-0.31	
For >10,000 To 20,000, Deduct	-0.47	
For >20,000, Deduct	-0.62	
09 91 13 00-0186 SF Paint Exterior Concrete Floors And Decks, 1 Coat Anti-Slip High Performance Epoxy Coating, Brush/Roller Work.....	3.81	
For Up To 100, Add	0.89	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.19	
For >5,000 To 10,000, Deduct	-0.38	
For >10,000 To 20,000, Deduct	-0.57	
For >20,000, Deduct	-0.76	
09 91 13 00-0187 Paint Exterior Wood Floors (09 91 13 00-0173)		
09 91 13 00-0188 SF Paint Exterior Wood Floors And Decks, 1 Coat Primer, Brush Work	0.78	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0189 SF Paint Exterior Wood Floors And Decks, 1 Coat Paint, Brush Work.....	0.86	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	



Finishes	09	09
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0190 SF Paint Exterior Wood Floors And Decks, 2 Coats Paint, Brush Work.....	1.62	
For Oil Based Paint, Add	0.09	
For Up To 100, Add	1.07	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.32	
09 91 13 00-0191 SF Paint Exterior Wood Floors And Decks, 1 Coat Primer, Brush/Roller Work.....	0.70	
For Oil Based Paint, Add	0.04	
For Up To 100, Add	0.43	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0192 SF Paint Exterior Wood Floors And Decks, 1 Coat Paint, Brush/Roller Work.....	0.78	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0193 SF Paint Exterior Wood Floors And Decks, 2 Coats Paint, Brush/Roller Work.....	1.24	
For Oil Based Paint, Add	0.08	
For Up To 100, Add	0.76	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 13 00-0194 SF Paint Exterior Wood Floors And Decks, 1 Coat Primer, Sprayed.....	0.46	
For Oil Based Paint, Add	0.03	
For Up To 100, Add	0.27	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.09	
09 91 13 00-0195 SF Paint Exterior Wood Floors And Decks, 1 Coat Paint, Sprayed.....	0.57	
For Oil Based Paint, Add	0.03	
For Up To 100, Add	0.36	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.11	
09 91 13 00-0196 SF Paint Exterior Wood Floors And Decks, 2 Coats Paint, Sprayed.....	0.93	
For Oil Based Paint, Add	0.06	
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0197 SF Paint Exterior Wood Floors And Decks, 1 Coat Non Slip Paint, Brush Work.....	1.52	
For Up To 100, Add	0.61	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.30	
09 91 13 00-0198 SF Paint Exterior Wood Floors And Decks, 1 Coat Non Slip Epoxy Coating, Brush Work.....	3.92	
For Up To 100, Add	0.97	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.20	
For >5,000 To 10,000, Deduct	-0.39	
For >10,000 To 20,000, Deduct	-0.59	
For >20,000, Deduct	-0.78	
09 91 13 00-0199 Paint Site Work <small>(09 91 13)</small>		
Note: Tasks can be used for exterior or interior applications.		
09 91 13 00-0200 Paint Structural Steel <small>(09 91 13 00-0199)</small>		
09 91 13 00-0201 Paint Structural Steel, Brush Work <small>(09 91 13 00-0200)</small>		

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0202 SF Paint Structural Steel, 1 Field Coat Primer, Brush/Roller Work	0.81	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For Epoxy Paint, Add	0.06	
09 91 13 00-0203 SF Paint Structural Steel, 1 Field Coat Paint, Brush/Roller Work.....	0.71	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For Epoxy Paint, Add	0.05	
09 91 13 00-0204 Paint Structural Steel, Spray Work (09 91 13 00-0200)		
09 91 13 00-0205 SF Paint Structural Steel, 1 Field Coat Primer, Spray Work.....	0.52	
For Electrostatic Painting, Add	0.06	
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For Epoxy Paint, Add	0.04	
09 91 13 00-0206 SF Paint Structural Steel, 1 Field Coat Paint, Spray Work.....	0.41	
For Electrostatic Painting, Add	0.05	
For Up To 100, Add	0.27	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	
For Epoxy Paint, Add	0.04	
09 91 13 00-0207 Paint Metal Decking, Beams And Bar Joist (09 91 13 00-0200)		
09 91 13 00-0208 SF Paint Exposed Metal Decking, 1 Coat Primer, Sprayed.....	0.60	
For Up To 100, Add	0.41	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.08	
For Epoxy Paint, Add	0.05	
09 91 13 00-0209 SF Paint Exposed Metal Decking, 1 Coat Paint, Sprayed	0.60	
For Up To 100, Add	0.41	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.08	
For Epoxy Paint, Add	0.05	
09 91 13 00-0210 SF Paint Exposed Metal Decking, 2 Coats Paint, Sprayed	0.99	
For Up To 100, Add	0.66	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For Epoxy Paint, Add	0.09	
09 91 13 00-0211 SF Paint Metal Beams And Bar Joists, 1 Coat Primer, Brush/Roller Work.....	0.93	
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For Epoxy Paint, Add	0.08	
09 91 13 00-0212 SF Paint Metal Beams And Bar Joists, 1 Coat Paint, Brush/Roller Work.....	0.93	
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For Epoxy Paint, Add	0.08	
09 91 13 00-0213 SF Paint Metal Beams And Bar Joists, 2 Coats Paint, Brush/Roller Work	1.73	
For Up To 100, Add	1.17	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
For Epoxy Paint, Add	0.15	
09 91 13 00-0214 SF Paint Metal Beams And Bar Joists, 1 Coat Primer, Sprayed	0.72	
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For Epoxy Paint, Add	0.06	
09 91 13 00-0215 SF Paint Metal Beams And Bar Joists, 1 Coat Paint, Sprayed.....	0.72	
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For Epoxy Paint, Add	0.06	
09 91 13 00-0216 SF Paint Metal Beams And Bar Joists, 2 Coats Paint, Sprayed.....	1.18	
For Up To 100, Add	0.78	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For Epoxy Paint, Add	0.11	
09 91 13 00-0217 Paint Steel Pipes (09 91 13 00-0199)		
Note: Includes pipe, tubes, rails, conduit, etc.		
09 91 13 00-0218 LF Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, 1 Coat Primer.....	1.41	
For Electrostatic Painting, Add	0.15	
For Epoxy Paint, Add	0.10	
09 91 13 00-0219 LF Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, 1 Coat Primer.....	1.58	
For Electrostatic Painting, Add	0.17	
For Epoxy Paint, Add	0.11	



Finishes	09	9
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0220 LF Paint Steel Pipes 4" Diameter, 1 Coat Primer.....	1.78	
For Electrostatic Painting, Add	0.20	
For Epoxy Paint, Add	0.13	
09 91 13 00-0221 LF Paint Steel Pipes 6" To 8" Diameter, 1 Coat Primer	2.23	
For Electrostatic Painting, Add	0.25	
For Epoxy Paint, Add	0.16	
09 91 13 00-0222 LF Paint Steel Pipes 10" To 12" Diameter 1 Coat Primer	2.84	
For Electrostatic Painting, Add	0.31	
For Epoxy Paint, Add	0.20	
09 91 13 00-0223 LF Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, 1 Coat Paint	1.41	
For Electrostatic Painting, Add	0.15	
For Epoxy Paint, Add	0.10	
09 91 13 00-0224 LF Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, 1 Coat Paint.....	1.58	
For Electrostatic Painting, Add	0.17	
For Epoxy Paint, Add	0.11	
09 91 13 00-0225 LF Paint Steel Pipes 4" Diameter, 1 Coat Paint.....	1.78	
For Electrostatic Painting, Add	0.20	
For Epoxy Paint, Add	0.13	
09 91 13 00-0226 LF Paint Steel Pipes 6" To 8" Diameter, 1 Coat Paint.....	2.23	
For Electrostatic Painting, Add	0.25	
For Epoxy Paint, Add	0.16	
09 91 13 00-0227 LF Paint Steel Pipes 10" To 12" Diameter 1 Coat Paint.....	2.84	
For Electrostatic Painting, Add	0.31	
For Epoxy Paint, Add	0.20	
09 91 13 00-0228 LF Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, 2 Coats	2.77	
For Electrostatic Painting, Add	0.31	
For Epoxy Paint, Add	0.21	
09 91 13 00-0229 LF Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, 2 Coats	3.16	
For Electrostatic Painting, Add	0.35	
For Epoxy Paint, Add	0.22	
09 91 13 00-0230 LF Paint Steel Pipes 4" Diameter, 2 Coats	3.40	
For Electrostatic Painting, Add	0.38	
For Epoxy Paint, Add	0.25	
09 91 13 00-0231 LF Paint Steel Pipes 6" To 8" Diameter, 2 Coats	4.31	
For Electrostatic Painting, Add	0.48	
For Epoxy Paint, Add	0.31	
09 91 13 00-0232 LF Paint Steel Pipes 10" To 12" Diameter, 2 Coats	5.28	
For Electrostatic Painting, Add	0.59	
For Epoxy Paint, Add	0.38	
09 91 13 00-0233 EA Paint Exposed Single Or Double Gang, Outlet Box, 1 Coat Paint	7.72	
For Electrostatic Painting, Add	0.79	
For Epoxy Paint, Add	0.42	
09 91 13 00-0234 Paint Fencing <small>(09 91 13 00-0199)</small>		
Note: Per side of fence. Based on gross fence area (length of fence x height of fence).		
09 91 13 00-0235 SF Paint Existing Chain Link Fence, 1 Coat Paint, Brush/Roller.....	0.69	
For Epoxy Paint, Add	0.05	
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
09 91 13 00-0236 SF Paint Existing Chain Link Fence, 2 Coats Paint, Brush/Roller	1.28	
For Epoxy Paint, Add	0.10	
For Up To 100, Add	0.89	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
09 91 13 00-0237 SF Paint Existing Chain Link Fence, 1 Coat Paint, Sprayed	0.52	
For Epoxy Paint, Add	0.05	
For Electrostatic Painting, Add	0.06	
For Up To 100, Add	0.35	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
09 91 13 00-0238 SF Paint Existing Chain Link Fence, 2 Coats Paint, Sprayed	0.97	
For Epoxy Paint, Add	0.09	
For Electrostatic Painting, Add	0.12	
For Up To 100, Add	0.64	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
09 91 13 00-0239 SF Paint Wrought Iron Fence, 1 Coat Primer, Brush/Roller	0.60	
For Epoxy Paint, Add	0.05	
For Up To 100, Add	0.41	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
09 91 13 00-0240 SF Paint Wrought Iron Fence, 1 Coat, Brush/Roller.....	0.58	
For Epoxy Paint, Add	0.04	
For Up To 100, Add	0.41	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
09 91 13 00-0241 SF Paint Wrought Iron Fence, Each Additional Coat, Brush/Roller.....	0.38	
For Epoxy Paint, Add	0.03	
For Up To 100, Add	0.26	
For >100 To 250, Add	0.12	
For >250 To 500, Add	0.05	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0242 SF Paint Picket Fence, 1 Coat Primer, Brush/Roller	0.91	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
09 91 13 00-0243 SF Paint Picket Fence, 1 Coat, Brush/Roller	0.91	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
09 91 13 00-0244 SF Paint Picket Fence, Each Additional Coat, Brush/Roller	0.64	
For Epoxy Paint, Add	0.05	
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
09 91 13 00-0245 SF Paint Wood Fences 1 Coat, Brush/Roller	0.63	
For Up To 100, Add	0.41	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.08	
09 91 13 00-0246 SF Paint Wood Fences 2 Coats, Brush/Roller	1.12	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
09 91 13 00-0247 SF Paint Wood Fences 1 Coat, Sprayed	0.44	
For Up To 100, Add	0.27	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	
09 91 13 00-0248 SF Paint Wood Fences 2 Coats, Sprayed	0.82	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
09 91 13 00-0249 Paint Metal Louvers (09 91 13 00-0199)		
09 91 13 00-0250 SF Paint Ventilation Louver, SF Of Opening Area, 1 Coat Primer, Brush/Roller Work	1.20	
For Electrostatic Painting, Add	0.13	
09 91 13 00-0251 SF Paint Ventilation Louver, SF Of Opening Area, 1 Coat Alkyd, Brush/Roller Work	1.20	
For Electrostatic Painting, Add	0.13	
09 91 13 00-0252 SF Paint Ventilation Louver, SF Of Opening Area, 2 Coats Alkyd, Brush/Roller Work	2.45	
For Electrostatic Painting, Add	0.27	
09 91 13 00-0253 Paint Ladders (09 91 13 00-0199)		
09 91 13 00-0254 LF Paint Ladders, 1 Coat Alkyd Primer, Brush/Roller Work	3.48	
For Epoxy Paint, Add	0.19	
09 91 13 00-0255 LF Paint Ladders, 1 Coat Alkyd Enamel, Brush/Roller Work	3.89	
For Epoxy Paint, Add	0.21	
09 91 13 00-0256 LF Paint Ladders, 2 Coats Alkyd Enamel, Brush/Roller Work	7.72	
For Epoxy Paint, Add	0.40	
09 91 13 00-0257 Paint Handrails (09 91 13 00-0199)		
09 91 13 00-0258 LF Paint Hand Rail And Bracket, 1 Rail, 1 Coat Alkyd Primer, Brush/Roller Work	1.34	
For Epoxy Paint, Add	0.08	
09 91 13 00-0259 LF Paint Hand Rail And Bracket, 1 Rail, 1 Coat Alkyd Enamel, Brush/Roller Work	1.49	
For Epoxy Paint, Add	0.09	
09 91 13 00-0260 LF Paint Hand Rail And Bracket, 1 Rail, 2 Coats Alkyd Enamel, Brush/Roller Work	2.50	
For Epoxy Paint, Add	0.14	
09 91 13 00-0261 LF Paint Pipe Rail And Pickets, 1 Rail, 1 Coat Alkyd Primer, Brush/Roller Work	2.01	
For Epoxy Paint, Add	0.12	
09 91 13 00-0262 LF Paint Pipe Rail And Pickets, 1 Rail, 1 Coat Alkyd Enamel, Brush/Roller Work	2.25	
For Epoxy Paint, Add	0.13	
09 91 13 00-0263 LF Paint Pipe Rail And Pickets, 1 Rail, 2 Coats Alkyd Enamel, Brush/Roller Work	3.98	
For Epoxy Paint, Add	0.23	
09 91 13 00-0264 LF Paint Pipe Rail And Pickets, 2 Rails, 1 Coat Alkyd Primer, Brush/Roller Work	2.21	
For Epoxy Paint, Add	0.13	
09 91 13 00-0265 LF Paint Pipe Rail And Pickets, 2 Rails, 1 Coat Alkyd Enamel, Brush/Roller Work	2.47	
For Epoxy Paint, Add	0.14	
09 91 13 00-0266 LF Paint Pipe Rail And Pickets, 2 Rails, 2 Coats Alkyd Enamel, Brush/Roller Work	4.28	
For Epoxy Paint, Add	0.24	
09 91 13 00-0267 LF Paint Balustrades, 1 Coat Alkyd Primer, Brush/Roller Work	1.35	
For Epoxy Paint, Add	0.10	
09 91 13 00-0268 LF Paint Balustrades, 1 Coat Alkyd Enamel, Brush/Roller Work	1.50	
For Epoxy Paint, Add	0.11	
09 91 13 00-0269 LF Paint Balustrades, 2 Coats Alkyd Enamel, Brush/Roller Work	2.70	
For Epoxy Paint, Add	0.20	
09 91 13 00-0270 Paint Grating (09 91 13 00-0199)		
09 91 13 00-0271 SF Paint Gratings And Frames, 1 Coat Primer, Brush/Roller Work	2.50	
For Epoxy Paint, Add	0.14	
09 91 13 00-0272 SF Paint Gratings And Frames, 1 Coat Paint, Brush/Roller Work	2.51	
For Epoxy Paint, Add	0.14	



Finishes	09	
Painting And Coating	09 90	9
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0273 SF Paint Gratings And Frames, 2 Coats Paint, Brush/Roller Work <i>For Epoxy Paint, Add</i>	3.72	0.22
09 91 13 00-0274 Other Site Work Painting (09 91 13 00-0199)		
09 91 13 00-0275 Paint Flagpoles (09 91 13 00-0274)		
09 91 13 00-0276 EA Paint Steel Flagpole, 20' High, 1 Coat Paint	164.32	
09 91 13 00-0277 EA Paint Steel Flagpole, 30' High, 1 Coat Paint	220.01	
09 91 13 00-0278 EA Paint Steel Flagpole, 40' High, 1 Coat Paint	275.74	
09 91 13 00-0279 EA Paint Steel Flagpole, 50' High, 1 Coat Paint	331.46	
09 91 13 00-0280 EA Paint Steel Flagpole, 70' High, 1 Coat Paint	430.49	
09 91 13 00-0281 EA Paint Steel Flagpole, 80' High, 1 Coat Paint	484.66	
09 91 13 00-0282 EA Paint Steel Flagpole, 90' High, 1 Coat Paint	538.85	
09 91 13 00-0283 Paint Lattice Or Trellis (09 91 13 00-0274)		
09 91 13 00-0284 SF Paint Wood Lattice Or Trellis 1 Coat, Spray Per Side <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	1.20	0.84 0.40 0.17
09 91 13 00-0285 SF Paint Wood Lattice Or Trellis 2 Coats, Spray Per Side <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	2.20	1.53 0.72 0.31
09 91 13 00-0286 Equipment And Tanks (09 91 13 00-0199)		
09 91 13 00-0287 Valves, Primer And Finish Coats (09 91 13 00-0286)		
09 91 13 00-0288 EA Prime And Paint 4" And Smaller Valve	23.41	
09 91 13 00-0289 EA Prime And Paint 6" To 10" Valve	28.33	
09 91 13 00-0290 EA Prime And Paint 12" To 18" Valve	37.57	
09 91 13 00-0291 EA Prime And Paint 20" To 24" Valve	51.13	
09 91 13 00-0292 EA Prime And Paint >24" To 36" Valve	69.61	
09 91 13 00-0293 EA Prime And Paint >36" To 48" Valve	93.63	
09 91 13 00-0294 Pumps And Motors. Primer And Finish Coats (09 91 13 00-0286)		
09 91 13 00-0295 EA Prime And Paint Pump Under 1 HP	70.83	
09 91 13 00-0296 EA Prime And Paint Pump, 1 HP To 5 HP	91.13	
09 91 13 00-0297 EA Prime And Paint Pump, >5 HP To 10 HP	107.12	
09 91 13 00-0298 EA Prime And Paint Pump, >10 HP To 20 HP	118.19	
09 91 13 00-0299 EA Prime And Paint Pump, >20 HP To 30 HP	137.89	
09 91 13 00-0300 EA Prime And Paint Pump, >30 HP To 50 HP	157.60	
09 91 13 00-0301 EA Prime And Paint Pump, >50 HP To 75 HP	172.99	
09 91 13 00-0302 EA Prime And Paint Pump, >75 HP	197.01	
09 91 13 00-0303 Storage Tanks (09 91 13 00-0286)		
09 91 13 00-0304 SF Paint Storage Tank, Exterior Surface, 1 Coat Primer, Roller	0.83	
09 91 13 00-0305 SF Paint Storage Tank, Exterior Surface, 1 Coat Paint, Roller	1.03	
09 91 13 00-0306 SF Paint Storage Tank, Exterior Surface, 2 Coats Paint, Roller	1.94	
09 91 13 00-0307 SF Paint Storage Tank, Interior Surface, 1 Coat Primer, Roller	1.18	
09 91 13 00-0308 SF Paint Storage Tank, Interior Surface, 1 Coat Paint, Roller	1.44	
09 91 13 00-0309 SF Paint Storage Tank, Interior Surface, 2 Coats Paint, Roller	2.74	
09 91 13 00-0310 SF Paint Storage Tank, Exterior Surface, 1 Coat Primer, Spray	0.76	
09 91 13 00-0311 SF Paint Storage Tank, Exterior Surface, 1 Coat Paint, Spray	0.84	
09 91 13 00-0312 SF Paint Storage Tank, Exterior Surface, 2 Coats Paint, Spray	1.60	
09 91 13 00-0313 SF Paint Storage Tank, Interior Surface, 1 Coat Primer, Spray	0.91	
09 91 13 00-0314 SF Paint Storage Tank, Interior Surface, 1 Coat Paint, Spray	1.12	
09 91 13 00-0315 SF Paint Storage Tank, Interior Surface, 2 Coats Paint, Spray	2.15	
09 91 13 00-0316 Paint Exterior Stairs (09 91 13)		
09 91 13 00-0317 Paint Exterior Concrete Stairs (09 91 13 00-0316)		
09 91 13 00-0318 RSR Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work	15.25	
09 91 13 00-0319 RSR Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work	15.25	
09 91 13 00-0320 RSR Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Non Slip Paint, Brush/Roller Work	18.59	
09 91 13 00-0321 RSR Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Non Slip Epoxy Coating, Brush/Roller Work	28.20	
09 91 13 00-0322 RSR Paint Exterior Concrete Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work	30.49	
09 91 13 00-0323 Paint Exterior Metal Stairs (09 91 13 00-0316)		
09 91 13 00-0324 RSR Paint Exterior Metal Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work <i>For Oil Based Paint, Add</i>	7.67	0.40
09 91 13 00-0325 RSR Paint Exterior Metal Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work <i>For Oil Based Paint, Add</i>	7.67	0.40
09 91 13 00-0326 RSR Paint Exterior Metal Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work <i>For Oil Based Paint, Add</i>	15.37	0.79

09 Finishes**09 90 Painting And Coating****09 91 Painting**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

09 91 13 00-0327	Paint Exterior Wood Stairs <small>(09 91 13 00-0316)</small>	
09 91 13 00-0328	RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work	7.79
09 91 13 00-0329	RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work	7.79
09 91 13 00-0330	RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Non Slip Paint, Brush/Roller Work	11.13
09 91 13 00-0331	RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Non Slip Epoxy Coating, Brush/Roller Work	20.74
09 91 13 00-0332	RSR Paint Exterior Wood Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work	15.59

09 91 13 00-0333	Paint Exterior Stair Nosing <small>(09 91 13 00-0316)</small>	
09 91 13 00-0334	LF Paint Exterior Yellow Stair Safety Strip, Up To 2", Non Slip, Brush Work	1.50

09 91 13 00-0335 **Paint Exterior Trim** (09 91 13)

09 91 13 00-0336	Paint Exterior Metal Trim And Gutters <small>(09 91 13 00-0335)</small>	
09 91 13 00-0337	SF Paint Exterior Exposed Metal Trim, 1 Coat Primer, Brush Work	1.02
09 91 13 00-0338	SF Paint Exterior Exposed Metal Trim, 1 Coat Paint, Brush Work	1.02
09 91 13 00-0339	SF Paint Exterior Exposed Metal Trim, 2 Coats Paint, Brush Work	1.84
09 91 13 00-0340	SF Paint Exterior Metal Trim, 1 Coat Primer, Brush/Roller Work	0.81
09 91 13 00-0341	SF Paint Exterior Metal Trim, 1 Coat Paint, Brush/Roller Work	0.92
09 91 13 00-0342	SF Paint Exterior Metal Trim, 2 Coats Paint, Brush/Roller Work	1.63
09 91 13 00-0343	LF Paint Exterior Gutter And Downspout, 1 Coat Paint, Brush Work	1.50
09 91 13 00-0344	LF Paint Exterior Gutter And Downspout, 2 Coats Paint, Brush Work	2.10

09 91 13 00-0345 **Paint Exterior Wood Trim** (09 91 13 00-0335)

09 91 13 00-0346	SF Paint Exterior Wood Trim, 1 Coat Primer, Brush Work	1.43
	<i>For Oil Based Paint, Add</i>	0.08
09 91 13 00-0347	SF Paint Exterior Wood Trim, 1 Coat Paint, Brush Work	1.56
	<i>For Oil Based Paint, Add</i>	0.09
09 91 13 00-0348	SF Paint Exterior Wood Trim, 2 Coats Paint, Brush Work	2.81
	<i>For Oil Based Paint, Add</i>	0.16
09 91 13 00-0349	SF Paint Exterior Wood Trim, 1 Coat Primer, Brush/Roller Work	1.12
	<i>For Oil Based Paint, Add</i>	0.07
09 91 13 00-0350	SF Paint Exterior Wood Trim, 1 Coat Paint, Brush/Roller Work	1.25
	<i>For Oil Based Paint, Add</i>	0.07
09 91 13 00-0351	SF Paint Exterior Wood Trim, 2 Coats Paint, Brush/Roller Work	2.31
	<i>For Oil Based Paint, Add</i>	0.14

09 91 13 00-0352 **Paint Exterior Miscellaneous Metal Surfaces** (09 91 13)

09 91 13 00-0353	SF Paint Exterior Miscellaneous Metal Surfaces, 1 Coat Alkyd Primer, Brush/Roller Work	1.08
	<i>For Epoxy Paint, Add</i>	0.08
	<i>For Electrostatic Painting, Add</i>	0.12
09 91 13 00-0354	SF Paint Exterior Miscellaneous Metal Surfaces, 1 Coat Alkyd Enamel, Brush/Roller Work	1.04
	<i>For Epoxy Paint, Add</i>	0.07
	<i>For Electrostatic Painting, Add</i>	0.11
09 91 13 00-0355	SF Paint Exterior Miscellaneous Metal Surfaces, 2 Coats Alkyd Enamel, Brush/Roller Work	2.10
	<i>For Epoxy Paint, Add</i>	0.15
	<i>For Electrostatic Painting, Add</i>	0.23

09 91 33 **Painting Materials** (09 91)

Note: Paint per gallon for owners to obtain extra paint. Not to be used in conjunction with other painting tasks.

09 91 33 00-0001	Primer <small>(09 91 33)</small>	
09 91 33 00-0002	GAL Alkyd Primer/Sealer, Interior, 500 SF Per Gallon	16.05
09 91 33 00-0003	GAL Alkyd Wood Primer, Exterior, 400 SF Per Gallon	23.49
09 91 33 00-0004	GAL Prime Coat Oil Wood Primer, 310 SF Per Gallon	29.79
09 91 33 00-0005	GAL Catalyzed Epoxy Primer, Two Component Type, 425 SF Per Gallon	36.73
09 91 33 00-0006	EA Cement Base Primer, 25 LB Sack	24.57
09 91 33 00-0007	GAL Alkali Resistant Concrete And Masonry Primer, Exterior, 225 SF Per Gallon	37.88
09 91 33 00-0008	GAL Alkali Resistant Concrete And Masonry Primer, Interior, 225 SF Per Gallon	30.40
09 91 33 00-0009	GAL Acrylic Latex Primer, Flat Exterior, Fast Drying Wood Undercoat And Back Primer, 400 SF Per Gallon	23.49
09 91 33 00-0010	GAL Acrylic (Vinyl Acrylic) Block Filler, 50 SF Per Gallon	21.34
09 91 33 00-0011	GAL Acrylic (Vinyl Acrylic) Rust Inhibiting Metal, Primer - 500 SF Per Gallon: Paint - 260 SF Per Gallon	37.62
09 91 33 00-0012	GAL Acrylic Heavy Duty Wall Primer/Sealer, Low Odor Type, Alkali-Resistant, 800 SF Per Gallon	31.32
09 91 33 00-0013	GAL Acrylic (Vinyl Acrylic) Undercoat, All Purpose, Interior/Exterior, 500 SF Per Gallon	31.32
09 91 33 00-0014	GAL Latex Wood Primer, Exterior, 300 SF Per Gallon	35.32
09 91 33 00-0015	GAL Linseed (Oil Base) Primer, Exterior/Interior, 300 SF Per Gallon	23.03
09 91 33 00-0016	GAL Red Alkyd Primer, 500 SF Per Gallon	27.47
09 91 33 00-0017	GAL Wood Sealer/Primer, Interior, Clear, 600 SF Per Gallon	24.57
09 91 33 00-0018	GAL Zinc Chromate Primer, 300 SF Per Gallon	19.65
09 91 33 00-0019	GAL Zinc Dust/Zinc Oxide Primer, 300 SF Per Gallon	50.83
09 91 33 00-0020	GAL Stain Killer, Alcohol Base	31.69
09 91 33 00-0021	GAL Sealer, Primer Kilz, 400 SF Per Gallon	35.76

09 91 33 00-0022 **Paint** (09 91 33)



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 33 00-0023	GAL Aluminum Fiber Roof Coat On Composition Roof, 50 SF Per Gallon.....	17.20	
09 91 33 00-0024	GAL Acrylic Urethane Sealer	85.27	
09 91 33 00-0025	GAL Asphalt-Fiber Roof And Foundation Coating, Solvent Type	9.21	
	Note: 75 SF per gallon on roof or concrete, 100 SF per gallon on metal.		
09 91 33 00-0026	GAL Concrete Enamel Epoxy, 350 SF Per Gallon.....	53.28	
09 91 33 00-0027	GAL Concrete Acrylic Sealer, 400 SF Per Gallon	27.95	
09 91 33 00-0028	GAL Driveway Coating, Tar Emulsion, 120 SF Per Gallon	9.21	
09 91 33 00-0029	GAL Driveway Coating, Acrylic Latex, 250 SF Per Gallon.....	13.97	
09 91 33 00-0030	GAL Exterior, Oil Base, Gloss Enamel, 400 SF Per Gallon	28.25	
09 91 33 00-0031	GAL Exterior, Oil Base, Gloss, 400 SF Per Gallon	37.62	
09 91 33 00-0032	GAL Exterior, Oil Base, Semi-Gloss, 400 SF Per Gallon	30.71	
09 91 33 00-0033	GAL Exterior, Oil Base, Flat.....	28.15	
09 91 33 00-0034	GAL Exterior, Latex, Semi-Gloss, 400 SF Per Gallon.....	26.72	
09 91 33 00-0035	GAL Exterior, Flat Latex, Trim Paint, 500 SF Per Gallon.....	31.48	
09 91 33 00-0036	GAL Exterior, Latex Flat Paint, 300 SF Per Gallon	27.95	
09 91 33 00-0037	GAL Exterior, Latex Gloss Enamel, Water Base.....	39.78	
09 91 33 00-0038	GAL Cold Galvanizing Paint	194.55	
09 91 33 00-0039	GAL High Heat Paint.....	38.89	
09 91 33 00-0040	GAL Heat Resistant Paint.....	25.93	
09 91 33 00-0041	GAL Zinc Chromate Paint.....	23.46	
09 91 33 00-0042	QT Anti-Rust Enamel, 500 SF Per Quart.....	9.26	
09 91 33 00-0043	GAL Rust Inhibitor, Ferrous Metal.....	25.93	
09 91 33 00-0044	GAL Masonry Waterproofing, 100 SF Per Gallon	27.95	
09 91 33 00-0045	GAL Alkyd Latex, Black	17.49	
09 91 33 00-0046	GAL Alkyd Latex, White	17.49	
09 91 33 00-0047	GAL Alkyd Latex, Colors.....	21.09	
09 91 33 00-0048	QT Wrought Iron Paint, Black.....	23.66	
09 91 33 00-0049	GAL Vinyl Paint.....	46.99	
09 91 33 00-0050	GAL Silicone Alkyd	57.12	
09 91 33 00-0051	GAL 2 Component Solvent Based Acrylic Epoxy.....	58.04	
09 91 33 00-0052	GAL 2 Component Solvent Based Polyester Epoxy	72.78	
09 91 33 00-0053	GAL Chlorinated Rubber.....	53.44	
09 91 33 00-0054	GAL Polyamide Epoxy Sealer.....	55.28	
09 91 33 00-0055	GAL Coal Tar Epoxy	39.62	
09 91 33 00-0056	GAL Swimming Pool Enamel, 350 SF Per Gallon.....	49.44	
09 91 33 00-0057	GAL Swimming Pool Epoxy Or Urethane Base	64.49	
09 91 33 00-0058	GAL Swimming Pool Rubber Base	44.22	
09 91 33 00-0059	GAL Interior, Latex Flat Paint, 300 SF Per Gallon	28.10	
09 91 33 00-0060	GAL Interior, Latex Eggshell Or Semi-Gloss Enamel, 300 SF Per Gallon	31.48	
09 91 33 00-0061	GAL Interior, Fire-Retardant Flat Paint, 200 SF Per Gallon	57.58	
09 91 33 00-0062	GAL Interior, Ceiling White Latex Flat, 350 SF Per Gallon	19.50	
09 91 33 00-0063	GAL Linseed Oil.....	17.04	
09 91 33 00-0064	GAL Latex Floor Paint, 300 SF Per Gallon	27.95	
09 91 33 00-0065	GAL Acrylic Floor Paint, 400 SF Per Gallon	31.48	
09 91 33 00-0066	GAL Texture Paint, Sand Texture Latex, Armor Coat, 100 SF Per Gallon.....	28.79	
09 91 33 00-0067	GAL Acoustic Spray-On Texture, Finish	23.14	
09 91 33 00-0068	Stain, Varnish (09 91 33)		
09 91 33 00-0069	GAL Thompson Water Sealer, 150 SF Per Gallon.....	15.97	
09 91 33 00-0070	GAL Latex Redwood Stain, Water Base, 300 SF Per Gallon.....	29.79	
09 91 33 00-0071	GAL Redwood Oil Stain, 300 SF Per Gallon.....	26.56	
09 91 33 00-0072	GAL Varnish, Clear.....	19.22	
09 91 33 00-0073	GAL Penetrating Water-Repellent Stain	13.96	
09 91 33 00-0074	GAL Redwood Hue Or Clear Stain	12.48	
09 91 33 00-0075	GAL Polyurethane.....	21.91	
09 91 33 00-0076	GAL Lacquer, Semi-Gloss	28.03	
09 91 33 00-0077	GAL Shellac, Clear	36.77	
09 91 33 00-0078	GAL Acetone.....	12.13	
09 91 33 00-0079	GAL Paint Thinner	2.99	
09 91 33 00-0080	GAL Shellac Or Lacquer Thinner	12.28	
09 91 33 00-0081	GAL Turpentine.....	16.89	
09 91 33 00-0082	GAL Wood Filler Paste	28.87	
09 91 33 00-0083	GAL Wood Preservative, Pentachlorophenol, General Purpose, 40%, 150 SF Per Gallon	23.03	
09 91 33 00-0084	GAL Waterbased Alkyd Urethane (Sherwin Williams B53W01153).....	57.08	
09 91 43	Surface Preparation (09 91)		
	Note: Steel Structure Painting Council, SSPC; Surface Preparation, SP.		
09 91 43 00-0001	Cleaning And Preparation Of Painted And Unpainted Surfaces (09 91 43) Note: In excess of surface preparation required. Water blast and pressure washing includes mild detergent and rinsing of surface until detergent free. Sand blast and water blast includes canvas/plastic for protection of existing surfaces as well as for containment.		
09 91 43 00-0002	Concrete And Masonry Surfaces, Surface Preparation (09 91 43 00-0001)		

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 43 00-0003 SF Calcimine Removal/Washing, Concrete And Masonry Surfaces, Surface Preparation.....	0.44	
For Up To 100, Add	0.76	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.10	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.06	
For >30,000, Deduct	-0.09	
09 91 43 00-0004 SF Chemical Clean, Brush And Wash, Concrete And Masonry Surfaces, Surface Preparation	0.70	
For Up To 100, Add	1.20	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.15	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.10	
For >30,000, Deduct	-0.14	
09 91 43 00-0005 SF Hand Scrape, Concrete And Masonry Surfaces, Surface Preparation.....	0.61	
For Up To 100, Add	1.22	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.15	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.09	
For >30,000, Deduct	-0.12	
09 91 43 00-0006 SF Steam Clean, Concrete And Masonry Surfaces, Surface Preparation.....	0.61	
For Up To 100, Add	1.06	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.13	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.09	
For >30,000, Deduct	-0.12	
09 91 43 00-0007 SF Up To 5,000 PSI Pressure Wash, Concrete And Masonry Surfaces, Surface Preparation.....	0.39	
For Up To 100, Add	0.64	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.08	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.06	
For >30,000, Deduct	-0.07	
09 91 43 00-0008 SF 10,000 To 12,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation	1.13	
For Up To 100, Add	2.04	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.26	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 15,000, Deduct	-0.11	
For >15,000 To 30,000, Deduct	-0.17	
For >30,000, Deduct	-0.22	
09 91 43 00-0009 SF 30,000 To 40,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation	1.90	
For Up To 100, Add	3.58	
For >100 To 250, Add	0.90	
For >250 To 500, Add	0.45	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 15,000, Deduct	-0.19	
For >15,000 To 30,000, Deduct	-0.28	
For >30,000, Deduct	-0.37	
09 91 43 00-0010 SF Sand Blasting, Concrete And Masonry Surfaces, Surface Preparation	2.60	
For Heavy Condition Where Multiple Pass Is Required, Add	1.30	
For Up To 100, Add	4.68	
For >100 To 250, Add	1.17	
For >250 To 500, Add	0.59	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 15,000, Deduct	-0.25	
For >15,000 To 30,000, Deduct	-0.38	
For >30,000, Deduct	-0.51	
09 91 43 00-0011 Metal Surfaces, Surface Preparation (09 91 43 00-0001)		
09 91 43 00-0012 SF Chemical Clean, Brush And Wash, Metal Surfaces, Surface Preparation	0.70	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.10	
For >30,000, Deduct	-0.14	
09 91 43 00-0013 SF Hand Scraping And Sanding, Metal Surfaces, Surface Preparation	0.61	
For Up To 100, Add	0.46	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.09	
For >30,000, Deduct	-0.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 43 00-0014 SF Up To 5,000 PSI Pressure Wash, Metal Surfaces, Surface Preparation	0.38	
<i>For Up To 100, Add</i>	0.24	
<i>For >100 To 250, Add</i>	0.11	
<i>For >250 To 500, Add</i>	0.05	
<i>For >5,000 To 10,000, Deduct</i>	-0.02	
<i>For >10,000 To 15,000, Deduct</i>	-0.04	
<i>For >15,000 To 30,000, Deduct</i>	-0.06	
<i>For >30,000, Deduct</i>	-0.07	
09 91 43 00-0015 SF Power Tool Cleaning, Metal Surfaces, Surface Preparation	1.11	
<i>For Up To 100, Add</i>	0.83	
<i>For >100 To 250, Add</i>	0.39	
<i>For >250 To 500, Add</i>	0.17	
<i>For >5,000 To 10,000, Deduct</i>	-0.06	
<i>For >10,000 To 15,000, Deduct</i>	-0.11	
<i>For >15,000 To 30,000, Deduct</i>	-0.17	
<i>For >30,000, Deduct</i>	-0.22	
09 91 43 00-0016 SF Steam Cleaning, Metal Surfaces, Surface Preparation	0.38	
<i>For Up To 100, Add</i>	0.23	
<i>For >100 To 250, Add</i>	0.11	
<i>For >250 To 500, Add</i>	0.05	
<i>For >5,000 To 10,000, Deduct</i>	-0.02	
<i>For >10,000 To 15,000, Deduct</i>	-0.03	
<i>For >15,000 To 30,000, Deduct</i>	-0.05	
<i>For >30,000, Deduct</i>	-0.07	
09 91 43 00-0017 SF Loose Mill Scale With Fine Powder, Commercial Blast, Metal Surfaces, Surface Preparation	0.83	
<i>For Up To 100, Add</i>	0.54	
<i>For >100 To 250, Add</i>	0.25	
<i>For >250 To 500, Add</i>	0.11	
<i>For >5,000 To 10,000, Deduct</i>	-0.04	
<i>For >10,000 To 15,000, Deduct</i>	-0.08	
<i>For >15,000 To 30,000, Deduct</i>	-0.12	
<i>For >30,000, Deduct</i>	-0.16	
09 91 43 00-0018 SF Tight Mill Scale With Fine Powder Rust, Commercial Blast, Metal Surfaces, Surface Preparation	1.13	
<i>For Up To 100, Add</i>	0.72	
<i>For >100 To 250, Add</i>	0.34	
<i>For >250 To 500, Add</i>	0.14	
<i>For >5,000 To 10,000, Deduct</i>	-0.05	
<i>For >10,000 To 15,000, Deduct</i>	-0.11	
<i>For >15,000 To 30,000, Deduct</i>	-0.16	
<i>For >30,000, Deduct</i>	-0.22	
09 91 43 00-0019 SF Exterior Coating Blistered Pitted, Rust, Commercial Blast, Metal Surfaces, Surface Preparation	1.68	
<i>For Up To 100, Add</i>	1.09	
<i>For >100 To 250, Add</i>	0.51	
<i>For >250 To 500, Add</i>	0.22	
<i>For >5,000 To 10,000, Deduct</i>	-0.08	
<i>For >10,000 To 15,000, Deduct</i>	-0.16	
<i>For >15,000 To 30,000, Deduct</i>	-0.25	
<i>For >30,000, Deduct</i>	-0.32	
09 91 43 00-0020 SF Badly Pitted With Rust Nodules, Commercial Blast, Metal Surfaces, Surface Preparation	2.80	
<i>For Up To 100, Add</i>	1.82	
<i>For >100 To 250, Add</i>	0.85	
<i>For >250 To 500, Add</i>	0.36	
<i>For >5,000 To 10,000, Deduct</i>	-0.13	
<i>For >10,000 To 15,000, Deduct</i>	-0.26	
<i>For >15,000 To 30,000, Deduct</i>	-0.41	
<i>For >30,000, Deduct</i>	-0.54	
09 91 43 00-0021 SF Loose Mill Scale With Fine Powder Rust, Near White Blast, Metal Surfaces, Surface Preparation	2.12	
<i>For Up To 100, Add</i>	1.36	
<i>For >100 To 250, Add</i>	0.63	
<i>For >250 To 500, Add</i>	0.27	
<i>For >5,000 To 10,000, Deduct</i>	-0.10	
<i>For >10,000 To 15,000, Deduct</i>	-0.20	
<i>For >15,000 To 30,000, Deduct</i>	-0.31	
<i>For >30,000, Deduct</i>	-0.41	
09 91 43 00-0022 SF Tight Mill Scale Little Rust, Near White Blast, Metal Surfaces, Surface Preparation	2.63	
<i>For Up To 100, Add</i>	1.67	
<i>For >100 To 250, Add</i>	0.78	
<i>For >250 To 500, Add</i>	0.33	
<i>For >5,000 To 10,000, Deduct</i>	-0.12	
<i>For >10,000 To 15,000, Deduct</i>	-0.25	
<i>For >15,000 To 30,000, Deduct</i>	-0.38	
<i>For >30,000, Deduct</i>	-0.51	
09 91 43 00-0023 SF Exterior Coat Blistered Pitted Rust, Near White Blast, Metal Surfaces, Surface Preparation	3.41	
<i>For Up To 100, Add</i>	2.18	
<i>For >100 To 250, Add</i>	1.02	
<i>For >250 To 500, Add</i>	0.44	
<i>For >5,000 To 10,000, Deduct</i>	-0.16	
<i>For >10,000 To 15,000, Deduct</i>	-0.32	
<i>For >15,000 To 30,000, Deduct</i>	-0.50	
<i>For >30,000, Deduct</i>	-0.66	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 43 00-0024	SF		Badly Pitted Rust Nodules, Near White Blast, Metal Surfaces, Surface Preparation.....	4.26	
			For Up To 100, Add	2.72	
			For >100 To 250, Add	1.27	
			For >250 To 500, Add	0.54	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 15,000, Deduct	-0.40	
			For >15,000 To 30,000, Deduct	-0.62	
			For >30,000, Deduct	-0.82	
09 91 43 00-0025			Tile Surfaces (09 91 43 00-0001)		
09 91 43 00-0026	CSF		Alkaline Cleaner, Brush And Wash Tile Surface.....	39.97	
			For Up To 100, Add	29.83	
			For >100 To 250, Add	13.92	
			For >250 To 500, Add	5.97	
			For >5,000 To 10,000, Deduct	-1.99	
			For >10,000 To 15,000, Deduct	-3.99	
			For >15,000 To 30,000, Deduct	-5.99	
			For >30,000, Deduct	-7.98	
09 91 43 00-0027	SF		Up To 5,000 PSI, Pressure Wash Tile Surface.....	0.28	
			For Up To 100, Add	0.18	
			For >100 To 250, Add	0.08	
			For >250 To 500, Add	0.04	
			For >5,000 To 10,000, Deduct	-0.01	
			For >10,000 To 15,000, Deduct	-0.03	
			For >15,000 To 30,000, Deduct	-0.04	
			For >30,000, Deduct	-0.05	
09 91 43 00-0028			Wood Surfaces (09 91 43 00-0001)		
09 91 43 00-0029	SF		Chemical Clean, Brush And Wash Wood Surface.....	0.56	
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.16	
			For >250 To 500, Add	0.07	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.08	
			For >30,000, Deduct	-0.11	
09 91 43 00-0030	SF		Hand Scrape Wood Surface.....	0.67	
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.07	
			For >15,000 To 30,000, Deduct	-0.10	
			For >30,000, Deduct	-0.13	
09 91 43 00-0031	SF		Steam Clean Wood Surface.....	0.60	
			For Up To 100, Add	0.39	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.06	
			For >15,000 To 30,000, Deduct	-0.09	
			For >30,000, Deduct	-0.12	
09 91 43 00-0032	SF		Up To 5,000 PSI, Pressure Wash Wood Surface.....	0.42	
			For Up To 100, Add	0.27	
			For >100 To 250, Add	0.13	
			For >250 To 500, Add	0.05	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.04	
			For >15,000 To 30,000, Deduct	-0.06	
			For >30,000, Deduct	-0.08	
09 91 43 00-0033	SF		Sanding Wood Paneling, Boards, Doors, Etcetera.....	0.81	
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.08	
			For >15,000 To 30,000, Deduct	-0.12	
			For >30,000, Deduct	-0.16	
09 91 43 00-0034	SF		Sanding Wood Trim.....	1.10	
			For Up To 100, Add	0.80	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 15,000, Deduct	-0.11	
			For >15,000 To 30,000, Deduct	-0.16	
			For >30,000, Deduct	-0.22	
09 91 43 00-0035	SF		Prepare New Wood Floor For Finish, Multi Grit Sanding/Screening.....	1.25	
			For Up To 100, Add	0.91	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 15,000, Deduct	-0.12	
			For >15,000 To 30,000, Deduct	-0.19	
			For >30,000, Deduct	-0.25	



Finishes	09	
Painting And Coating	09 90	2
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 43 00-0036 SF Prime Wood Surfaces With Linseed Oil, 1 Coat	0.70	
For Up To 100, Add	0.47	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.10	
For >30,000, Deduct	-0.14	
09 91 43 00-0037 SF Paint Wood Surfaces With Linseed Oil, 1 Coat	0.82	
For Up To 100, Add	0.56	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.08	
For >15,000 To 30,000, Deduct	-0.12	
For >30,000, Deduct	-0.16	
09 91 43 00-0038 Vinyl Siding Surfaces (09 91 43 00-0001)		
09 91 43 00-0039 SF Hand Wash, Vinyl Siding Surfaces	0.63	
For Up To 100, Add	0.46	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.09	
For >30,000, Deduct	-0.13	
09 91 43 00-0040 SF Up To 5,000 PSI Pressure Wash, Vinyl Siding Surfaces	0.35	
For Up To 100, Add	0.21	
For >100 To 250, Add	0.10	
For >250 To 500, Add	0.04	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.03	
For >15,000 To 30,000, Deduct	-0.05	
For >30,000, Deduct	-0.07	
09 91 43 00-0041 SF Steam Clean, Vinyl Siding Surfaces	0.63	
For Up To 100, Add	0.39	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.09	
For >30,000, Deduct	-0.12	
09 91 43 00-0042 Prep Work (09 91 43 00-0001)		
09 91 43 00-0043 SF Citrus Strip, Single Applications	1.02	
09 91 43 00-0044 Plaster/Stucco (09 91 43 00-0001)		
Note: Based on total project quantity.		
09 91 43 00-0045 SF Up To 5,000 PSI Pressure Wash Stucco Surfaces	0.44	
For Up To 100, Add	0.28	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.06	
For >30,000, Deduct	-0.08	
09 91 43 00-0046 Paint Removal, Strip To Bare Wood (09 91 43 00-0001)		
09 91 43 00-0047 SF Flat Surfaces, Paint Removal, Strip To Bare Wood	7.30	
09 91 43 00-0048 SF Cornices And Decorative Trim To 12" Wide, Paint Removal, Strip To Bare Wood	7.78	
09 96 High-Performance Coatings (09 90)		
09 96 23 Graffiti-Resistant Coatings (09 96)		
09 96 23 00-0001 Anti-Graffiti Coating (09 96 23)		
09 96 23 00-0002 SF Sacrificial Anti-Graffiti Coating, Per Coat	1.28	
For Up To 100, Add	0.83	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
09 96 23 00-0003 SF Permanent (Non-Sacrificial) Anti-Graffiti Coating, Per Coat	1.34	
For Up To 100, Add	0.84	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
09 96 53 Elastomeric Coatings (09 96)		
09 96 53 00-0001 Elastomeric (09 96 53)		
Note: Per coat.		

09 Finishes**09 90 Painting And Coating****09 96 High-Performance Coatings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0002	SF		Paint, Brush, Elastomeric, Per Coat.....	2.22	
			<i>For Work >20', Add</i>	0.40	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	1.28	
			<i>For >100 To 250, Add</i>	0.62	
			<i>For >250 To 500, Add</i>	0.27	
			<i>For >2,500 To 5,000, Deduct</i>	-0.11	
			<i>For >5,000 To 10,000, Deduct</i>	-0.22	
			<i>For >10,000 To 20,000, Deduct</i>	-0.33	
			<i>For >20,000, Deduct</i>	-0.44	
09 96 53 00-0003	SF		Paint, Roller, Elastomeric, Per Coat.....	1.75	
			<i>For Work >20', Add</i>	0.28	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.93	
			<i>For >100 To 250, Add</i>	0.45	
			<i>For >250 To 500, Add</i>	0.20	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.18	
			<i>For >10,000 To 20,000, Deduct</i>	-0.26	
			<i>For >20,000, Deduct</i>	-0.35	
09 96 53 00-0004	SF		Paint, Conventional Spray, Elastomeric, Per Coat.....	1.53	
			<i>For Work >20', Add</i>	0.20	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.70	
			<i>For >100 To 250, Add</i>	0.35	
			<i>For >250 To 500, Add</i>	0.15	
			<i>For >2,500 To 5,000, Deduct</i>	-0.08	
			<i>For >5,000 To 10,000, Deduct</i>	-0.15	
			<i>For >10,000 To 20,000, Deduct</i>	-0.23	
			<i>For >20,000, Deduct</i>	-0.31	
09 96 53 00-0005	SF		Paint, Airless Spray, Elastomeric, Per Coat.....	1.37	
			<i>For Work >20', Add</i>	0.16	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.58	
			<i>For >100 To 250, Add</i>	0.29	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.14	
			<i>For >10,000 To 20,000, Deduct</i>	-0.21	
			<i>For >20,000, Deduct</i>	-0.27	
09 96 56			Epoxy Coatings (09 96)		
09 96 56 00-0001			High Build Epoxy (09 96 56)		
09 96 56 00-0002	SF		High Build Epoxy - 50 Mil.....	3.00	
09 96 56 00-0003			Laminated Epoxy With Fiberglass (09 96 56)		
09 96 56 00-0004	SF		Laminated Epoxy With Fiberglass.....	5.48	
09 96 66			Aggregate Wall Coatings (09 96)		
09 96 66 00-0001			Troweled On (09 96 66)		
09 96 66 00-0002	SF		Exposed Aggregate - 1/16" To 1/4" - Troweled On.....	3.96	
09 96 66 00-0003	SF		Exposed Aggregate - 1/2" To 5/8" Troweled On.....	7.11	
09 96 66 00-0004	SF		Exposed Aggregate - 1" Troweled On.....	10.56	
09 96 66 00-0005			Sprayed On (09 96 66)		
09 96 66 00-0006	SF		Exposed Aggregate - 1/8" - Sprayed On.....	3.21	
09 97			Special Coatings (09 90)		
09 97 13			Steel Coatings (09 97)		
09 97 13 23			Exterior Steel Coatings (09 97 13)		
09 97 13 23-0001			Surface Preparation For Structural Steel (09 97 13 23)		
			<i>Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.</i>		
09 97 13 23-0002			SSPC SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
09 97 13 23-0003	SF		Type 1 Structural Steel SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.49	
			<i>For Up To 100, Add</i>	1.12	
			<i>For >100 To 250, Add</i>	0.52	
			<i>For >250 To 500, Add</i>	0.22	
09 97 13 23-0004	SF		Type 2 Structural Steel SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.43	
			<i>For Up To 100, Add</i>	1.07	
			<i>For >100 To 250, Add</i>	0.50	
			<i>For >250 To 500, Add</i>	0.21	



Finishes	09	2
Painting And Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0005 SF Type 3 Structural Steel SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.43	
For Up To 100, Add	1.07	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.21	
09 97 13 23-0006 SF Up To 14" Diameter Pipe SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.94	
For Up To 100, Add	1.46	
For >100 To 250, Add	0.68	
For >250 To 500, Add	0.29	
09 97 13 23-0007 SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Structural Steel		
<small>(09 97 13 23-0001)</small>		
09 97 13 23-0008 SF Type 1 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	0.94	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
09 97 13 23-0009 SF Type 2 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	0.83	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
09 97 13 23-0010 SF Type 3 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	0.82	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
09 97 13 23-0011 SF Up To 14" Diameter Pipe SP7 Brush Off Blast Cleaning Surface Preparation	1.16	
For Up To 100, Add	0.80	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
09 97 13 23-0012 SSPC SP6 Commercial Blast Cleaning Surface Preparation For Structural Steel		
<small>(09 97 13 23-0001)</small>		
09 97 13 23-0013 SF Type 1 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.40	
For Up To 100, Add	1.69	
For >100 To 250, Add	0.79	
For >250 To 500, Add	0.34	
09 97 13 23-0014 SF Type 2 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.09	
For Up To 100, Add	1.46	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
09 97 13 23-0015 SF Type 3 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	1.94	
For Up To 100, Add	1.35	
For >100 To 250, Add	0.63	
For >250 To 500, Add	0.27	
09 97 13 23-0016 SF Up To 14" Diameter Pipe SP6 Commercial Blast Cleaning Surface Preparation	2.99	
For Up To 100, Add	2.13	
For >100 To 250, Add	1.00	
For >250 To 500, Add	0.43	
09 97 13 23-0017 SSPC SP5 White Metal Blast Cleaning Surface Preparation For Structural Steel		
<small>(09 97 13 23-0001)</small>		
09 97 13 23-0018 SF Type 1 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	4.65	
For Up To 100, Add	3.29	
For >100 To 250, Add	1.55	
For >250 To 500, Add	0.66	
09 97 13 23-0019 SF Type 2 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	4.00	
For Up To 100, Add	2.81	
For >100 To 250, Add	1.32	
For >250 To 500, Add	0.57	
09 97 13 23-0020 SF Type 3 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	3.67	
For Up To 100, Add	2.57	
For >100 To 250, Add	1.21	
For >250 To 500, Add	0.52	
09 97 13 23-0021 SF Up To 14" Diameter Pipe SP5 White Metal Blast Cleaning Surface Preparation.....	5.60	
For Up To 100, Add	4.01	
For >100 To 250, Add	1.88	
For >250 To 500, Add	0.81	
09 97 13 23-0022 SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Structural Steel		
<small>(09 97 13 23-0001)</small>		
09 97 13 23-0023 SF Type 1 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	3.47	
For Up To 100, Add	2.44	
For >100 To 250, Add	1.15	
For >250 To 500, Add	0.49	
09 97 13 23-0024 SF Type 2 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	2.96	
For Up To 100, Add	2.08	
For >100 To 250, Add	0.98	
For >250 To 500, Add	0.42	

09 Finishes**09 90 Painting And Coating****09 97 Special Coatings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0025 SF Type 3 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	2.80	
For Up To 100, Add	1.96	
For >100 To 250, Add	0.92	
For >250 To 500, Add	0.40	
09 97 13 23-0026 SF Up To 14" Diameter Pipe SP10 Near White Metal Blast Cleaning Surface Preparation	4.08	
For Up To 100, Add	2.92	
For >100 To 250, Add	1.37	
For >250 To 500, Add	0.59	
09 97 13 23-0027 Protective Coatings For Tanks And Structural Steel <small>(09 97 13 23)</small>		
Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
09 97 13 23-0028 1.5 Mil Prime Coat For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0029 SF Spray Type 1 Structural Steel 1.5 Mil Prime Coat.....	0.92	
For Up To 100, Add	0.62	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
09 97 13 23-0030 SF Spray Type 2 Structural Steel 1.5 Mil Prime Coat.....	0.68	
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
09 97 13 23-0031 SF Spray Type 3 Structural Steel 1.5 Mil Prime Coat.....	0.60	
For Up To 100, Add	0.40	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
09 97 13 23-0032 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime Coat	1.10	
For Up To 100, Add	0.77	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
09 97 13 23-0033 SF Brush Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.33	
For Up To 100, Add	0.93	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
09 97 13 23-0034 SF Brush Type 2 Structural Steel 1.5 Mil Prime Coat.....	0.97	
For Up To 100, Add	0.67	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
09 97 13 23-0035 SF Brush Type 3 Structural Steel 1.5 Mil Prime Coat.....	0.86	
For Up To 100, Add	0.59	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
09 97 13 23-0036 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime Coat	1.61	
For Up To 100, Add	1.15	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.23	
09 97 13 23-0037 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0038 SF Spray Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.69	
For Up To 100, Add	1.81	
For >100 To 250, Add	0.86	
For >250 To 500, Add	0.37	
09 97 13 23-0039 SF Spray Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.92	
For Up To 100, Add	1.25	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.26	
09 97 13 23-0040 SF Spray Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.78	
For Up To 100, Add	1.15	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
09 97 13 23-0041 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.29	
For Up To 100, Add	2.26	
For >100 To 250, Add	1.06	
For >250 To 500, Add	0.46	
09 97 13 23-0042 SF Spray Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.02	
For Up To 100, Add	1.36	
For >100 To 250, Add	0.64	
For >250 To 500, Add	0.28	
09 97 13 23-0043 SF Spray Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.44	
For Up To 100, Add	0.94	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.19	
09 97 13 23-0044 SF Spray Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.33	
For Up To 100, Add	0.86	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
09 97 13 23-0045 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.46	
For Up To 100, Add	1.69	
For >100 To 250, Add	0.80	
For >250 To 500, Add	0.34	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0046 SF Brush Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	4.23	
For Up To 100, Add	2.97	
For >100 To 250, Add	1.40	
For >250 To 500, Add	0.60	
09 97 13 23-0047 SF Brush Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.98	
For Up To 100, Add	2.05	
For >100 To 250, Add	0.97	
For >250 To 500, Add	0.42	
09 97 13 23-0048 SF Brush Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.74	
For Up To 100, Add	1.87	
For >100 To 250, Add	0.88	
For >250 To 500, Add	0.38	
09 97 13 23-0049 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	5.21	
For Up To 100, Add	3.70	
For >100 To 250, Add	1.74	
For >250 To 500, Add	0.75	
09 97 13 23-0050 SF Brush Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	3.17	
For Up To 100, Add	2.22	
For >100 To 250, Add	1.04	
For >250 To 500, Add	0.45	
09 97 13 23-0051 SF Brush Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.24	
For Up To 100, Add	1.54	
For >100 To 250, Add	0.73	
For >250 To 500, Add	0.31	
09 97 13 23-0052 SF Brush Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.05	
For Up To 100, Add	1.40	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.28	
09 97 13 23-0053 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	3.91	
For Up To 100, Add	2.78	
For >100 To 250, Add	1.30	
For >250 To 500, Add	0.56	
09 97 13 23-0054 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Structural Steel (09 97 13 23-0027)		
09 97 13 23-0055 SF Spray Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.09	
For Up To 100, Add	1.42	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.29	
09 97 13 23-0056 SF Spray Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.69	
For Up To 100, Add	1.14	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.23	
09 97 13 23-0057 SF Spray Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.55	
For Up To 100, Add	1.03	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
09 97 13 23-0058 SF Spray Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	2.61	
For Up To 100, Add	1.80	
For >100 To 250, Add	0.85	
For >250 To 500, Add	0.37	
09 97 13 23-0059 SF Spray Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.33	
For Up To 100, Add	0.90	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.18	
09 97 13 23-0060 SF Spray Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.08	
For Up To 100, Add	0.73	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
09 97 13 23-0061 SF Spray Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	0.98	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
09 97 13 23-0062 SF Spray Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.66	
For Up To 100, Add	1.15	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.23	
09 97 13 23-0063 SF Brush Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.02	
For Up To 100, Add	2.12	
For >100 To 250, Add	0.99	
For >250 To 500, Add	0.43	
09 97 13 23-0064 SF Brush Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.44	
For Up To 100, Add	1.70	
For >100 To 250, Add	0.80	
For >250 To 500, Add	0.34	
09 97 13 23-0065 SF Brush Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.22	
For Up To 100, Add	1.53	
For >100 To 250, Add	0.72	
For >250 To 500, Add	0.31	
09 97 13 23-0066 SF Brush Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	3.81	
For Up To 100, Add	2.70	
For >100 To 250, Add	1.27	
For >250 To 500, Add	0.55	

09 Finishes**09 90 Painting And Coating****09 97 Special Coatings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0067	SF		Brush Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.94	
			<i>For Up To 100, Add</i>	1.36	
			<i>For >100 To 250, Add</i>	0.64	
			<i>For >250 To 500, Add</i>	0.28	
09 97 13 23-0068	SF		Brush Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.56	
			<i>For Up To 100, Add</i>	1.09	
			<i>For >100 To 250, Add</i>	0.51	
			<i>For >250 To 500, Add</i>	0.22	
09 97 13 23-0069	SF		Brush Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.42	
			<i>For Up To 100, Add</i>	0.98	
			<i>For >100 To 250, Add</i>	0.46	
			<i>For >250 To 500, Add</i>	0.20	
09 97 13 23-0070	SF		Brush Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	2.43	
			<i>For Up To 100, Add</i>	1.73	
			<i>For >100 To 250, Add</i>	0.81	
			<i>For >250 To 500, Add</i>	0.35	
09 97 13 23-0071			2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0072	SF		Spray Type 1 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.33	
			<i>For Up To 100, Add</i>	2.08	
			<i>For >100 To 250, Add</i>	0.99	
			<i>For >250 To 500, Add</i>	0.43	
09 97 13 23-0073	SF		Spray Type 2 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.38	
			<i>For Up To 100, Add</i>	1.41	
			<i>For >100 To 250, Add</i>	0.68	
			<i>For >250 To 500, Add</i>	0.30	
09 97 13 23-0074	SF		Spray Type 3 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.09	
			<i>For Up To 100, Add</i>	1.20	
			<i>For >100 To 250, Add</i>	0.58	
			<i>For >250 To 500, Add</i>	0.25	
09 97 13 23-0075	SF		Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.79	
			<i>For Up To 100, Add</i>	2.42	
			<i>For >100 To 250, Add</i>	1.15	
			<i>For >250 To 500, Add</i>	0.50	
09 97 13 23-0076	SF		Spray Type 1 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.33	
			<i>For Up To 100, Add</i>	1.46	
			<i>For >100 To 250, Add</i>	0.70	
			<i>For >250 To 500, Add</i>	0.30	
09 97 13 23-0077	SF		Spray Type 2 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	1.67	
			<i>For Up To 100, Add</i>	0.99	
			<i>For >100 To 250, Add</i>	0.47	
			<i>For >250 To 500, Add</i>	0.21	
09 97 13 23-0078	SF		Spray Type 3 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	1.47	
			<i>For Up To 100, Add</i>	0.84	
			<i>For >100 To 250, Add</i>	0.40	
			<i>For >250 To 500, Add</i>	0.18	
09 97 13 23-0079	SF		Spray Up To 14" Diameter Pipe Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.66	
			<i>For Up To 100, Add</i>	1.70	
			<i>For >100 To 250, Add</i>	0.81	
			<i>For >250 To 500, Add</i>	0.35	
09 97 13 23-0080			2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0081	SF		Spray Type 1 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	3.52	
			<i>For Up To 100, Add</i>	2.11	
			<i>For >100 To 250, Add</i>	1.01	
			<i>For >250 To 500, Add</i>	0.44	
09 97 13 23-0082	SF		Spray Type 2 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	2.56	
			<i>For Up To 100, Add</i>	1.44	
			<i>For >100 To 250, Add</i>	0.70	
			<i>For >250 To 500, Add</i>	0.30	
09 97 13 23-0083	SF		Spray Type 3 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	2.27	
			<i>For Up To 100, Add</i>	1.22	
			<i>For >100 To 250, Add</i>	0.59	
			<i>For >250 To 500, Add</i>	0.26	
09 97 13 23-0084	SF		Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	3.99	
			<i>For Up To 100, Add</i>	2.45	
			<i>For >100 To 250, Add</i>	1.17	
			<i>For >250 To 500, Add</i>	0.51	
09 97 13 23-0085	SF		Spray Type 1 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	2.89	
			<i>For Up To 100, Add</i>	1.74	
			<i>For >100 To 250, Add</i>	0.83	
			<i>For >250 To 500, Add</i>	0.36	
09 97 13 23-0086	SF		Spray Type 2 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	2.11	
			<i>For Up To 100, Add</i>	1.19	
			<i>For >100 To 250, Add</i>	0.57	
			<i>For >250 To 500, Add</i>	0.25	
09 97 13 23-0087	SF		Spray Type 3 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	1.86	
			<i>For Up To 100, Add</i>	1.00	
			<i>For >100 To 250, Add</i>	0.49	
			<i>For >250 To 500, Add</i>	0.21	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0088 SF Spray Up To 14" Diameter Pipe Two 6 Mil High Build Epoxy Finish Coats	3.28	
For Up To 100, Add	2.01	
For >100 To 250, Add	0.96	
For >250 To 500, Add	0.42	
09 97 13 23-0089 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0090 SF Spray Type 1 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	7.43	
For Up To 100, Add	4.55	
For >100 To 250, Add	2.18	
For >250 To 500, Add	0.94	
09 97 13 23-0091 SF Spray Type 2 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	5.56	
For Up To 100, Add	3.26	
For >100 To 250, Add	1.57	
For >250 To 500, Add	0.68	
09 97 13 23-0092 SF Spray Type 3 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	5.33	
For Up To 100, Add	3.09	
For >100 To 250, Add	1.49	
For >250 To 500, Add	0.65	
09 97 13 23-0093 SF Spray Up To 14" Diameter Pipe 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	8.71	
For Up To 100, Add	5.49	
For >100 To 250, Add	2.62	
For >250 To 500, Add	1.13	
09 97 13 23-0094 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0095 SF Spray Type 1 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	3.83	
For Up To 100, Add	2.20	
For >100 To 250, Add	1.06	
For >250 To 500, Add	0.46	
09 97 13 23-0096 SF Spray Type 2 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	2.95	
For Up To 100, Add	1.55	
For >100 To 250, Add	0.76	
For >250 To 500, Add	0.33	
09 97 13 23-0097 SF Spray Type 3 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	2.80	
For Up To 100, Add	1.43	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.31	
09 97 13 23-0098 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	4.39	
For Up To 100, Add	2.60	
For >100 To 250, Add	1.25	
For >250 To 500, Add	0.54	
09 97 13 23-0099 SF Spray Type 1 Structural Steel Two 4 Mil High Build Vinyl Finish Coats	3.03	
For Up To 100, Add	1.74	
For >100 To 250, Add	0.84	
For >250 To 500, Add	0.37	
09 97 13 23-0100 SF Spray Type 2 Structural Steel Two 4 Mil High Build Vinyl Finish Coats	2.33	
For Up To 100, Add	1.22	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
09 97 13 23-0101 SF Spray Type 3 Structural Steel Two 4 Mil High Build Vinyl Finish Coats	2.22	
For Up To 100, Add	1.14	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.25	
09 97 13 23-0102 SF Spray Up To 14" Diameter Pipe Two 4 Mil High Build Vinyl Finish Coats	3.46	
For Up To 100, Add	2.05	
For >100 To 250, Add	0.98	
For >250 To 500, Add	0.43	
09 97 13 23-0103 Two 8 Mil Coal Tar Epoxy Coats For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0104 SF Spray Type 1 Structural Steel Two 8 Mil Coal Tar Epoxy Coats	3.35	
For Up To 100, Add	2.13	
For >100 To 250, Add	1.01	
For >250 To 500, Add	0.44	
09 97 13 23-0105 SF Spray Type 2 Structural Steel Two 8 Mil Coal Tar Epoxy Coats	2.71	
For Up To 100, Add	1.68	
For >100 To 250, Add	0.80	
For >250 To 500, Add	0.35	
09 97 13 23-0106 SF Spray Type 3 Structural Steel Two 8 Mil Coal Tar Epoxy Coats	2.49	
For Up To 100, Add	1.52	
For >100 To 250, Add	0.73	
For >250 To 500, Add	0.32	
09 97 13 23-0107 SF Spray Up To 14" Diameter Pipe Two 8 Mil Coal Tar Epoxy Coats	4.19	
For Up To 100, Add	2.75	
For >100 To 250, Add	1.30	
For >250 To 500, Add	0.56	
09 97 13 23-0108 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Structural Steel <small>(09 97 13 23-0027)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0109 SF Spray Type 1 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.27	
For Up To 100, Add	2.16	
For >100 To 250, Add	1.02	
For >250 To 500, Add	0.44	
09 97 13 23-0110 SF Spray Type 2 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.29	
For Up To 100, Add	1.45	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
09 97 13 23-0111 SF Spray Type 3 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	1.92	
For Up To 100, Add	1.17	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.24	
09 97 13 23-0112 SF Spray Up To 14" Diameter Pipe One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.74	
For Up To 100, Add	2.50	
For >100 To 250, Add	1.18	
For >250 To 500, Add	0.51	
09 97 13 23-0113 One 3 Mil High Zinc Silicate Coat For Structural Steel (09 97 13 23-0027)		
09 97 13 23-0114 SF Spray Type 1 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.67	
For Up To 100, Add	0.95	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
09 97 13 23-0115 SF Spray Type 2 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.19	
For Up To 100, Add	0.62	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
09 97 13 23-0116 SF Spray Type 3 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.12	
For Up To 100, Add	0.56	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
09 97 13 23-0117 SF Spray Up To 14" Diameter Pipe One 3 Mil High Zinc Silicate Coat.....	1.76	
For Up To 100, Add	1.01	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
09 97 13 23-0118 Two 1.5 Mil Vinyl Enamel Finish Coats For Structural Steel (09 97 13 23-0027)		
Note: Installed over existing primer.		
09 97 13 23-0119 SF Spray Type 1 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.65	
For Up To 100, Add	1.63	
For >100 To 250, Add	0.78	
For >250 To 500, Add	0.34	
09 97 13 23-0120 SF Spray Type 2 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.14	
For Up To 100, Add	1.29	
For >100 To 250, Add	0.62	
For >250 To 500, Add	0.27	
09 97 13 23-0121 SF Spray Type 3 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats.....	1.86	
For Up To 100, Add	1.08	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.23	
09 97 13 23-0122 SF Spray Up To 14" Diameter Pipe Two 1.5 Mil Vinyl Enamel Finish Coats.....	3.10	
For Up To 100, Add	1.97	
For >100 To 250, Add	0.94	
For >250 To 500, Add	0.41	
09 97 13 24 Steel Water Storage Tank Painting (09 97 13)		
09 97 13 24-0001 Surface Preparation For Tanks (09 97 13 24)		
Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0002 SSPC SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0003 SF Small Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.43	
For Up To 100, Add	1.07	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.21	
09 97 13 24-0004 SF Large Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.26	
For Up To 100, Add	0.95	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
09 97 13 24-0005 SF Vessel/Tank Interior SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.79	
For Up To 100, Add	1.34	
For >100 To 250, Add	0.63	
For >250 To 500, Add	0.27	
09 97 13 24-0006 SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0007 SF Small Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation	0.78	
For Up To 100, Add	0.54	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
09 97 13 24-0008 SF Large Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation	0.64	
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
09 97 13 24-0009 SF Vessel/Tank Interior SP7 Brush Off Blast Cleaning Surface Preparation	1.10	
For Up To 100, Add	0.79	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
09 97 13 24-0010 SSPC SP6 Commercial Blast Cleaning Surface Preparation For Tanks (09 97 13		
24-0001)		
09 97 13 24-0011 SF Small Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation	1.94	
For Up To 100, Add	1.35	
For >100 To 250, Add	0.63	
For >250 To 500, Add	0.27	
09 97 13 24-0012 SF Large Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation	1.79	
For Up To 100, Add	1.23	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.25	
09 97 13 24-0013 SF Vessel/Tank Interior SP6 Commercial Blast Cleaning Surface Preparation	2.58	
For Up To 100, Add	1.83	
For >100 To 250, Add	0.86	
For >250 To 500, Add	0.37	
09 97 13 24-0014 SSPC SP5 White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13		
24-0001)		
09 97 13 24-0015 SF Small Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation.....	3.50	
For Up To 100, Add	2.45	
For >100 To 250, Add	1.15	
For >250 To 500, Add	0.50	
09 97 13 24-0016 SF Large Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation	3.34	
For Up To 100, Add	2.33	
For >100 To 250, Add	1.09	
For >250 To 500, Add	0.47	
09 97 13 24-0017 SF Vessel/Tank Interior SP5 White Metal Blast Cleaning Surface Preparation	4.87	
For Up To 100, Add	3.47	
For >100 To 250, Add	1.63	
For >250 To 500, Add	0.70	
09 97 13 24-0018 SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For		
Tanks (09 97 13 24-0001)		
09 97 13 24-0019 SF Small Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation.....	2.80	
For Up To 100, Add	1.96	
For >100 To 250, Add	0.92	
For >250 To 500, Add	0.40	
09 97 13 24-0020 SF Large Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation.....	2.80	
For Up To 100, Add	1.96	
For >100 To 250, Add	0.92	
For >250 To 500, Add	0.40	
09 97 13 24-0021 SF Vessel/Tank Interior SP10 Near White Metal Blast Cleaning Surface Preparation.....	4.08	
For Up To 100, Add	2.92	
For >100 To 250, Add	1.37	
For >250 To 500, Add	0.59	
09 97 13 24-0022 Protective Coatings For Tanks (09 97 13 24)		
Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12'		
diameter, tank interiors - over 6' diameter.		
09 97 13 24-0023 1.5 Mil Prime Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0024 SF Spray Small Vessel/Tank 1.5 Mil Prime Coat	0.53	
For Up To 100, Add	0.34	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
09 97 13 24-0025 SF Spray Large Vessel/Tank 1.5 Mil Prime Coat	0.43	
For Up To 100, Add	0.27	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	
09 97 13 24-0026 SF Spray Tank Interior 1.5 Mil Prime Coat.....	1.05	
For Up To 100, Add	0.73	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
09 97 13 24-0027 SF Brush Small Vessel/Tank 1.5 Mil Prime Coat	0.75	
For Up To 100, Add	0.51	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0028 SF Brush Large Vessel/Tank 1.5 Mil Prime Coat	0.60	
For Up To 100, Add	0.40	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
09 97 13 24-0029 SF Brush Tank Interior 1.5 Mil Prime Coat	1.53	
For Up To 100, Add	1.09	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
09 97 13 24-0030 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0031 SF Spray Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.54	
For Up To 100, Add	0.98	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
09 97 13 24-0032 SF Spray Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.18	
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
09 97 13 24-0033 SF Spray Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.94	
For Up To 100, Add	2.03	
For >100 To 250, Add	0.95	
For >250 To 500, Add	0.41	
09 97 13 24-0034 SF Spray Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.16	
For Up To 100, Add	0.74	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
09 97 13 24-0035 SF Spray Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	0.88	
For Up To 100, Add	0.53	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
09 97 13 24-0036 SF Spray Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.20	
For Up To 100, Add	1.52	
For >100 To 250, Add	0.72	
For >250 To 500, Add	0.31	
09 97 13 24-0037 SF Brush Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.37	
For Up To 100, Add	1.60	
For >100 To 250, Add	0.75	
For >250 To 500, Add	0.33	
09 97 13 24-0038 SF Brush Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.76	
For Up To 100, Add	1.14	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.23	
09 97 13 24-0039 SF Brush Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	4.67	
For Up To 100, Add	3.32	
For >100 To 250, Add	1.56	
For >250 To 500, Add	0.67	
09 97 13 24-0040 SF Brush Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.77	
For Up To 100, Add	1.20	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.24	
09 97 13 24-0041 SF Brush Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.31	
For Up To 100, Add	0.85	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
09 97 13 24-0042 SF Brush Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	3.51	
For Up To 100, Add	2.50	
For >100 To 250, Add	1.17	
For >250 To 500, Add	0.50	
09 97 13 24-0043 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0044 SF Spray Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.39	
For Up To 100, Add	0.91	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
09 97 13 24-0045 SF Spray Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.18	
For Up To 100, Add	0.75	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
09 97 13 24-0046 SF Spray Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.09	
For Up To 100, Add	2.19	
For >100 To 250, Add	1.03	
For >250 To 500, Add	0.44	
09 97 13 24-0047 SF Spray Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	0.89	
For Up To 100, Add	0.58	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
09 97 13 24-0048 SF Spray Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	0.75	
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0049 SF Spray Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	1.97	
For Up To 100, Add	1.39	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
09 97 13 24-0050 SF Brush Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.00	
For Up To 100, Add	1.37	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
09 97 13 24-0051 SF Brush Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.66	
For Up To 100, Add	1.11	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
09 97 13 24-0052 SF Brush Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	4.88	
For Up To 100, Add	3.58	
For >100 To 250, Add	1.67	
For >250 To 500, Add	0.72	
09 97 13 24-0053 SF Brush Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.28	
For Up To 100, Add	0.88	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
09 97 13 24-0054 SF Brush Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.06	
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
09 97 13 24-0055 SF Brush Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	3.17	
For Up To 100, Add	2.29	
For >100 To 250, Add	1.07	
For >250 To 500, Add	0.46	
09 97 13 24-0056 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0057 SF Spray Small Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.94	
For Up To 100, Add	1.09	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
09 97 13 24-0058 SF Spray Large Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.64	
For Up To 100, Add	0.86	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.19	
09 97 13 24-0059 SF Spray Small Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.35	
For Up To 100, Add	0.76	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
09 97 13 24-0060 SF Spray Large Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.14	
For Up To 100, Add	0.60	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
09 97 13 24-0061 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0062 SF Spray Small Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	2.11	
For Up To 100, Add	1.11	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.24	
09 97 13 24-0063 SF Spray Large Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	1.81	
For Up To 100, Add	0.89	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
09 97 13 24-0064 SF Spray Small Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	1.72	
For Up To 100, Add	0.91	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
09 97 13 24-0065 SF Spray Large Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	1.48	
For Up To 100, Add	0.73	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
09 97 13 24-0066 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0067 SF Spray Small Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	5.14	
For Up To 100, Add	2.97	
For >100 To 250, Add	1.43	
For >250 To 500, Add	0.62	
09 97 13 24-0068 SF Spray Large Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	4.70	
For Up To 100, Add	2.64	
For >100 To 250, Add	1.28	
For >250 To 500, Add	0.56	
09 97 13 24-0069 SF Spray Tank Interior 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	8.08	
For Up To 100, Add	5.18	
For >100 To 250, Add	2.46	
For >250 To 500, Add	1.07	

09 Finishes**09 90 Painting And Coating**

09 97 Special Coatings

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0070			1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0071	SF		Spray Small Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	2.63	
			<i>For Up To 100, Add</i>	1.38	
			<i>For >100 To 250, Add</i>	0.67	
			<i>For >250 To 500, Add</i>	0.30	
09 97 13 24-0072	SF		Spray Large Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	2.32	
			<i>For Up To 100, Add</i>	1.15	
			<i>For >100 To 250, Add</i>	0.56	
			<i>For >250 To 500, Add</i>	0.25	
09 97 13 24-0073	SF		Spray Tank Interior 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	4.07	
			<i>For Up To 100, Add</i>	2.46	
			<i>For >100 To 250, Add</i>	1.18	
			<i>For >250 To 500, Add</i>	0.51	
09 97 13 24-0074	SF		Spray Small Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats.....	2.08	
			<i>For Up To 100, Add</i>	1.09	
			<i>For >100 To 250, Add</i>	0.53	
			<i>For >250 To 500, Add</i>	0.23	
09 97 13 24-0075	SF		Spray Large Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats.....	1.83	
			<i>For Up To 100, Add</i>	0.90	
			<i>For >100 To 250, Add</i>	0.45	
			<i>For >250 To 500, Add</i>	0.20	
09 97 13 24-0076	SF		Spray Tank Interior Two 4 Mil High Build Vinyl Finish Coats	3.22	
			<i>For Up To 100, Add</i>	1.95	
			<i>For >100 To 250, Add</i>	0.93	
			<i>For >250 To 500, Add</i>	0.41	
09 97 13 24-0077			Two 8 Mil Coal Tar Epoxy Coats For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0078	SF		Spray Small Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats.....	2.47	
			<i>For Up To 100, Add</i>	1.52	
			<i>For >100 To 250, Add</i>	0.72	
			<i>For >250 To 500, Add</i>	0.31	
09 97 13 24-0079	SF		Spray Large Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats	2.03	
			<i>For Up To 100, Add</i>	1.19	
			<i>For >100 To 250, Add</i>	0.57	
			<i>For >250 To 500, Add</i>	0.25	
09 97 13 24-0080	SF		Spray Tank Interior Two 8 Mil Coal Tar Epoxy Coats	3.20	
			<i>For Up To 100, Add</i>	2.06	
			<i>For >100 To 250, Add</i>	0.98	
			<i>For >250 To 500, Add</i>	0.42	
09 97 13 24-0081			One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0082	SF		Spray Small Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	1.68	
			<i>For Up To 100, Add</i>	1.00	
			<i>For >100 To 250, Add</i>	0.48	
			<i>For >250 To 500, Add</i>	0.21	
09 97 13 24-0083	SF		Spray Large Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	1.54	
			<i>For Up To 100, Add</i>	0.89	
			<i>For >100 To 250, Add</i>	0.43	
			<i>For >250 To 500, Add</i>	0.19	
09 97 13 24-0084	SF		Spray Tank Interior One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.64	
			<i>For Up To 100, Add</i>	1.72	
			<i>For >100 To 250, Add</i>	0.81	
			<i>For >250 To 500, Add</i>	0.35	
09 97 13 24-0085			Two 6 Mil High Build Epoxy Finish Coats For Tanks Interior <small>(09 97 13 24-0022)</small>		
09 97 13 24-0086	SF		Spray Small Tank Interior Two 6 Mil High Build Epoxy Finish Coats	3.76	
			<i>For Up To 100, Add</i>	2.33	
			<i>For >100 To 250, Add</i>	1.11	
			<i>For >250 To 500, Add</i>	0.48	
09 97 13 24-0087	SF		Spray Large Tank Interior Two 6 Mil High Build Epoxy Finish Coats	2.22	
			<i>For Up To 100, Add</i>	1.22	
			<i>For >100 To 250, Add</i>	0.59	
			<i>For >250 To 500, Add</i>	0.26	
09 97 13 24-0088			One 3 Mil High Zinc Silicate Coat For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0089	SF		Spray Small Vessel/Tank One 3 Mil High Zinc Silicate Coat	1.03	
			<i>For Up To 100, Add</i>	0.51	
			<i>For >100 To 250, Add</i>	0.25	
			<i>For >250 To 500, Add</i>	0.11	
09 97 13 24-0090	SF		Spray Large Vessel/Tank One 3 Mil High Zinc Silicate Coat	1.00	
			<i>For Up To 100, Add</i>	0.49	
			<i>For >100 To 250, Add</i>	0.24	
			<i>For >250 To 500, Add</i>	0.11	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0091 SF Spray Tank Interior One 3 Mil High Zinc Silicate Coat.....	1.68	
<i>For Up To 100, Add</i>	1.00	
<i>For >100 To 250, Add</i>	0.48	
<i>For >250 To 500, Add</i>	0.21	
09 97 13 24-0092 Two 1.5 Mil Vinyl Enamel Finish Coats For Tanks <small>(09 97 13 24-0022)</small>		
<small>Note: Installed over existing primer.</small>		
09 97 13 24-0093 SF Spray Small Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	1.75	
<i>For Up To 100, Add</i>	1.01	
<i>For >100 To 250, Add</i>	0.49	
<i>For >250 To 500, Add</i>	0.21	
09 97 13 24-0094 SF Spray Large Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	1.54	
<i>For Up To 100, Add</i>	0.85	
<i>For >100 To 250, Add</i>	0.41	
<i>For >250 To 500, Add</i>	0.18	
09 97 13 24-0095 SF Spray Tank Interior Two 1.5 Mil Vinyl Enamel Finish Coats	2.49	
<i>For Up To 100, Add</i>	1.56	
<i>For >100 To 250, Add</i>	0.74	
<i>For >250 To 500, Add</i>	0.32	
09 97 13 24-0096 One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0097 SF Spray/Mop Large Vessel/Tank One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat.....	6.63	
<i>For Up To 100, Add</i>	4.34	
<i>For >100 To 250, Add</i>	2.06	
<i>For >250 To 500, Add</i>	0.89	
09 97 26 Cementitious Coatings <small>(09 97)</small>		
09 97 26 13 Interior Cementitious Coatings <small>(09 97 26)</small>		
09 97 26 13-0001 Ceramic-Like Glazed Coating <small>(09 97 26 13)</small>		
09 97 26 13-0002 Ceramic-Like Glazed Coating, Cementitious <small>(09 97 26 13-0001)</small>		
09 97 26 13-0003 SF Ceramic-like Glazed Coating. - Cementitious	2.56	
09 97 26 13-0004 Ceramic-Like Glazed Coating, Resin Base <small>(09 97 26 13-0001)</small>		
09 97 26 13-0005 SF Ceramic-like Glazed Coating - Resin.....	2.16	
09 97 63 Special Coatings and Protection Systems <small>(09 97)</small>		
09 97 63 00-0001 Acrylic Glazed Coating <small>(09 97 63)</small>		
09 97 63 00-0002 SF Acrylic Glazed Coating	1.68	

END OF SECTION 09

09	09	Finishes
	09 90	Painting And Coating
	09 97	Special Coatings



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

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Specialties	10	10
Information Specialties	10 10	
Signage	10 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 Specialties

10 10 Information Specialties ⁽¹⁰⁾

10 14 Signage ^(10 10)

10 14 53 Traffic Signage ^(10 14)

10 14 53 11 Traffic Signage ^(10 14 53)

10 14 53 11-0001 Traffic Signs (Monterey County) ^(10 14 53 11)

10 14 53 11-0002	EA	Roadside Sign-One Post (Monterey County).....	299.53	21.45
10 14 53 11-0003	EA	Install Roadside Sign Panel On Existing Post (Monterey County).....	157.37	

10 14 53 11-0004 Traffic Signs ^(10 14 53 11)

10 14 53 11-0005 ReflectORIZED Stop Signs And Other Traffic Signs ^(10 14 53 11-0004)

Note: Excludes posts.

10 14 53 11-0006 Aluminum Engineer Grade Stop Signs ^(10 14 53 11-0005)

10 14 53 11-0007	EA	18" x 18" Aluminum Engineer Grade Stop Sign.....	53.01	15.78
		<i>For Hi-Intensity Grade, Add</i>	6.44	
		<i>For Diamond Grade, Add</i>	12.23	
10 14 53 11-0008	EA	18" x 24" Aluminum Engineer Grade Stop Sign.....	61.36	16.69
		<i>For Hi-Intensity Grade, Add</i>	8.42	
		<i>For Diamond Grade, Add</i>	15.99	
10 14 53 11-0009	EA	24" x 24" Aluminum Engineer Grade Stop Sign.....	66.42	17.53
		<i>For Hi-Intensity Grade, Add</i>	12.85	
		<i>For Diamond Grade, Add</i>	20.38	
10 14 53 11-0010	EA	30" x 30" Aluminum Engineer Grade Stop Sign.....	76.96	18.45
		<i>For Hi-Intensity Grade, Add</i>	4.82	
		<i>For Diamond Grade, Add</i>	26.10	
10 14 53 11-0011	EA	36" x 36" Aluminum Engineer Grade Stop Sign.....	102.92	19.29
		<i>For Hi-Intensity Grade, Add</i>	14.16	
		<i>For Diamond Grade, Add</i>	44.40	

10 14 53 11-0012 Other ReflectORIZED Traffic Signs ^(10 14 53 11-0005)

Note: Other traffic signs includes reserve, handicap, visitor, no parking, property, speed limit, tow away, ADA, parking time limit, parking exclusive area, school, traffic/caution, etc. Excludes posts.

10 14 53 11-0013 Aluminum Engineer Grade Traffic Signs ^(10 14 53 11-0012)

10 14 53 11-0014	EA	6" x 12" Aluminum Engineer Grade Traffic Sign.....	33.36	14.02
		<i>For Hi-Intensity Grade, Add</i>	1.59	
10 14 53 11-0015	EA	6" x 18" Aluminum Engineer Grade Traffic Sign.....	36.02	14.02
		<i>For Hi-Intensity Grade, Add</i>	2.39	
10 14 53 11-0016	EA	9" x 12" Aluminum Engineer Grade Traffic Sign.....	36.02	14.02
		<i>For Hi-Intensity Grade, Add</i>	2.39	
10 14 53 11-0017	EA	9" x 15" Aluminum Engineer Grade Traffic Sign.....	38.01	14.02
		<i>For Hi-Intensity Grade, Add</i>	2.99	
10 14 53 11-0018	EA	9" x 18" Aluminum Engineer Grade Traffic Sign.....	40.01	14.02
		<i>For Hi-Intensity Grade, Add</i>	3.59	
10 14 53 11-0019	EA	9" x 24" Aluminum Engineer Grade Traffic Sign.....	45.74	14.91
		<i>For Hi-Intensity Grade, Add</i>	4.78	
10 14 53 11-0020	EA	9" x 48" Aluminum Engineer Grade Traffic Sign.....	61.68	14.91
		<i>For Hi-Intensity Grade, Add</i>	9.56	
10 14 53 11-0021	EA	12" x 12" Aluminum Engineer Grade Traffic Sign.....	38.68	14.02
		<i>For Hi-Intensity Grade, Add</i>	3.19	
10 14 53 11-0022	EA	12" x 18" Aluminum Engineer Grade Traffic Sign.....	45.74	14.91
		<i>For Hi-Intensity Grade, Add</i>	4.78	
10 14 53 11-0023	EA	12" x 24" Aluminum Engineer Grade Traffic Sign.....	51.05	14.91
		<i>For Hi-Intensity Grade, Add</i>	6.38	
10 14 53 11-0024	EA	12" x 30" Aluminum Engineer Grade Traffic Sign.....	56.37	14.91
		<i>For Hi-Intensity Grade, Add</i>	7.97	
10 14 53 11-0025	EA	12" x 36" Aluminum Engineer Grade Traffic Sign.....	61.68	14.91
		<i>For Hi-Intensity Grade, Add</i>	9.56	
10 14 53 11-0026	EA	18" x 18" Aluminum Engineer Grade Traffic Sign.....	53.71	14.91
		<i>For Hi-Intensity Grade, Add</i>	7.17	
10 14 53 11-0027	EA	18" x 24" Aluminum Engineer Grade Traffic Sign.....	61.68	14.91
		<i>For Hi-Intensity Grade, Add</i>	9.56	
10 14 53 11-0028	EA	18" x 30" Aluminum Engineer Grade Traffic Sign.....	71.41	15.78
		<i>For Hi-Intensity Grade, Add</i>	11.96	
10 14 53 11-0029	EA	18" x 36" Aluminum Engineer Grade Traffic Sign.....	79.38	15.78
		<i>For Hi-Intensity Grade, Add</i>	14.35	
10 14 53 11-0030	EA	18" x 48" Aluminum Engineer Grade Traffic Sign.....	102.33	19.29
		<i>For Hi-Intensity Grade, Add</i>	19.13	
10 14 53 11-0031	EA	18" x 54" Aluminum Engineer Grade Traffic Sign.....	110.30	19.29
		<i>For Hi-Intensity Grade, Add</i>	21.52	
10 14 53 11-0032	EA	24" x 24" Aluminum Engineer Grade Traffic Sign.....	74.07	15.78
		<i>For Hi-Intensity Grade, Add</i>	12.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0033 EA 24" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	84.70 15.94	15.78
10 14 53 11-0034 EA 24" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	95.32 19.13	15.78
10 14 53 11-0035 EA 24" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	112.96 22.32	19.29
10 14 53 11-0036 EA 24" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	123.59 25.51	19.29
10 14 53 11-0037 EA 24" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	134.21 28.69	19.29
10 14 53 11-0038 EA 24" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	144.84 31.88	19.29
10 14 53 11-0039 EA 30" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	97.98 19.93	15.78
10 14 53 11-0040 EA 30" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	118.27 23.91	19.29
10 14 53 11-0041 EA 30" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	131.56 27.90	19.29
10 14 53 11-0042 EA 30" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	151.85 31.88	22.79
10 14 53 11-0043 EA 30" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	185.43 39.85	26.30
10 14 53 11-0044 EA 36" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	134.21 28.69	19.29
10 14 53 11-0045 EA 36" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	157.17 33.48	22.79
10 14 53 11-0046 EA 36" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	180.12 38.26	26.30
10 14 53 11-0047 EA 36" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	196.06 43.04	26.30
10 14 53 11-0048 EA 36" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	219.02 47.82	29.80
10 14 53 11-0049 EA 36" x 73" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	260.58 58.19	33.31
10 14 53 11-0050 EA 36" x 78" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	273.86 62.17	33.31
10 14 53 11-0051 EA 36" x 108" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	364.07 86.08	38.57
10 14 53 11-0052 EA 42" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	182.77 39.05	26.30
10 14 53 11-0053 EA 48" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	229.65 51.01	29.80
10 14 53 11-0054 EA 48" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	257.92 57.39	33.31
10 14 53 11-0055 EA 48" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	279.17 63.76	33.31
10 14 53 11-0056 EA 48" x 66" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	310.94 70.14	38.57
10 14 53 11-0057 EA 48" x 72" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	332.19 76.52	38.57
10 14 53 11-0058 EA 48" x 84" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	381.71 89.27	42.08
10 14 53 11-0059 EA 48" x 96" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	424.22 102.02	42.08
10 14 53 11-0060 EA 48" x 102" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	445.47 108.40	42.08
10 14 53 11-0061 EA 48" x 108" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	470.24 114.77	43.83
10 14 53 11-0062 EA 60" x 72" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	402.97 95.65	42.08
10 14 53 11-0063 EA 72" x 144" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	877.37 229.55	56.10
10 14 53 11-0064 EA 78" x 96" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	640.27 165.78	43.83
10 14 53 11-0065 Non-Reflectorized Traffic Signs <small>(10 14 53 11-0004)</small> Note: Includes reserved parking, handicap parking, visitor parking, no parking, tow away zones, etc. Excludes posts.		
10 14 53 11-0066 Steel Non-Reflectorized Traffic Signs <small>(10 14 53 11-0065)</small>		
10 14 53 11-0067 EA 6" x 12" Steel Non Reflectorized Traffic Sign.....	32.64	14.02
10 14 53 11-0068 EA 6" x 18" Steel Non Reflectorized Traffic Sign.....	34.94	14.02
10 14 53 11-0069 EA 9" x 12" Steel Non Reflectorized Traffic Sign.....	34.94	14.02
10 14 53 11-0070 EA 9" x 15" Steel Non Reflectorized Traffic Sign.....	36.66	14.02
10 14 53 11-0071 EA 9" x 18" Steel Non Reflectorized Traffic Sign.....	38.39	14.02
10 14 53 11-0072 EA 9" x 24" Steel Non Reflectorized Traffic Sign.....	43.58	14.91
10 14 53 11-0073 EA 9" x 48" Steel Non Reflectorized Traffic Sign.....	57.36	14.91
10 14 53 11-0074 EA 12" x 12" Steel Non Reflectorized Traffic Sign.....	37.24	14.02
10 14 53 11-0075 EA 12" x 18" Steel Non Reflectorized Traffic Sign.....	43.58	14.91
10 14 53 11-0076 EA 12" x 24" Steel Non Reflectorized Traffic Sign.....	48.17	14.91
10 14 53 11-0077 EA 12" x 30" Steel Non Reflectorized Traffic Sign.....	52.77	14.91
10 14 53 11-0078 EA 12" x 36" Steel Non Reflectorized Traffic Sign.....	57.36	14.91
10 14 53 11-0079 EA 18" x 18" Steel Non Reflectorized Traffic Sign.....	50.47	14.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0080 EA 18" x 24" Steel Non ReflectORIZED Traffic Sign.....	57.36	14.91
10 14 53 11-0081 EA 18" x 30" Steel Non ReflectORIZED Traffic Sign.....	66.01	15.78
10 14 53 11-0082 EA 18" x 36" Steel Non ReflectORIZED Traffic Sign.....	72.90	15.78
10 14 53 11-0083 EA 18" x 48" Steel Non ReflectORIZED Traffic Sign.....	93.69	19.29
10 14 53 11-0084 EA 18" x 54" Steel Non ReflectORIZED Traffic Sign.....	100.58	19.29
10 14 53 11-0085 EA 24" x 24" Steel Non ReflectORIZED Traffic Sign.....	68.31	15.78
10 14 53 11-0086 EA 24" x 30" Steel Non ReflectORIZED Traffic Sign.....	77.50	15.78
10 14 53 11-0087 EA 24" x 36" Steel Non ReflectORIZED Traffic Sign.....	86.68	15.78
10 14 53 11-0088 EA 24" x 42" Steel Non ReflectORIZED Traffic Sign.....	102.88	19.29
10 14 53 11-0089 EA 24" x 48" Steel Non ReflectORIZED Traffic Sign.....	112.07	19.29
10 14 53 11-0090 EA 24" x 54" Steel Non ReflectORIZED Traffic Sign.....	121.25	19.29
10 14 53 11-0091 EA 24" x 60" Steel Non ReflectORIZED Traffic Sign.....	130.44	19.29
10 14 53 11-0092 EA 30" x 30" Steel Non ReflectORIZED Traffic Sign.....	88.98	15.78
10 14 53 11-0093 EA 30" x 36" Steel Non ReflectORIZED Traffic Sign.....	107.47	19.29
10 14 53 11-0094 EA 30" x 42" Steel Non ReflectORIZED Traffic Sign.....	118.96	19.29
10 14 53 11-0095 EA 30" x 48" Steel Non ReflectORIZED Traffic Sign.....	137.45	22.79
10 14 53 11-0096 EA 30" x 60" Steel Non ReflectORIZED Traffic Sign.....	167.43	26.30
10 14 53 11-0097 EA 36" x 36" Steel Non ReflectORIZED Traffic Sign.....	121.25	19.29
10 14 53 11-0098 EA 36" x 42" Steel Non ReflectORIZED Traffic Sign.....	142.05	22.79
10 14 53 11-0099 EA 36" x 48" Steel Non ReflectORIZED Traffic Sign.....	162.84	26.30
10 14 53 11-0100 EA 36" x 54" Steel Non ReflectORIZED Traffic Sign.....	176.62	26.30
10 14 53 11-0101 EA 36" x 60" Steel Non ReflectORIZED Traffic Sign.....	197.42	29.80
10 14 53 11-0102 EA 36" x 73" Steel Non ReflectORIZED Traffic Sign.....	234.30	33.31
10 14 53 11-0103 EA 36" x 78" Steel Non ReflectORIZED Traffic Sign.....	245.78	33.31
10 14 53 11-0104 EA 36" x 108" Steel Non ReflectORIZED Traffic Sign.....	325.19	38.57
10 14 53 11-0105 EA 42" x 42" Steel Non ReflectORIZED Traffic Sign.....	165.13	26.30
10 14 53 11-0106 EA 48" x 48" Steel Non ReflectORIZED Traffic Sign.....	206.61	29.80
10 14 53 11-0107 EA 48" x 54" Steel Non ReflectORIZED Traffic Sign.....	232.00	33.31
10 14 53 11-0108 EA 48" x 60" Steel Non ReflectORIZED Traffic Sign.....	250.37	33.31
10 14 53 11-0109 EA 48" x 66" Steel Non ReflectORIZED Traffic Sign.....	279.26	38.57
10 14 53 11-0110 EA 48" x 72" Steel Non ReflectORIZED Traffic Sign.....	297.63	38.57
10 14 53 11-0111 EA 48" x 84" Steel Non ReflectORIZED Traffic Sign.....	341.39	42.08
10 14 53 11-0112 EA 48" x 96" Steel Non ReflectORIZED Traffic Sign.....	378.14	42.08
10 14 53 11-0113 EA 48" x 102" Steel Non ReflectORIZED Traffic Sign.....	396.51	42.08
10 14 53 11-0114 EA 48" x 108" Steel Non ReflectORIZED Traffic Sign.....	418.40	43.83
10 14 53 11-0115 EA 60" x 72" Steel Non ReflectORIZED Traffic Sign.....	359.77	42.08
10 14 53 11-0116 EA 72" x 144" Steel Non ReflectORIZED Traffic Sign.....	773.69	56.10
10 14 53 11-0117 EA 78" x 96" Steel Non ReflectORIZED Traffic Sign.....	565.39	43.83
10 14 53 11-0118 Aluminum Non-ReflectORIZED Traffic Signs (10 14 53 11-0065)		
10 14 53 11-0119 EA 6" x 12" Aluminum Non ReflectORIZED Traffic Sign.....	32.83	14.02
10 14 53 11-0120 EA 6" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	35.22	14.02
10 14 53 11-0121 EA 9" x 12" Aluminum Non ReflectORIZED Traffic Sign.....	35.22	14.02
10 14 53 11-0122 EA 9" x 15" Aluminum Non ReflectORIZED Traffic Sign.....	37.01	14.02
10 14 53 11-0123 EA 9" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	38.81	14.02
10 14 53 11-0124 EA 9" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	44.14	14.91
10 14 53 11-0125 EA 9" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	58.48	14.91
10 14 53 11-0126 EA 12" x 12" Aluminum Non ReflectORIZED Traffic Sign.....	37.61	14.02
10 14 53 11-0127 EA 12" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	44.14	14.91
10 14 53 11-0128 EA 12" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	48.92	14.91
10 14 53 11-0129 EA 12" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	53.70	14.91
10 14 53 11-0130 EA 12" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	58.48	14.91
10 14 53 11-0131 EA 18" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	51.31	14.91
10 14 53 11-0132 EA 18" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	58.48	14.91
10 14 53 11-0133 EA 18" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	67.42	15.78
10 14 53 11-0134 EA 18" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	74.59	15.78
10 14 53 11-0135 EA 18" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	95.94	19.29
10 14 53 11-0136 EA 18" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	103.11	19.29
10 14 53 11-0137 EA 24" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	69.81	15.78
10 14 53 11-0138 EA 24" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	79.37	15.78
10 14 53 11-0139 EA 24" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	88.93	15.78
10 14 53 11-0140 EA 24" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	105.50	19.29
10 14 53 11-0141 EA 24" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	115.06	19.29
10 14 53 11-0142 EA 24" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	124.62	19.29
10 14 53 11-0143 EA 24" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	134.19	19.29
10 14 53 11-0144 EA 30" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	91.32	15.78
10 14 53 11-0145 EA 30" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	110.28	19.29
10 14 53 11-0146 EA 30" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	122.23	19.29
10 14 53 11-0147 EA 30" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	141.20	22.79
10 14 53 11-0148 EA 30" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	172.11	26.30
10 14 53 11-0149 EA 36" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	124.62	19.29
10 14 53 11-0150 EA 36" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	145.98	22.79
10 14 53 11-0151 EA 36" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	167.33	26.30
10 14 53 11-0152 EA 36" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	181.67	26.30
10 14 53 11-0153 EA 36" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	203.03	29.80
10 14 53 11-0154 EA 36" x 73" Aluminum Non ReflectORIZED Traffic Sign.....	241.13	33.31
10 14 53 11-0155 EA 36" x 78" Aluminum Non ReflectORIZED Traffic Sign.....	253.08	33.31
10 14 53 11-0156 EA 36" x 108" Aluminum Non ReflectORIZED Traffic Sign.....	335.30	38.57
10 14 53 11-0157 EA 42" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	169.72	26.30
10 14 53 11-0158 EA 48" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	212.60	29.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0159 EA 48" x 54" Aluminum Non Reflectorized Traffic Sign	238.74	33.31
10 14 53 11-0160 EA 48" x 60" Aluminum Non Reflectorized Traffic Sign	257.86	33.31
10 14 53 11-0161 EA 48" x 66" Aluminum Non Reflectorized Traffic Sign	287.50	38.57
10 14 53 11-0162 EA 48" x 72" Aluminum Non Reflectorized Traffic Sign	306.62	38.57
10 14 53 11-0163 EA 48" x 84" Aluminum Non Reflectorized Traffic Sign	351.87	42.08
10 14 53 11-0164 EA 48" x 96" Aluminum Non Reflectorized Traffic Sign	390.12	42.08
10 14 53 11-0165 EA 48" x 102" Aluminum Non Reflectorized Traffic Sign	409.24	42.08
10 14 53 11-0166 EA 48" x 108" Aluminum Non Reflectorized Traffic Sign	431.88	43.83
10 14 53 11-0167 EA 60" x 72" Aluminum Non Reflectorized Traffic Sign	371.00	42.08
10 14 53 11-0168 EA 72" x 144" Aluminum Non Reflectorized Traffic Sign	800.65	56.10
10 14 53 11-0169 EA 78" x 96" Aluminum Non Reflectorized Traffic Sign	584.86	43.83
10 14 53 11-0170 Aluminum Street Signs (10 14 53 11-0004) Note: Excludes posts.		
10 14 53 11-0171 Aluminum Engineer Grade Street Signs (10 14 53 11-0170)		
10 14 53 11-0172 EA 6" High, Aluminum Engineer Grade Street Sign	57.96	7.01
10 14 53 11-0173 EA 8" High, Aluminum Engineer Grade Street Sign	65.72	7.01
10 14 53 11-0174 EA 9" High, Aluminum Engineer Grade Street Sign	71.50	7.01
10 14 53 11-0175 Street Sign Accessories (10 14 53 11-0170)		
10 14 53 11-0176 EA Post Cap And Single Bracket For Street Sign.....	17.58	3.51
10 14 53 11-0177 EA Post Cap And Double Bracket For Street Sign	17.58	3.51
10 14 53 11-0178 Sign Posts (10 14 53 11-0004) Note: Excludes sign. See CSI section 32 31 13 13-0001 for auguring of holes and backfill.		
10 14 53 11-0179 U-Channel Sign Posts (10 14 53 11-0178) Note: Excludes digging and concrete.		
10 14 53 11-0180 Baked Enamel U-Channel Sign Posts (10 14 53 11-0179)		
10 14 53 11-0181 EA 3' To 4' Baked Enamel U-Channel Sign Post Base.....	46.94	14.30
10 14 53 11-0182 EA 6' Baked Enamel U-Channel Sign Post.....	61.55	17.88
10 14 53 11-0183 EA 7' Baked Enamel U-Channel Sign Post.....	73.49	21.45
10 14 53 11-0184 EA 8' Baked Enamel U-Channel Sign Post.....	86.04	25.03
10 14 53 11-0185 EA 10' Baked Enamel U-Channel Sign Post.....	103.83	30.39
10 14 53 11-0186 EA 12' Baked Enamel U-Channel Sign Post.....	106.77	30.39
10 14 53 11-0187 Galvanized Steel U-Channel Sign Posts (10 14 53 11-0179)		
10 14 53 11-0188 EA 3' To 4' Galvanized Steel U-Channel Sign Post Base.....	50.72	14.30
10 14 53 11-0189 EA 6' Galvanized Steel U-Channel Sign Post.....	67.55	17.88
10 14 53 11-0190 EA 7' Galvanized Steel U-Channel Sign Post.....	87.06	21.45
10 14 53 11-0191 EA 8' Galvanized Steel U-Channel Sign Post.....	101.04	25.03
10 14 53 11-0192 EA 10' Galvanized Steel U-Channel Sign Post.....	114.75	30.39
10 14 53 11-0193 EA 12' Galvanized Steel U-Channel Sign Post.....	116.27	30.39
10 14 53 11-0194 Fiberglass Or Composite Plastic U-Channel Sign Posts (10 14 53 11-0179)		
10 14 53 11-0195 EA 3' To 4' Fiberglass Or Composite Plastic U-Channel Sign Post Base.....	46.05	14.30
10 14 53 11-0196 EA 6' Fiberglass Or Composite Plastic U-Channel Sign Post.....	59.61	17.88
10 14 53 11-0197 EA 7' Fiberglass Or Composite Plastic U-Channel Sign Post.....	71.15	21.45
10 14 53 11-0198 EA 8' Fiberglass Or Composite Plastic U-Channel Sign Post.....	83.25	25.03
10 14 53 11-0199 EA 10' Fiberglass Or Composite Plastic U-Channel Sign Post.....	98.77	30.39
10 14 53 11-0200 EA 12' Fiberglass Or Composite Plastic U-Channel Sign Post.....	103.77	30.39
10 14 53 11-0201 Tubular Sign Posts (10 14 53 11-0178) Note: Excludes digging and concrete.		
10 14 53 11-0202 2-3/8" Diameter, Galvanized Steel Tubular Sign Post (10 14 53 11-0201)		
10 14 53 11-0203 EA 6', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	68.17	17.88
10 14 53 11-0204 EA 7', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	80.90	21.45
10 14 53 11-0205 EA 8', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	95.54	25.03
10 14 53 11-0206 EA 10', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	122.96	30.39
10 14 53 11-0207 EA 12', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	133.26	30.39
10 14 53 11-0208 Square Sign Posts (10 14 53 11-0178) Note: Excludes digging and concrete.		
10 14 53 11-0209 Galvanized Steel Square Sign Posts (10 14 53 11-0208)		
10 14 53 11-0210 EA 3' To 4' Galvanized Steel Square Sign Post Base	51.56	14.30
10 14 53 11-0211 EA 6' Galvanized Steel Square Sign Post	81.76	17.88
10 14 53 11-0212 EA 7' Galvanized Steel Square Sign Post	95.90	21.45
10 14 53 11-0213 EA 8' Galvanized Steel Square Sign Post	111.86	25.03
10 14 53 11-0214 EA 10' Galvanized Steel Square Sign Post	136.58	30.39
10 14 53 11-0215 EA 12' Galvanized Steel Square Sign Post	143.77	30.39



Specialties	10	10
Information Specialties	10 10	
Signage	10 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0216 Other Sign Posts And Bases <small>(10 14 53 11-0004)</small> Note: For breakaway post systems, base posts are driven in, sign posts bolted to base post using lap splice hardware kit.		
10 14 53 11-0217 2.5 LB/FT Breakaway Sign Posts And Base Posts <small>(10 14 53 11-0216)</small>		
10 14 53 11-0218 Base Posts, 2.5 LB/LF, For Breakaway Sign Posts <small>(10 14 53 11-0217)</small>		
10 14 53 11-0219 EA Base Post for 2.5 LB/LF Breakaway Sign Post.....	64.41	17.53
10 14 53 11-0220 EA Lap Splice Hardware For 2.5 LB/LF Breakaway Sign Post.....	36.35	14.02
10 14 53 11-0221 Breakaway Sign Posts, 2.5 LB/LF <small>(10 14 53 11-0217)</small>		
10 14 53 11-0222 LF 2.5 LB/LF Breakaway Sign Post.....	7.27	1.76
10 14 53 11-0223 4 LB/FT Breakaway Sign Posts And Base Posts <small>(10 14 53 11-0216)</small>		
10 14 53 11-0224 Base Posts, 4 LB/LF, For Breakaway Sign Posts <small>(10 14 53 11-0223)</small>		
10 14 53 11-0225 EA Base Post For 4 LB/LF Breakaway Sign Post.....	66.90	21.04
10 14 53 11-0226 EA Lap Splice Hardware for 4 LB/LF Breakaway Sign Post.....	36.35	14.02
10 14 53 11-0227 Breakaway Sign Posts, 4 LB/LF <small>(10 14 53 11-0223)</small>		
10 14 53 11-0228 LF 4 LB/LF Breakaway Sign Post.....	8.81	1.76
10 14 53 11-0229 Driven Sign Posts <small>(10 14 53 11-0216)</small>		
10 14 53 11-0230 Driven Posts, 2.5 LB/LF <small>(10 14 53 11-0229)</small>		
10 14 53 11-0231 LF 2.5 LB/LF Driven Post.....	7.97	2.46
10 14 53 11-0232 Driven Posts, 4 LB/LF <small>(10 14 53 11-0229)</small>		
10 14 53 11-0233 LF 4 LB/LF Driven Post.....	9.86	2.81
10 14 53 11-0234 Omni-Directional Breakaway System For Sign Posts And Light Poles <small>(10 14 53 11-0216)</small>		
10 14 53 11-0235 Omni-Directional Breakaway Systems For Signs <small>(10 14 53 11-0234)</small> Note: Break-Safe as manufactured by Trampo Industries. Tasks are organized by post type and size. Includes hinges, anchors, all associated parts and drilling.		
10 14 53 11-0236 EA Omni-Directional Breakaway System For 6" To 8" Wide Flange (Trampo B525).....	811.63	
10 14 53 11-0237 EA Omni-Directional Breakaway System For 10" To 21" Wide Flange (Trampo B650).....	864.79	
10 14 53 11-0238 EA Omni-Directional Breakaway System For Standard I Beam Or W6x9 Flange (Trampo A14 And A16).....	592.88	
10 14 53 11-0239 EA Omni-Directional Breakaway System For 3" To 4.5" Outside Diameter Pipe (Trampo A3 And A4.5).....	519.28	
10 14 53 11-0240 EA Omni-Directional Breakaway System For Square Tube (Trampo AS3 And AS4).....	588.79	
10 14 53 11-0241 EA Omni-Directional Breakaway System For U-Channels (Trampo AU4 To AU6).....	560.17	
10 14 53 11-0242 EA Omni-Directional Breakaway System For U-Channels Embedded (Trampo AUX4 To AUX6).....	607.19	
10 14 53 11-0243 Omni-Directional Breakaway Systems For Poles <small>(10 14 53 11-0234)</small> Note: Pole-Safe as Manufactured by Trampo Industries. Tasks are organized by bolt size. Includes four couplings, all associated parts, drilling and can be for new or for retro-fitting existing poles.		
10 14 53 11-0244 EA Omni-Directional Breakaway System For Poles With 5/8" Couplings.....	280.86	
10 14 53 11-0245 EA Omni-Directional Breakaway System For Poles With 3/4" Couplings.....	294.45	
10 14 53 11-0246 EA Omni-Directional Breakaway System For Poles With 1" Couplings.....	305.77	
10 14 53 11-0247 EA Omni-Directional Breakaway System For Poles With 1 1/4" Couplings.....	464.33	
10 14 53 11-0248 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 10" To Less Than 15".....	40.77	
10 14 53 11-0249 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 15" To 20".....	54.35	
10 14 53 11-0250 Wood Posts <small>(10 14 53 11-0216)</small> Note: The quantity is the total length, including the buried portion. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
10 14 53 11-0251 LF 4" x 4" Pressure Treated Wood Sign Post.....	8.51	
10 14 53 11-0252 Sign Post Accessories <small>(10 14 53 11-0004)</small>		
10 14 53 11-0253 Sign Post Brackets <small>(10 14 53 11-0252)</small>		
10 14 53 11-0254 EA 2-3/8" Outside Diameter, Single Sign Bracket Set.....	23.21	5.26
10 14 53 11-0255 EA 2-3/8" Outside Diameter, Double Sign Bracket Set.....	41.82	8.77
10 14 53 11-0256 EA 10 cm - 37 cm Diameter, Buckle Bracket Set.....	36.01	7.01
10 14 53 11-0257 Sign Post Caps <small>(10 14 53 11-0252)</small>		
10 14 53 11-0258 EA Traffic Sign Post Cap.....	12.90	3.51
10 14 53 11-0259 Sign Post Replacement Bolts <small>(10 14 53 11-0252)</small>		
10 14 53 11-0260 EA Signage Fasteners, 2 Bolts, 2 Nuts And 4 Washers.....	9.00	

10	10 Specialties
	10 10 Information Specialties
	10 14 Signage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 14 53 11-0261	Reflective Panels For "U" Channel Post <small>(10 14 53 11-0252)</small>		
10 14 53 11-0262	EA 3" x 72" Reflective Panel For "U-Channel" Post.....	45.90	
	Note: Diamond grade panel including mounting hardware.		
10 14 53 11-0263	Removal Of Signs <small>(10 14 53 11)</small>		
	Note: Includes structural supports.		
10 14 53 11-0264	EA >4 To 10 SF Sign Area, Sign Removal.....	140.26	
10 14 53 11-0265	EA >10 To 20 SF Sign Area, Sign Removal.....	336.62	
10 14 53 11-0266	EA >20 To 40 SF Sign Area, Sign Removal.....	504.93	
10 14 53 11-0267	EA >40 To 100 SF Sign Area, Sign Removal.....	819.44	
10 14 53 11-0268	Remove And Reinstall Signs <small>(10 14 53 11)</small>		
	Note: Includes structural supports.		
10 14 53 11-0269	EA >4 To 10 SF Sign Area, Removal And Reinstallation Of Sign.....	213.68	
10 14 53 11-0270	EA >10 To 20 SF Sign Area, Removal And Reinstallation Of Sign.....	507.28	
10 14 53 11-0271	EA >20 SF To 40 SF Sign Area, Removal And Reinstallation Of Sign.....	759.39	
10 14 53 11-0272	EA >40 SF To 100 SF Sign Area, Removal And Reinstallation Of Sign.....	1,231.02	
10 14 53 11-0273	EA Removal And Reinstallation Of Street Sign On Post.....	80.65	
10 14 53 11-0274	EA Removal And Relocation Of Traffic Light.....	289.39	
	Note: Excludes electrical hookup.		

10 80 Other Specialties (10)

10 81 Pest Control Devices (10 80)

10 81 13 Bird Control Devices (10 81)

10 81 13 00-0001	Stainless Steel Spiked Bird Barrier <small>(10 81 13)</small>		
	Note: Stainless steel spikes with flexible polycarbonate base.		
10 81 13 00-0002	LF 2-1/2" To 3" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....	6.31	0.77
10 81 13 00-0003	LF 4-1/2" To 5" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....	7.61	0.77
10 81 13 00-0004	LF 8" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....	11.10	0.77
10 81 13 00-0005	Polycarbonate Spiked Bird Barrier <small>(10 81 13)</small>		
	Note: Polycarbonate spikes and base.		
10 81 13 00-0006	LF 3" Wide Polycarbonate Spikes And Base Bird Deterrent System.....	5.85	0.77
10 81 13 00-0007	LF 5" Wide Polycarbonate Spikes And Base Bird Deterrent System.....	7.09	0.77
10 81 13 00-0008	LF 8" Wide Polycarbonate Spikes And Base Bird Deterrent System.....	8.48	0.77
10 81 13 00-0009	Spiked Gutter Or Girder Bird Barrier <small>(10 81 13)</small>		
	Note: Stainless steel spikes with flexible polycarbonate base mounted to gutter or girder. Includes aluminum clamps.		
10 81 13 00-0010	LF Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System For Gutter Or Girder Application.....	6.56	0.77
10 81 13 00-0011	Coil Bird Barrier <small>(10 81 13)</small>		
	Note: Stainless steel coil.		
10 81 13 00-0012	LF 4" Diameter Stainless Steel Coil Bird Deterrent System.....	4.82	0.77
10 81 13 00-0013	LF 5" Diameter Stainless Steel Coil Bird Deterrent System.....	5.62	0.77
10 81 13 00-0014	Spider Bird Barrier <small>(10 81 13)</small>		
	Note: Stainless steel arms with various bases.		
10 81 13 00-0015	EA 2' Diameter Stainless Steel Spider Bird Deterrent System.....	89.63	0.77
10 81 13 00-0016	EA 4' Diameter Stainless Steel Spider Bird Deterrent System.....	129.89	0.77
10 81 13 00-0017	EA 8' Diameter Stainless Steel Spider Bird Deterrent System.....	161.90	0.77
10 81 13 00-0018	Oriented Flexible Flame-resistant Netting <small>(10 81 13)</small>		
	Note: Includes stainless steel rings and plastic ties.		
10 81 13 00-0019	SF 1/8" x 1/8" Mesh Flexible Polypropylene Netting.....	0.68	0.28
	Note: To control bird and marine predators.		
10 81 13 00-0020	SF 1/4" x 1/4" Mesh Flexible Polypropylene Netting.....	0.67	0.28
	Note: To control bird and marine predators.		
10 81 13 00-0021	SF 1/2" x 1/2" Mesh Flexible Polypropylene Netting.....	0.65	0.28
	Note: To control bird and marine predators.		
10 81 13 00-0022	SF 3/4" x 3/4" Mesh Flexible Polypropylene Netting.....	0.64	0.28
	Note: To control bird and marine predators.		
10 81 13 00-0023	SF 1" x 1" Mesh Flexible Polypropylene Netting.....	0.64	0.28
	Note: To control bird and marine predators.		
10 81 13 00-0024	SF 1-1/8" x 1-1/8" Mesh Flexible Polypropylene Netting.....	0.63	0.28
	Note: To control bird and marine predators.		
10 81 13 00-0025	SF 2" x 2" Mesh Flexible Polypropylene Netting.....	0.62	0.28
	Note: To control bird and marine predators.		



Specialties	10	10
Other Specialties	10 80	
Pest Control Devices	10 81	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 81 13 00-0026 SF 3" x 3" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.62	0.28
10 81 13 00-0027 SF 4" x 4" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.61	0.28
10 81 13 00-0028 SF 5/8" x 3/4" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.65	0.28
10 81 13 00-0029 SF 1-1/4" x 1-1/2" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.63	0.28
10 81 13 00-0030 EA Poly Clips For Flexible Netting.....	2.25	
10 81 13 00-0031 Netting Accessories (10 81 13)		
10 81 13 00-0032 EA 2' Zipper For Flexible Netting.....	5.03	
10 81 13 00-0033 EA 4' Zipper For Flexible Netting.....	7.58	
10 81 13 00-0034 EA 6' Zipper For Flexible Netting.....	8.91	
10 81 13 00-0035 EA 8' Zipper For Flexible Netting.....	12.67	
10 81 16 Insect Control Devices (10 81)		
10 81 16 00-0001 Insect Screening (10 81 16)		
10 81 16 00-0002 CSF 17/14 Mesh Insect Screening With Flat Screen Spines.....	81.27	

END OF SECTION 10

10	10	Specialties
	10 80	Other Specialties
	10 81	Pest Control Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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Equipment	11	
Entertainment and Recreation Equipment	11 60	11
Play Field Equipment And Structures	11 68	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 Equipment

11 60 Entertainment and Recreation Equipment ⁽¹¹⁾

11 68 Play Field Equipment And Structures ^(11 60)

11 68 13 Playground Equipment ^(11 68)

See CSI section 32 31 13 13-0001 for augering holes and fill for posts.

11 68 13 00-0001	Standalone Playground Equipment ^(11 68 13)		
11 68 13 00-0002	Ground Socket For Movable Posts ^(11 68 13 00-0001)		
11 68 13 00-0003	PR Ground Socket For 2-3/8" Post For Playground Equipment	197.68	47.56
11 68 13 00-0004	PR Ground Socket For 3-1/2" Post For Playground Equipment	285.99	47.56
11 68 13 00-0005	See-Saws ^(11 68 13 00-0001)		
11 68 13 00-0006	Steel See-Saw ^(11 68 13 00-0005)		
11 68 13 00-0007	EA 2 Unit Steel See-Saw	1,591.05	292.68
11 68 13 00-0008	EA 4 Unit Steel See-Saw	2,488.91	345.88
11 68 13 00-0009	EA 6 Unit Steel See-Saw	3,411.90	422.76
11 68 13 00-0010	14' Long Laminated Beam ^(11 68 13 00-0005)		
11 68 13 00-0011	EA Beam Is Supported By Two 12 In x 12 In Stepping Column Posts	1,609.01	258.80
11 68 13 00-0012	EA Beam Is Supported By Two 8 In x 8 In Posts	1,140.97	230.54
11 68 13 00-0013	Slides ^(11 68 13 00-0001)		
11 68 13 00-0014	EA 8' Long x 4' High Slide With Stainless Steel Bed	1,811.97	334.68
11 68 13 00-0015	EA 12' Long x 6' High Slide With Stainless Steel Bed	2,554.48	475.60
11 68 13 00-0016	EA 16' Long x 8' High Slide With Stainless Steel Bed	2,830.61	528.44
11 68 13 00-0017	EA 20' Long x 10' High Slide With Stainless Steel Bed	3,486.68	585.38
11 68 13 00-0018	EA 6' High, 360 Degree One Piece Molded Polyethylene Slide	6,415.26	920.83
11 68 13 00-0019	EA 7' High, 360 Degree Slide, Stainless Steel Bed	9,972.14	949.93
11 68 13 00-0020	EA 9' High, 360 Degree Slide, Stainless Steel Bed	12,421.97	998.40
11 68 13 00-0021	Whirlers ^(11 68 13 00-0001)		
11 68 13 00-0022	EA 8' Diameter Whirler	4,177.03	634.13
11 68 13 00-0023	EA 10' Diameter Whirler	4,867.69	760.95
11 68 13 00-0024	Other Standalone Playground Equipment ^(11 68 13 00-0001)		
11 68 13 00-0025	Miscellaneous Standalone Playground Equipment ^(11 68 13 00-0024)		
11 68 13 00-0026	EA Horizontal Ladder	1,292.25	169.47
11 68 13 00-0027	EA Tether Ball Post	225.21	33.11
11 68 13 00-0028	PR 10'-6" Long Multiple Purpose Post	349.31	58.55
11 68 13 00-0029	EA 3-Person Fiberglass Golf Tee Shelter Turntable	2,662.89	165.43
11 68 13 00-0030	EA Horizontal Turning Bars, 1 Bar	427.17	88.44
11 68 13 00-0031	EA Horizontal Turning Bars, 2 Bars	570.40	105.70
11 68 13 00-0032	EA Horizontal Turning Bars, 3 Bars	768.24	140.93
11 68 13 00-0033	EA Horizontal Turning Bars, 5 Bars	1,117.12	193.78
11 68 13 00-0034	EA Top Goal Opening With 4 Exit Holes (One Each Side) And 8' Pole	1,107.59	80.68
11 68 13 00-0035	EA Top Goal Opening With 4 Exit Holes (One Each Side) And 10' Pole	1,218.58	87.10
11 68 13 00-0036	EA Coil Spring With Single Riding Aluminum Saddle Devices	1,196.51	93.37
11 68 13 00-0037	EA "C" Spring With Single Riding Aluminum Saddle Devices	1,167.37	80.33
11 68 13 00-0038	EA Rubber Spring With Single Riding Aluminum Saddle Devices	1,441.04	105.20
11 68 13 00-0039	EA Coil Spring Assembly Only	312.07	38.68
11 68 13 00-0040	EA "C" Spring Assembly Only	207.41	25.79
11 68 13 00-0041	EA Rubber Spring Assembly Only	217.48	50.31
11 68 13 00-0042	EA Footbuck Assembly Only	53.94	6.77
11 68 13 00-0043	EA Replacement Animal Only	765.53	54.82
11 68 13 00-0044	EA Two Seat, Two Spring Action Cars (4'-8" x 2'-8")	1,355.24	96.75
11 68 13 00-0045	Freestanding Panels ^(11 68 13 00-0024)		
	Note: Rotomolded polyethylene.		
11 68 13 00-0046	EA Tic-Tac-Toe Panel	577.21	41.44
11 68 13 00-0047	EA 24" Bubble Panel	864.68	62.08
11 68 13 00-0048	EA Fire Engine Panel	1,268.95	91.11
11 68 13 00-0049	EA Flat Mirror Panel	1,015.17	72.93
11 68 13 00-0050	EA Wavy Mirror Panel	1,502.53	107.95
11 68 13 00-0051	EA Paint Time Panel	974.74	70.04
11 68 13 00-0052	EA Phone Time Panel	691.74	49.68
11 68 13 00-0053	EA Phone Time With Graphic Panel	691.74	49.68
11 68 13 00-0054	EA Race Time Panel	1,212.80	87.10

11 Equipment**11 60 Entertainment and Recreation Equipment****11 68 Play Field Equipment And Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 13 00-0055 EA Rescue 911 Panel.....	1,230.11	87.10
11 68 13 00-0056 EA Eastern/Central/Western States Panel.....	662.55	47.57
11 68 13 00-0057 EA Career People Panel.....	752.38	54.04
11 68 13 00-0058 EA Solar System Panel.....	752.38	54.04
11 68 13 00-0059 EA Animals Panel.....	752.38	54.04
11 68 13 00-0060 Freestanding Panels Uprights <small>(11 68 13 00-0024)</small>		
11 68 13 00-0061 EA 3-1/2" Outside Diameter End Panel Upright.....	184.93	23.25
11 68 13 00-0062 EA 3-1/2" Outside Diameter 90 Degree Upright.....	200.35	25.16
11 68 13 00-0063 EA 3-1/2" Outside Diameter 180 Degree Upright.....	200.35	25.16
11 68 13 00-0064 EA 3-1/2" Outside Diameter "T-Shaped" Upright.....	213.19	26.78
11 68 13 00-0065 Coasters <small>(11 68 13 00-0024)</small>		
11 68 13 00-0066 EA 12' Single Metal Coaster With Four Posts.....	4,443.20	281.86
11 68 13 00-0067 EA 18' Single Metal Coaster With Four Posts.....	4,989.44	352.33
11 68 13 00-0068 EA 12' Double Metal Coaster With Four Posts.....	7,168.65	422.79
11 68 13 00-0069 EA 18' Double Metal Coaster With Four Posts.....	8,179.32	528.50
11 68 13 00-0070 Climbers <small>(11 68 13 00-0024)</small>		
11 68 13 00-0071 EA Tower Climber, 3.17' Diameter x 7.25' High.....	891.43	188.28
11 68 13 00-0072 EA Arch Climber, 2' x 12' x 4.5' High.....	821.62	230.57
11 68 13 00-0073 EA Arch Climber, 2' x 15' x 5.83' High.....	883.33	188.28
11 68 13 00-0074 EA Arch Climber, 2' x 17' x 6.58' High.....	941.78	230.57
11 68 13 00-0075 EA Rainbow Climber, 2' x 10'-5" x 4' High.....	1,001.34	188.07
11 68 13 00-0076 EA Rainbow Climber, 2' x 10'-5" x 5' High.....	1,109.52	188.14
11 68 13 00-0077 EA Rainbow Climber, 2' x 12'-5" x 6' High.....	1,275.23	188.14
11 68 13 00-0078 EA Rainbow Climber, 2' x 15'-4" x 7' High.....	1,383.59	188.07
11 68 13 00-0079 EA Double Level Arch Climber, 6' Wide x 12'-6" x 6' High Upper Section / 5' High Lower Section.....	1,665.63	220.21
11 68 13 00-0080 EA 12' Long Horizontal Ladder Climber.....	1,347.89	164.38
11 68 13 00-0081 EA 14' Long Horizontal Ladder Climber.....	1,366.13	164.38
11 68 13 00-0082 EA 16' Long Horizontal Ladder Climber.....	1,486.86	164.38
11 68 13 00-0083 EA Bell Climber, 7'-5" High With Double Bars.....	1,430.27	211.40
11 68 13 00-0084 EA 2-Way Climber.....	1,206.25	169.47
11 68 13 00-0085 EA 4-Way Climber.....	1,861.64	169.47
11 68 13 00-0086 Swings <small>(11 68 13 00-0001)</small>		
11 68 13 00-0087 Two-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail <small>(11 68 13 00-0086)</small>		
Note: Legs, 1-7/8" diameter, traditional.		
11 68 13 00-0088 EA 8' High Top Rail, One Section Two Seats.....	1,170.50	258.80
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	133.98	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	143.19	
11 68 13 00-0089 EA 8' High Top Rail, Two Sections Four Seats.....	1,855.71	370.33
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	213.47	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	232.26	
11 68 13 00-0090 EA 8' High Top Rail, Three Sections, Six Seats.....	2,571.54	544.93
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	295.48	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	320.23	
11 68 13 00-0091 EA 8' High Top Rail, Four Sections, Eight Seats.....	3,214.07	634.13
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	370.05	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	403.89	
11 68 13 00-0092 EA 10' High Top Rail, One Section Two Seats.....	1,240.34	258.80
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	142.71	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	155.41	
11 68 13 00-0093 EA 10' High Top Rail, Two Section Four Seats.....	1,948.95	394.42
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	223.36	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	239.77	
11 68 13 00-0094 EA 10' High Top Rail, Three Sections, Six Seats.....	2,703.58	612.50
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	308.77	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	327.24	
11 68 13 00-0095 EA 10' High Top Rail, Four Sections, Eight Seats.....	3,564.72	739.82
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	408.58	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	438.80	
11 68 13 00-0096 Three-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail <small>(11 68 13 00-0086)</small>		
Note: Legs, 1-7/8" diameter, traditional.		
11 68 13 00-0097 EA 8' High Top Rail, One Section, Two Seats.....	1,313.05	228.57
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	152.70	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	172.64	
11 68 13 00-0098 EA 8' High Top Rail, Two Sections, Four Seats.....	1,905.71	331.65
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	221.63	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	250.59	
11 68 13 00-0099 EA 8' High Top Rail, Three Sections, Six Seats.....	2,543.02	443.54
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	295.70	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	334.14	



Equipment	11
Entertainment and Recreation Equipment	11 60
Play Field Equipment And Structures	11 68

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68	13 00-0100	EA	8' High Top Rail, Four Sections, Eight Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,164.68 369.16 421.69	528.44
11 68	13 00-0101	EA	10' High Top Rail, One Section, Two Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	1,480.65 172.20 194.72	257.60
11 68	13 00-0102	EA	10' High Top Rail, One Section Three Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	1,542.09 179.75 204.80	273.17
11 68	13 00-0103	EA	10' High Top Rail, Two Sections, Four Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,067.58 240.42 271.67	360.61
11 68	13 00-0104	EA	10' High Top Rail, Two Sections, Six Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,468.35 288.74 332.94	415.71
11 68	13 00-0105	EA	10' High Top Rail, Three Section, Six Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,752.07 320.02 361.67	479.75
11 68	13 00-0106	EA	10' High Top Rail, Three Sections, Nine Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,392.60 397.65 461.68	528.65
11 68	13 00-0107	EA	10' High Top Rail, Four Section, Eight Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,503.59 406.24 454.56	634.13
11 68	13 00-0108	EA	12' High Top Rail, One Section Three Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	1,610.05 187.93 215.11	279.79
11 68	13 00-0109	EA	12' High Top Rail, Two Sections, Six Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,616.75 305.65 350.71	450.16
11 68	13 00-0110	EA	12' High Top Rail, Three Sections, Nine Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,851.93 446.26 497.94	721.01
11 68	13 00-0111		Swing Accessories <small>(11 68 13 00-0086)</small>		
11 68	13 00-0112	EA	Enclosed Tot Seat With Chain And Hardware	361.82	21.24
11 68	13 00-0113	EA	Bucket Seat With Chain And Hardware	300.79	17.67
11 68	13 00-0114	EA	Belt Seat With Chain And Hardware	320.40	18.86
11 68	13 00-0115	EA	Seat With Chain And Hardware	316.04	18.58
11 68	13 00-0116	EA	Wide Seat With Chain And Hardware	333.60	19.63
11 68	13 00-0117	EA	Handi Seat With Chain And Hardware	996.07	58.54
11 68	13 00-0118	LF	0.4 LB/LF Replacement Chain	4.26	0.42
11 68	13 00-0119	LF	1 LB/LF Replacement Chain	7.19	0.84
11 68	13 00-0120	EA	Swing Hanger Replacement	46.28	4.84
11 68	23		Exterior Court Athletic Equipment <small>(11 68)</small>		
11 68	23 13		Exterior Basketball Equipment <small>(11 68 23)</small>		
11 68	23 13-0001		Basketball Systems <small>(11 68 23 13)</small> See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
11 68	23 13-0002	EA	4-1/2" Bent Post Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Steel Net Basketball System (Sportsplay 541-616)	1,544.27	197.53
11 68	23 13-0003	EA	5-9/16" Bent Post Galvanized Steel Pole With 6' Extension Style, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00176-230) <i>For Fan Shaped Fiberglass Backboard, Deduct For 42" x 72" Perforated Steel Backboard, Add</i>	2,824.57 -133.00 350.00	217.28
11 68	23 13-0004	EA	4-1/2" Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00164-230) <i>For Fan Shaped Fiberglass Backboard, Deduct For 42" x 72" Perforated Steel Backboard, Add</i>	2,034.57 -133.00 350.00	197.53
11 68	23 13-0005	EA	5-9/16" Galvanized Steel Pole With 6' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00166-230) <i>For Fan Shaped Fiberglass Backboard, Deduct For 42" x 72" Perforated Steel Backboard, Add</i>	2,506.40 -133.00 350.00	217.28
11 68	23 13-0006	EA	Back To Back 4-1/2" Galvanized Steel Pole With 4' Extensions, Aluminum Backboards, Double Rim Goals And Nylon Net Double Basketball System (Porter Athletic 00184-230) <i>For Fan Shaped Fiberglass Backboard, Deduct For 42" x 72" Perforated Steel Backboard, Add</i>	3,209.37 -498.00 700.00	290.48
11 68	23 13-0007	EA	Back To Back 5-9/16" Galvanized Steel Pole With 6' Extensions, Aluminum Backboards, Double Rim Goals And Nylon Net Double Basketball System (Porter Athletic 00186-230) <i>For Fan Shaped Fiberglass Backboard, Deduct For 42" x 72" Perforated Steel Backboard, Add</i>	4,159.98 -498.00 700.00	319.53
11 68	23 13-0008		Basketball Components <small>(11 68 23 13)</small> See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
11 68	23 13-0009	EA	Anti-Whip, Nylon Cord Basketball Net (Porter Athletic 09608-120)	26.19	7.05
11 68	23 13-0010	EA	Chain Basketball Net (Porter Athletic 00161-000)	43.11	7.05
11 68	23 13-0011	EA	Heavy Duty Goal Ring (Porter Athletic 00235-000)	108.02	35.23
11 68	23 13-0012	EA	Goal Ring For Steel Net (Porter Athletic 00251-H00)	204.73	15.86
11 68	23 13-0013	EA	42" x 72" Rectangular Fully Tempered Glass Basketball Backboard With Steel Frame (Porter Athletic 00204-000) Note: Includes perimeter and target markings. Excludes pole and goal.	871.57	29.95

11 Equipment**11 60 Entertainment and Recreation Equipment****11 68 Play Field Equipment And Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 23 13-0014 EA 42" x 72" Rectangular 11 Gauge Perforated Steel Basketball Backboard (Porter Athletic 01207-300)	929.63	29.95
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 13-0015 EA 54" x 39" Fan Shaped Cast Aluminum Basketball Backboard (Porter Athletic 00234-300)	667.12	26.43
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 13-0016 EA 54" x 39" Fan Shaped Fiberglass Basketball Backboard (Porter Athletic 00267-000)	504.55	26.43
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 33 Tennis Equipment ^(11 68 23)		
11 68 23 33-0001 Tennis Court Net Posts ^(11 68 23 33)		
11 68 23 33-0002 PR Round, Powder Coated Steel, Tennis Court Net Posts With External Winder	793.56	119.78
11 68 23 33-0003 PR Round, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder	964.26	119.78
11 68 23 33-0004 PR Square, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder	992.71	119.78
11 68 23 33-0005 PR Round, Powder Coated Aluminum, Tennis Court Net Posts With External Winder	1,041.91	119.78
11 68 23 33-0006 PR Round, Powder Coated Aluminum, Tennis Court Net Posts With Internal Winder	1,217.09	119.78
11 68 23 33-0007 PR Polyvinyl Chloride (PVC) Ground Sleeves For Tennis Court Net Posts.....	196.40	
11 68 23 33-0008 PR Galvanized Steel Ground Sleeves For Tennis Court Net Posts.....	217.66	
11 68 23 33-0009 Tennis Court Nets ^(11 68 23 33)		
11 68 23 33-0010 EA 42' Length, Single Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net.....	396.75	118.37
11 68 23 33-0011 EA 42' Length, Double Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net	430.70	118.37
11 68 23 33-0012 EA 42' Length, Anti-Vandal, Aluminum Coated Flexible Steel Mesh, Tennis Court Net	899.61	182.14
11 68 23 33-0013 EA Galvanized Steel Anchor For Tennis Court Net Center Strap.....	52.98	
11 68 33 Athletic Field Equipment ^(11 68)		
11 68 33 13 Football Field Equipment ^(11 68 33)		
11 68 33 13-0001 Football Goal Posts ^(11 68 33 13)		
Note: Includes augering for post(s), set in concrete and backfill.		
11 68 33 13-0002 PR Double Steel Football Goal Posts, "H Shape".....	3,289.87	317.10
11 68 33 13-0003 PR Vertical Style Goal Post, Single In Ground Mounting, Steel With 20' Uprights.....	4,774.86	476.38
11 68 33 13-0004 PR Gooseneck (Offset) Style Goal Post, Single In Ground Mounting, Steel, With 20' Uprights.....	5,705.17	571.65
11 68 33 23 Soccer And Field Hockey Equipment ^(11 68 33)		
11 68 33 23-0001 Soccer Goal Posts ^(11 68 33 23)		
Note: Includes augering for post(s), set in concrete and backfill.		
11 68 33 23-0002 PR Regulation Soccer Goal Posts	2,975.54	211.38
11 68 33 23-0003 PR Combination Football/Soccer Goal Post	3,595.36	317.10
11 68 33 33 Baseball Field Equipment ^(11 68 33)		
11 68 33 33-0001 Bases ^(11 68 33 33)		
11 68 33 33-0002 SET Bases For Baseball Or Softball.....	336.85	
11 80 Facility Maintenance and Operation Equipment ⁽¹¹⁾		
11 82 Facility Solid Waste Handling Equipment ^(11 80)		
11 82 19 Packaged Incinerators ^(11 82)		
11 82 19 00-0001 Electric Incinerator ^(11 82 19)		
11 82 19 00-0002 EA Electric Package Incinerator, 100 LB/Hour	24,024.18	847.24
11 82 19 00-0003 EA Electric Package Incinerator, 400 LB/Hour	49,137.48	1,694.47
11 82 19 00-0004 EA Electric Package Incinerator, 1,000 LB/Hour	164,579.90	2,541.71
11 82 26 Facility Waste Compactors ^(11 82)		
11 82 26 00-0001 110 Volt Compactors ^(11 82 26)		
11 82 26 00-0002 EA Waste Compactor, 110 Volt At 75 LB/Hour.....	13,085.06	440.78
11 82 26 00-0003 EA Waste Compactor, 110 Volt At 250 LB/Hour.....	16,626.70	1,057.87
11 82 26 00-0004 230 Volt Compactors ^(11 82 26)		
11 82 26 00-0005 EA Waste Compactor, 230 Volt At 600 LB/Hour Hand Fed	16,755.92	1,410.50
11 82 26 00-0006 EA Waste Compactor, 230 Volt At 600 LB/Hour Chute Fed	19,015.25	1,851.27
11 82 26 00-0007 Trash Compactors ^(11 82 26)		
11 82 26 00-0008 EA Trash Compactor, Small	3,716.90	248.90
11 82 26 00-0009 EA Trash Compactor, Large.....	4,592.58	281.66



	Equipment	11	
	Facility Maintenance and Operation Equipment	11 80	11
	Facility Solid Waste Handling Equipment	11 82	

MINOR CSI	UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 11

11	11	Equipment
	11 80	Facility Maintenance and Operation Equipment
	11 82	Facility Solid Waste Handling Equipment



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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Special Construction	13	13
Integrated Construction	13 40	
Facility Protection	13 47	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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13 Special Construction

13 40 Integrated Construction ⁽¹³⁾

13 47 Facility Protection ^(13 40)

13 47 13 Cathodic Protection ^(13 47)

13 47 13 13 Cathodic Protection for Underground and Submerged Piping ^(13 47 13)

13 47 13 13-0001	EA	Anodes ^(13 47 13 13)		
13 47 13 13-0002	EA	Magnesium Type, Conventional ^(13 47 13 13-0001)		
13 47 13 13-0003	EA	9 LB Magnesium Type Anodes.....	296.03	136.46
13 47 13 13-0004	EA	17 LB Magnesium Type Anodes.....	434.76	197.23
13 47 13 13-0005	EA	32 LB Magnesium Type Anode.....	580.50	253.73
13 47 13 13-0006	EA	48 LB Magnesium Type Anode.....	821.52	355.01
13 47 13 13-0007	EA	Graphite Type ^(13 47 13 13-0001) Note: Includes epoxy cap.		
13 47 13 13-0008	EA	3" x 60" (32 LB) Graphite Type Anodes With Epoxy Cap	440.54	195.85
13 47 13 13-0009	EA	4" x 80" (68 LB) Graphite Type Anodes With Epoxy Cap	660.46	273.49
13 47 13 13-0010	EA	6" x 36" (45 LB) Graphite Type Anodes With Epoxy Cap	467.69	171.15
13 47 13 13-0011	EA	6" x 72" (80 LB) Graphite Type Anodes With Epoxy Cap	688.10	228.49
13 47 13 13-0012	EA	High Silicon Cast Iron Type ^(13 47 13 13-0001)		
13 47 13 13-0013	EA	2.66" x 84" High Silicon Cast Iron Anode, 70 LB	1,331.18	273.49
13 47 13 13-0014	EA	Metal Oxide Type ^(13 47 13 13-0001)		
13 47 13 13-0015	EA	1" x 60" Mixed Metal Oxide Anode, 5 LB	667.08	136.46
		Note: Includes center connected #8 HMWPE/HALAR Lead wire.		
13 47 13 13-0016	EA	Rectifiers ^(13 47 13 13)		
13 47 13 13-0017	EA	Air Cooled, Silicon Type ^(13 47 13 13-0016)		
13 47 13 13-0018	EA	Air Cooled Rectifiers, 28 Volt, 10 Amp Silicon Type	1,341.69	277.92
13 47 13 13-0019	EA	Air Cooled Rectifiers, 20 Volt / 20 Amp Silicon Type	1,439.78	277.92
13 47 13 13-0020	EA	Oil Immersed, Silicon Type ^(13 47 13 13-0016)		
13 47 13 13-0021	EA	Oil Immersed Rectifiers, 28 Volt, 10 Amp Silicon Type.....	1,973.44	321.35
13 47 13 13-0022	EA	Oil Immersed Rectifiers, 20 Volt / 20 Amp Silicon Type.....	2,078.54	321.35
13 47 13 13-0023	EA	Anode Backfill ^(13 47 13 13)		
13 47 13 13-0024	EA	Anode Backfill, Coke Breeze	0.89	0.35
13 47 13 13-0025	EA	Cathodic Protection Cable ^(13 47 13 13)		
13 47 13 13-0026	MLF	Cathodic Protection Cable, OR2 - No 8	1,710.23	684.61
13 47 13 13-0027	MLF	Cathodic Protection Cable, OR2 - No 6	1,861.28	684.61
13 47 13 13-0028	MLF	Cathodic Protection Cable, OR2 - No 4	2,087.84	684.61
13 47 13 13-0029	MLF	Cathodic Protection Cable, OR2 - No 2	2,465.44	684.61
13 47 13 13-0030	MLF	Cathodic Protection Cable, OR2 - No 1	3,016.34	754.30
13 47 13 13-0031	MLF	Cathodic Protection Cable, OR2-No 1/0	3,299.54	754.30
13 47 13 13-0032	MLF	Cathodic Protection Cable, OR2-No 2/0	3,771.55	754.30
13 47 13 13-0033	MLF	Cathodic Protection Cable, OR2-No 4/0	5,039.64	822.23
13 47 13 13-0034	EA	Cathodic Test Stations ^(13 47 13 13)		
13 47 13 13-0035	EA	Flush Curb Box Type With Lockable Cover And Terminal Box ^(13 47 13 13-0034)		
13 47 13 13-0036	EA	Cathodic Test Station, Flush Curb Type With Lockable Cover	209.43	80.09
13 47 13 16	EA	Cathodic Protection For Underground Storage Tanks ^(13 47 13) See CSI section 13 47 13 13-0000 for cathodic protection for tanks.		

END OF SECTION 13

13 Special Construction

13 40 Integrated Construction

13 47 Facility Protection



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR	CSI	UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

22 05 Common Work Results for Plumbing ⁽²²⁾

22 05 23 General-Duty Valves For Plumbing Piping ^(22 05)

22 05 23 00-0001 Earthquake-Sensitive Gas Shut-Off Valve ^(22 05 23)

22 05 23 00-0002 0.5 PSI Threaded Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0003	EA	3/4" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	152.60	10.51
22 05 23 00-0004	EA	1" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	172.56	11.95

22 05 23 00-0005 7 PSI Threaded Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0006	EA	1-1/4" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	201.25	12.71
22 05 23 00-0007	EA	1-1/2" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	272.17	14.71

22 05 23 00-0008 60 PSI Threaded Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0009	EA	3/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	189.28	10.51
22 05 23 00-0010	EA	1" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	198.03	11.95
22 05 23 00-0011	EA	1-1/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	221.62	12.71
22 05 23 00-0012	EA	1-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	302.73	14.71
22 05 23 00-0013	EA	2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	698.15	17.39
22 05 23 00-0014	EA	2-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	830.07	23.41
22 05 23 00-0015	EA	3" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,077.71	27.27
22 05 23 00-0016	EA	4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,249.15	30.79

22 05 23 00-0017 60 PSI Flanged Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0018	EA	2" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	974.30	127.38
22 05 23 00-0019	EA	3" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,200.85	149.53
22 05 23 00-0020	EA	4" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,689.51	250.68
22 05 23 00-0021	EA	6" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	2,768.88	298.68
22 05 23 00-0022	EA	8" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	7,503.82	381.66

22 05 23 00-0023 Regulators, Clay Valve ^(22 05 23)

22 05 23 00-0024	EA	4" Regulator - Clay Valve.....	1,236.68	
22 05 23 00-0025	EA	8" Regulator - Clay Valve.....	1,678.36	
22 05 23 00-0026	EA	10" Regulator - Clay Valve.....	2,314.52	
22 05 23 00-0027	EA	12" Regulator - Clay Valve.....	2,841.78	
22 05 23 00-0028	EA	18" Regulator - Clay Valve.....	4,780.27	
22 05 23 00-0029	EA	24" Regulator - Clay Valve.....	7,692.93	

22 05 76 Facility Drainage Piping Cleanouts ^(22 05)

22 05 76 00-0001 Cast Iron Cleanout With Plug And Cover ^(22 05 76)

Note: For floor installation.

22 05 76 00-0002 Cast Iron Cleanout With Plug And Round Or Square Cover ^(22 05 76 00-0001)

22 05 76 00-0003	EA	2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	530.60	50.84
		<i>For Vandal Proof, Add</i>	19.50	
		<i>For Galvanized Ferrule, Add</i>	45.00	
		<i>For Carpet Marker, Add</i>	16.00	
		<i>For Carpet Flange, Add</i>	58.50	
		<i>For Wide Flange, Add</i>	97.00	
		<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0004	EA	3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	574.18	63.74
		<i>For Vandal Proof, Add</i>	19.50	
		<i>For Galvanized Ferrule, Add</i>	45.00	
		<i>For Carpet Marker, Add</i>	16.00	
		<i>For Carpet Flange, Add</i>	58.50	
		<i>For Wide Flange, Add</i>	97.00	
		<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0005	EA	4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	716.72	77.02
		<i>For Vandal Proof, Add</i>	19.50	
		<i>For Galvanized Ferrule, Add</i>	45.00	
		<i>For Carpet Marker, Add</i>	16.00	
		<i>For Carpet Flange, Add</i>	58.50	
		<i>For Wide Flange, Add</i>	97.00	
		<i>For Satin Bronze Top, Deduct</i>	-24.00	

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0006 EA 5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,026.39	86.19
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0007 EA 6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,262.22	93.36
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0008 Cast Iron Heavy Duty Cleanout With Plug And Round Cover (22 05 76 00-0001)		
22 05 76 00-0009 EA 2" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	610.79	50.84
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0010 EA 3" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	655.57	63.65
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0011 EA 4" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	798.18	77.02
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0012 EA 5" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,107.90	86.19
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0013 EA 6" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,343.65	93.36
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0014 Wall Cover For Cleanout (22 05 76)		
Note: Cover and screw only.		
22 05 76 00-0015 Round Access Cover, Bronze Polished Top (22 05 76 00-0014)		
Note: Cover and screw only.		
22 05 76 00-0016 EA 4-1/4" Diameter Wall Cover For Cleanout, Screwed	80.22	15.96
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0017 EA 5-1/2" Diameter Wall Cover For Cleanout, Screwed	86.59	19.11
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0018 EA 7" Diameter Wall Cover For Cleanout, Screwed	110.46	21.50
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0019 EA 9-1/4" Diameter Wall Cover For Cleanout, Screwed	186.51	23.89
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0020 EA 11-1/4" Diameter Wall Cover For Cleanout, Screwed	280.40	26.28
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0021 Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)		
Note: Cover and screw only.		
22 05 76 00-0022 EA 7" x 7" Bronze Wall Or Floor Access Cover	418.00	15.96
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0023 EA 9" x 9" Bronze Wall Or Floor Access Cover	601.94	16.73
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0024 EA 10" x 10" Bronze Wall Or Floor Access Cover <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	643.19 19.50 22.50	17.68
22 05 76 00-0025 EA 14" x 14" Bronze Wall Or Floor Access Cover <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	719.47 19.50 22.50	20.07
22 05 76 00-0026 Secured Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014) Note: Cover and screw only.		
22 05 76 00-0027 EA 6" x 6" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	417.46 19.50 22.50	15.96
22 05 76 00-0028 EA 8" x 8" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	601.15 19.50 22.50	16.73
22 05 76 00-0029 EA 10" x 10" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	642.33 19.50 22.50	17.68
22 05 76 00-0030 EA 12" x 12" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	718.53 19.50 22.50	20.07
22 05 76 00-0031 Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated (22 05 76 00-0014) Note: Cover and screw only.		
22 05 76 00-0032 EA 6" x 6" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	404.97 19.50 22.50	15.96
22 05 76 00-0033 EA 8" x 8" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	560.09 19.50 22.50	16.73
22 05 76 00-0034 EA 10" x 10" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	794.08 19.50 22.50	17.68
22 05 76 00-0035 EA 12" x 12" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	961.32 19.50 22.50	20.07
22 05 76 00-0036 Cast Iron Cleanout Tee (22 05 76)		
22 05 76 00-0037 Cast Iron Cleanout Tee And Round Access Cover (22 05 76 00-0036) Note: Satin smooth secured cover.		
22 05 76 00-0038 EA 2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	386.39 19.50 88.80	50.84
22 05 76 00-0039 EA 3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	441.76 19.50 88.80	63.65
22 05 76 00-0040 EA 4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	576.50 19.50 88.80	77.02
22 05 76 00-0041 EA 6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,372.82 19.50 88.80	93.36
22 05 76 00-0042 Cast Iron Cleanout Tee And Square Access Cover (22 05 76 00-0036) Note: Satin smooth secured cover.		
22 05 76 00-0043 EA 2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	671.12 19.50 88.80	50.84
22 05 76 00-0044 EA 3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	726.50 19.50 88.80	63.65
22 05 76 00-0045 EA 4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	842.34 19.50 88.80	77.02
22 05 76 00-0046 EA 6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,757.41 19.50 88.80	93.36
22 05 76 00-0047 Cast Iron Cleanout Tee With Brass Plug (22 05 76 00-0036)		
22 05 76 00-0048 EA 2" Cleanout Tee With Cast Bronze Screw Plug	316.63	41.57
22 05 76 00-0049 EA 3" Cleanout Tee With Cast Bronze Screw Plug	353.96	45.39
22 05 76 00-0050 EA 4" Cleanout Tee With Cast Bronze Screw Plug	471.71	59.72
22 05 76 00-0051 EA 5" Cleanout Tee With Cast Bronze Screw Plug	708.27	70.72
22 05 76 00-0052 EA 6" Cleanout Tee With Cast Bronze Screw Plug	1,206.45	83.61
22 05 76 00-0053 Removable Cleanout Plug (22 05 76)		

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0054 Threaded Bronze Plugs (22 05 76 00-0053)		
22 05 76 00-0055 EA 1-1/4", 1-1/2" Or 2" Threaded Bronze Plug.....	59.51	11.95
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0056 EA 2-1/2" Threaded Bronze Plug.....	71.12	12.99
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0057 EA 3" Threaded Bronze Plug.....	120.77	14.33
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0058 EA 3-1/2" Threaded Bronze Plug.....	135.25	16.73
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0059 EA 4" Threaded Bronze Plug.....	152.95	19.11
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0060 EA 5" Threaded Bronze Plug.....	214.26	21.50
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0061 EA 6" Threaded Bronze Plug.....	314.31	23.89
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0062 EA 8" Threaded Bronze Plug.....	528.96	26.28
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0063 EA 10" Threaded Bronze Plug.....	759.82	28.66
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0064 Threaded Brass Plugs (22 05 76 00-0053)		
22 05 76 00-0065 EA 1-1/2" Threaded Brass Plug, Raised Head.....	39.42	11.94
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0066 EA 2" Threaded Brass Plug, Raised Head.....	42.12	11.94
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0067 EA 2-1/2" Threaded Brass Plug, Raised Head.....	47.16	12.99
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0068 EA 3" Threaded Brass Plug, Raised Head.....	55.89	14.33
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0069 EA 3-1/2" Threaded Brass Plug, Raised Head.....	67.98	16.73
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0070 EA 4" Threaded Brass Plug, Raised Head.....	85.01	19.11
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0071 EA 4-1/2" Threaded Brass Plug, Raised Head.....	93.42	20.13
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0072 EA 5" Threaded Brass Plug, Raised Head.....	103.56	21.50
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0073 EA 6" Threaded Brass Plug, Raised Head.....	173.90	23.89
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0074 EA 1-1/2" Threaded Brass Plug, Countersunk Head.....	37.31	11.94
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0075 EA 2" Threaded Brass Plug, Countersunk Head.....	40.28	11.94
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0076 EA 2-1/2" Threaded Brass Plug, Countersunk Head.....	53.03	12.99
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0077 EA 3" Threaded Brass Plug, Countersunk Head.....	56.75	14.33
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0078 EA 3-1/2" Threaded Brass Plug, Countersunk Head.....	65.44	16.73
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0079 EA 4" Threaded Brass Plug, Countersunk Head.....	81.02	19.11
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0080 EA 5" Threaded Brass Plug, Countersunk Head.....	101.37	21.50
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0081 EA 6" Threaded Brass Plug, Countersunk Head.....	138.73	23.89
For Plug Tapped For Center Screw, Add	9.50	
22 07 Plumbing Insulation (22)		
22 07 19 Plumbing Piping Insulation (22 07)		
22 07 19 00-0001 Insulation Protective Jacketing (22 07 19)		
Note: Jacketing only and must be added to insulation prices.		
22 07 19 00-0002 Aluminum Insulation Protective Jacketing With Bands (22 07 19 00-0001)		
22 07 19 00-0003 Aluminum Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0002)		
22 07 19 00-0004 SF 0.006" Aluminum Insulation Jacket With Bands.....	13.76	5.92
22 07 19 00-0005 SF 0.016" Aluminum Insulation Jacket With Bands.....	14.13	5.92
22 07 19 00-0006 16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0007 LF 1/2" ID, 0.016" Aluminum Insulation Jacketing.....	7.01	1.68
For Stucco Embossed, Add	0.00	
For Corrugated, Add	0.01	
22 07 19 00-0008 LF 3/4" ID, 0.016" Aluminum Insulation Jacketing.....	7.25	1.72
For Stucco Embossed, Add	0.00	
For Corrugated, Add	0.01	
22 07 19 00-0009 LF 1" ID, 0.016" Aluminum Insulation Jacketing.....	7.49	1.76
For Stucco Embossed, Add	0.00	
For Corrugated, Add	0.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0010 LF 1-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	7.76 0.01 0.01	1.80
22 07 19 00-0011 LF 1-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	7.94 0.01 0.02	1.83
22 07 19 00-0012 LF 1-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.14 0.01 0.02	1.86
22 07 19 00-0013 LF 2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.38 0.01 0.02	1.89
22 07 19 00-0014 LF 2-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.63 0.01 0.02	1.93
22 07 19 00-0015 LF 2-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.90 0.01 0.02	1.97
22 07 19 00-0016 LF 2-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.11 0.01 0.03	2.01
22 07 19 00-0017 LF 3" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.38 0.01 0.03	2.05
22 07 19 00-0018 LF 3-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.66 0.01 0.03	2.10
22 07 19 00-0019 LF 3-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.93 0.01 0.03	2.15
22 07 19 00-0020 LF 3-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.17 0.01 0.04	2.18
22 07 19 00-0021 LF 4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.47 0.02 0.04	2.24
22 07 19 00-0022 LF 4-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.77 0.02 0.04	2.29
22 07 19 00-0023 LF 4-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.12 0.02 0.04	2.35
22 07 19 00-0024 LF 4-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.39 0.02 0.04	2.39
22 07 19 00-0025 LF 5" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.72 0.02 0.05	2.46
22 07 19 00-0026 LF 5-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.08 0.02 0.05	2.54
22 07 19 00-0027 LF 5-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.37 0.02 0.05	2.59
22 07 19 00-0028 LF 5-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.77 0.02 0.05	2.66
22 07 19 00-0029 LF 6" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.17 0.02 0.06	2.74
22 07 19 00-0030 LF 6-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.42 0.02 0.06	2.78
22 07 19 00-0031 LF 6-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.68 0.02 0.06	2.82
22 07 19 00-0032 LF 7" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.11 0.03 0.06	2.89
22 07 19 00-0033 LF 7-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.47 0.03 0.07	2.96
22 07 19 00-0034 LF 7-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.74 0.03 0.07	3.01
22 07 19 00-0035 LF 8" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.12 0.03 0.07	3.06
22 07 19 00-0036 LF 8-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.49 0.03 0.08	3.11
22 07 19 00-0037 LF 9" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.99 0.03 0.08	3.19

22	Plumbing
22 07	Plumbing Insulation
22 07 19	Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0038 LF 9-1/2" ID, 0.016" Aluminum Insulation Jacketing	16.40	3.24
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.09	
22 07 19 00-0039 LF 10" ID, 0.016" Aluminum Insulation Jacketing.....	16.80	3.30
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0040 LF 10-1/2" ID, 0.016" Aluminum Insulation Jacketing	17.21	3.36
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0041 LF 11" ID, 0.0106 Aluminum Insulation Jacketing.....	17.76	3.45
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0042 LF 11-1/2" ID, 0.016" Aluminum Insulation Jacketing	18.20	3.52
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0043 LF 12" ID, 0.016" Aluminum Insulation Jacketing.....	18.65	3.59
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0044 LF 12-1/2" ID, 0.016" Aluminum Insulation Jacketing	19.26	3.69
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0045 LF 13" ID, 0.016" Aluminum Insulation Jacketing.....	19.58	3.73
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0046 LF 14" ID, 0.016" Aluminum Insulation Jacketing.....	20.08	3.77
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0047 LF 15" ID, 0.016" Aluminum Insulation Jacketing.....	20.74	3.85
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0048 LF 16" ID, 0.016" Aluminum Insulation Jacketing.....	21.25	3.89
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.14	
22 07 19 00-0049 LF 17" ID, 0.016" Aluminum Insulation Jacketing.....	21.93	3.97
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.15	
22 07 19 00-0050 LF 18" ID, 0.016" Aluminum Insulation Jacketing.....	22.35	4.01
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.16	
22 07 19 00-0051 LF 19" ID, 0.016" Aluminum Insulation Jacketing.....	23.17	4.10
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.17	
22 07 19 00-0052 LF 20" ID, 0.016" Aluminum Insulation Jacketing.....	23.71	4.15
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.18	
22 07 19 00-0053 LF 21" ID, 0.016" Aluminum Insulation Jacketing.....	24.42	4.25
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.19	
22 07 19 00-0054 LF 22" ID, 0.016" Aluminum Insulation Jacketing.....	24.97	4.30
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.19	
22 07 19 00-0055 LF 23" ID, 0.016" Aluminum Insulation Jacketing.....	25.73	4.40
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.20	
22 07 19 00-0056 LF 24" ID, 0.016" Aluminum Insulation Jacketing.....	26.30	4.45
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.21	
22 07 19 00-0057 20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0058 LF 1/2" ID, 0.020" Aluminum Insulation Jacketing.....	7.75	1.85
For Stucco Embossed, Add	0.00	
For Corrugated, Add	0.01	
22 07 19 00-0059 LF 3/4" ID, 0.020" Aluminum Insulation Jacketing.....	8.04	1.89
For Stucco Embossed, Add	0.00	
For Corrugated, Add	0.01	
22 07 19 00-0060 LF 1" ID, 0.020" Aluminum Insulation Jacketing.....	8.33	1.93
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.01	
22 07 19 00-0061 LF 1-1/4" ID, 0.020" Aluminum Insulation Jacketing	8.63	1.98
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0062 LF 1-1/2" ID, 0.020" Aluminum Insulation Jacketing	8.86	2.01
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0063 LF 1-3/4" ID, 0.020" Aluminum Insulation Jacketing	9.09	2.04
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0064 LF 2" ID, 0.020" Aluminum Insulation Jacketing.....	9.36	2.08
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0065 LF 2-1/4" ID, 0.020" Aluminum Insulation Jacketing	9.64	2.13
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0066 LF 2-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.95 0.01 0.03	2.17
22 07 19 00-0067 LF 2-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.20 0.01 0.03	2.21
22 07 19 00-0068 LF 3" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.52 0.01 0.04	2.25
22 07 19 00-0069 LF 3-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.83 0.02 0.04	2.31
22 07 19 00-0070 LF 3-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.16 0.02 0.04	2.36
22 07 19 00-0071 LF 3-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.44 0.02 0.05	2.40
22 07 19 00-0072 LF 4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.78 0.02 0.05	2.46
22 07 19 00-0073 LF 4-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.14 0.02 0.05	2.53
22 07 19 00-0074 LF 4-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.51 0.02 0.05	2.59
22 07 19 00-0075 LF 4-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.82 0.02 0.06	2.64
22 07 19 00-0076 LF 5" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.21 0.02 0.06	2.71
22 07 19 00-0077 LF 5-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.63 0.02 0.06	2.79
22 07 19 00-0078 LF 5-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.97 0.03 0.07	2.84
22 07 19 00-0079 LF 5-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.41 0.03 0.07	2.93
22 07 19 00-0080 LF 6" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.87 0.03 0.07	3.01
22 07 19 00-0081 LF 6-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.16 0.03 0.07	3.06
22 07 19 00-0082 LF 6-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.45 0.03 0.08	3.10
22 07 19 00-0083 LF 7" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.95 0.03 0.08	3.18
22 07 19 00-0084 LF 7-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.37 0.03 0.08	3.25
22 07 19 00-0085 LF 7-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.69 0.03 0.09	3.30
22 07 19 00-0086 LF 8" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.13 0.04 0.09	3.36
22 07 19 00-0087 LF 8-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.57 0.04 0.10	3.41
22 07 19 00-0088 LF 9" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.14 0.04 0.10	3.50
22 07 19 00-0089 LF 9-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.61 0.04 0.11	3.56
22 07 19 00-0090 LF 10" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.10 0.05 0.11	3.63
22 07 19 00-0091 LF 10-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.58 0.05 0.12	3.69
22 07 19 00-0092 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.20 0.05 0.13	3.80
22 07 19 00-0093 LF 11-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.73 0.05 0.13	3.87

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0094	LF		12" ID, 0.020" Aluminum Insulation Jacketing.....	21.25	3.94
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.14	
22 07 19 00-0095	LF		12-1/2" ID, 0.020" Aluminum Insulation Jacketing.....	21.94	4.06
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.14	
22 07 19 00-0096	LF		13" ID, 0.020" Aluminum Insulation Jacketing.....	22.32	4.10
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.15	
22 07 19 00-0097	LF		14" ID, 0.020" Aluminum Insulation Jacketing.....	22.94	4.14
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.16	
22 07 19 00-0098	LF		15" ID, 0.020" Aluminum Insulation Jacketing.....	23.72	4.24
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.17	
22 07 19 00-0099	LF		16" ID, 0.020" Aluminum Insulation Jacketing.....	24.35	4.28
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.18	
22 07 19 00-0100	LF		17" ID, 0.020" Aluminum Insulation Jacketing.....	25.15	4.37
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.19	
22 07 19 00-0101	LF		18" ID, 0.020" Aluminum Insulation Jacketing.....	25.64	4.42
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.20	
22 07 19 00-0102	LF		19" ID, 0.020" Aluminum Insulation Jacketing.....	26.63	4.52
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.21	
22 07 19 00-0103	LF		20" ID, 0.020" Aluminum Insulation Jacketing.....	27.29	4.57
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.23	
22 07 19 00-0104	LF		21" ID, 0.020" Aluminum Insulation Jacketing.....	28.13	4.67
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.24	
22 07 19 00-0105	LF		22" ID, 0.020" Aluminum Insulation Jacketing.....	28.79	4.73
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.25	
22 07 19 00-0106	LF		23" ID, 0.020" Aluminum Insulation Jacketing.....	29.69	4.84
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.26	
22 07 19 00-0107	LF		24" ID, 0.020" Aluminum Insulation Jacketing.....	30.37	4.90
			<i>For Stucco Embossed, Add</i>	0.11	
			<i>For Corrugated, Add</i>	0.27	
22 07 19 00-0108			24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0002)</small>		
22 07 19 00-0109	LF		1/2" ID, 0.024" Aluminum Insulation Jacketing.....	8.50	2.01
			<i>For Stucco Embossed, Add</i>	0.00	
			<i>For Corrugated, Add</i>	0.01	
22 07 19 00-0110	LF		3/4" ID, 0.024" Aluminum Insulation Jacketing.....	8.82	2.06
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.01	
22 07 19 00-0111	LF		1" ID, 0.024" Aluminum Insulation Jacketing.....	9.14	2.11
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0112	LF		1-1/4" ID, 0.024" Aluminum Insulation Jacketing.....	9.48	2.16
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0113	LF		1-1/2" ID, 0.024" Aluminum Insulation Jacketing.....	9.74	2.19
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0114	LF		1-3/4" ID, 0.024" Aluminum Insulation Jacketing.....	10.01	2.22
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0115	LF		2" ID, 0.024" Aluminum Insulation Jacketing.....	10.32	2.27
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0116	LF		2-1/4" ID, 0.024" Aluminum Insulation Jacketing.....	10.65	2.32
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0117	LF		2-1/2" ID, 0.024" Aluminum Insulation Jacketing.....	10.99	2.37
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0118	LF		2-3/4" ID, 0.024" Aluminum Insulation Jacketing.....	11.28	2.41
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0119	LF		3" ID, 0.024" Aluminum Insulation Jacketing.....	11.63	2.46
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0120	LF		3-1/4" ID, 0.024" Aluminum Insulation Jacketing.....	11.99	2.52
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0121	LF		3-1/2" ID, 0.024" Aluminum Insulation Jacketing.....	12.35	2.58
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0122 LF 3-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.66 0.02 0.05	2.63
22 07 19 00-0123 LF 4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.05 0.02 0.06	2.69
22 07 19 00-0124 LF 4-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.46 0.02 0.06	2.76
22 07 19 00-0125 LF 4-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.88 0.03 0.06	2.83
22 07 19 00-0126 LF 4-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.23 0.03 0.07	2.88
22 07 19 00-0127 LF 5" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.67 0.03 0.07	2.96
22 07 19 00-0128 LF 5-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.12 0.03 0.07	3.04
22 07 19 00-0129 LF 5-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.51 0.03 0.08	3.10
22 07 19 00-0130 LF 5-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.01 0.03 0.08	3.19
22 07 19 00-0131 LF 6" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.52 0.03 0.08	3.28
22 07 19 00-0132 LF 6-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.85 0.04 0.09	3.33
22 07 19 00-0133 LF 6-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.19 0.04 0.09	3.38
22 07 19 00-0134 LF 7" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.74 0.04 0.10	3.46
22 07 19 00-0135 LF 7-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.20 0.04 0.10	3.55
22 07 19 00-0136 LF 7-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.57 0.04 0.10	3.60
22 07 19 00-0137 LF 8" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.09 0.04 0.11	3.66
22 07 19 00-0138 LF 8-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.58 0.05 0.12	3.72
22 07 19 00-0139 LF 9" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.23 0.05 0.12	3.82
22 07 19 00-0140 LF 9-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.77 0.05 0.13	3.89
22 07 19 00-0141 LF 10" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.31 0.05 0.14	3.95
22 07 19 00-0142 LF 10-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.86 0.06 0.14	4.03
22 07 19 00-0143 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.57 0.06 0.15	4.14
22 07 19 00-0144 LF 11-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.17 0.06 0.16	4.23
22 07 19 00-0145 LF 12" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.75 0.07 0.16	4.31
22 07 19 00-0146 LF 12-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.54 0.07 0.17	4.44
22 07 19 00-0147 LF 13" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.98 0.07 0.18	4.48
22 07 19 00-0148 LF 14" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.70 0.08 0.19	4.53
22 07 19 00-0149 LF 15" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.60 0.08 0.20	4.62

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0150 LF 16" ID, 0.024" Aluminum Insulation Jacketing.....	27.33	4.67
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.22	
22 07 19 00-0151 LF 17" ID, 0.024" Aluminum Insulation Jacketing.....	28.25	4.77
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.23	
22 07 19 00-0152 LF 18" ID, 0.024" Aluminum Insulation Jacketing.....	28.82	4.82
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.24	
22 07 19 00-0153 LF 19" ID, 0.024" Aluminum Insulation Jacketing.....	29.96	4.93
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.26	
22 07 19 00-0154 LF 20" ID, 0.024" Aluminum Insulation Jacketing.....	30.72	4.98
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.27	
22 07 19 00-0155 LF 21" ID, 0.024" Aluminum Insulation Jacketing.....	31.70	5.10
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.28	
22 07 19 00-0156 LF 22" ID, 0.024" Aluminum Insulation Jacketing.....	32.46	5.15
For Stucco Embossed, Add	0.12	
For Corrugated, Add	0.30	
22 07 19 00-0157 LF 23" ID, 0.024" Aluminum Insulation Jacketing.....	33.50	5.28
For Stucco Embossed, Add	0.12	
For Corrugated, Add	0.31	
22 07 19 00-0158 LF 24" ID, 0.024" Aluminum Insulation Jacketing.....	34.27	5.34
For Stucco Embossed, Add	0.13	
For Corrugated, Add	0.32	
22 07 19 00-0159 32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0160 LF 1/2" ID, 0.032" Aluminum Insulation Jacketing.....	9.52	2.23
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.01	
22 07 19 00-0161 LF 3/4" ID, 0.032" Aluminum Insulation Jacketing.....	9.91	2.28
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0162 LF 1" ID, 0.032" Aluminum Insulation Jacketing.....	10.30	2.34
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0163 LF 1-1/4" ID, 0.032" Aluminum Insulation Jacketing.....	10.71	2.39
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0164 LF 1-1/2" ID, 0.032" Aluminum Insulation Jacketing.....	11.02	2.43
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0165 LF 1-3/4" ID, 0.032" Aluminum Insulation Jacketing.....	11.35	2.46
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.04	
22 07 19 00-0166 LF 2" ID, 0.032" Aluminum Insulation Jacketing.....	11.73	2.52
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0167 LF 2-1/4" ID, 0.032" Aluminum Insulation Jacketing.....	12.11	2.58
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0168 LF 2-1/2" ID, 0.032" Aluminum Insulation Jacketing.....	12.53	2.63
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0169 LF 2-3/4" ID, 0.032" Aluminum Insulation Jacketing.....	12.87	2.67
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0170 LF 3" ID, 0.032" Aluminum Insulation Jacketing.....	13.30	2.73
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0171 LF 3-1/4" ID, 0.032" Aluminum Insulation Jacketing.....	13.74	2.80
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.06	
22 07 19 00-0172 LF 3-1/2" ID, 0.032" Aluminum Insulation Jacketing.....	14.17	2.86
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0173 LF 3-3/4" ID, 0.032" Aluminum Insulation Jacketing.....	14.55	2.91
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0174 LF 4" ID, 0.032" Aluminum Insulation Jacketing.....	15.00	2.98
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0175 LF 4-1/4" ID, 0.032" Aluminum Insulation Jacketing.....	15.47	3.05
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0176 LF 4-1/2" ID, 0.032" Aluminum Insulation Jacketing.....	15.98	3.13
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.09	
22 07 19 00-0177 LF 4-3/4" ID, 0.032" Aluminum Insulation Jacketing.....	16.41	3.19
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0178 LF 5" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.92 0.04 0.10	3.28
22 07 19 00-0179 LF 5-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.45 0.04 0.10	3.37
22 07 19 00-0180 LF 5-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.91 0.04 0.10	3.44
22 07 19 00-0181 LF 5-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.51 0.04 0.11	3.53
22 07 19 00-0182 LF 6" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.10 0.05 0.11	3.64
22 07 19 00-0183 LF 6-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.50 0.05 0.12	3.69
22 07 19 00-0184 LF 6-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.89 0.05 0.12	3.75
22 07 19 00-0185 LF 7" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.57 0.05 0.13	3.84
22 07 19 00-0186 LF 7-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.12 0.05 0.14	3.93
22 07 19 00-0187 LF 7-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.54 0.06 0.14	3.99
22 07 19 00-0188 LF 8" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.19 0.06 0.15	4.06
22 07 19 00-0189 LF 8-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.80 0.06 0.16	4.12
22 07 19 00-0190 LF 9" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.57 0.07 0.17	4.24
22 07 19 00-0191 LF 9-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.24 0.07 0.18	4.31
22 07 19 00-0192 LF 10" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.89 0.07 0.18	4.39
22 07 19 00-0193 LF 10-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.57 0.08 0.19	4.47
22 07 19 00-0194 LF 11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.42 0.08 0.20	4.59
22 07 19 00-0195 LF 11-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.15 0.08 0.21	4.68
22 07 19 00-0196 LF 12" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.86 0.09 0.22	4.77
22 07 19 00-0197 LF 12-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.79 0.09 0.23	4.91
22 07 19 00-0198 LF 13" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.33 0.09 0.24	4.96
22 07 19 00-0199 LF 14" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.26 0.10 0.26	5.01
22 07 19 00-0200 LF 15" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.38 0.11 0.27	5.12
22 07 19 00-0201 LF 16" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.32 0.12 0.29	5.17
22 07 19 00-0202 LF 17" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.47 0.12 0.31	5.28
22 07 19 00-0203 LF 18" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.19 0.13 0.32	5.34
22 07 19 00-0204 LF 19" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.60 0.14 0.34	5.46
22 07 19 00-0205 LF 20" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.56 0.14 0.36	5.52

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0206 LF 21" ID, 0.032" Aluminum Insulation Jacketing.....	37.78	5.64
For Stucco Embossed, Add	0.15	
For Corrugated, Add	0.38	
22 07 19 00-0207 LF 22" ID, 0.032" Aluminum Insulation Jacketing.....	38.75	5.71
For Stucco Embossed, Add	0.16	
For Corrugated, Add	0.40	
22 07 19 00-0208 LF 23" ID, 0.032" Aluminum Insulation Jacketing.....	40.01	5.84
For Stucco Embossed, Add	0.17	
For Corrugated, Add	0.42	
22 07 19 00-0209 LF 24" ID, 0.032" Aluminum Insulation Jacketing.....	41.00	5.92
For Stucco Embossed, Add	0.17	
For Corrugated, Add	0.43	
22 07 19 00-0210 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0211 LF 1/2" ID, 0.040" Aluminum Insulation Jacketing.....	11.02	2.57
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0212 LF 3/4" ID, 0.040" Aluminum Insulation Jacketing.....	11.47	2.63
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0213 LF 1" ID, 0.040" Aluminum Insulation Jacketing.....	11.94	2.70
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0214 LF 1-1/4" ID, 0.040" Aluminum Insulation Jacketing	12.43	2.76
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.04	
22 07 19 00-0215 LF 1-1/2" ID, 0.040" Aluminum Insulation Jacketing	12.82	2.80
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0216 LF 1-3/4" ID, 0.040" Aluminum Insulation Jacketing	13.21	2.84
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0217 LF 2" ID, 0.040" Aluminum Insulation Jacketing.....	13.67	2.90
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0218 LF 2-1/4" ID, 0.040" Aluminum Insulation Jacketing	14.13	2.96
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0219 LF 2-1/2" ID, 0.040" Aluminum Insulation Jacketing	14.62	3.02
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.06	
22 07 19 00-0220 LF 2-3/4" ID, 0.040" Aluminum Insulation Jacketing	15.04	3.07
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0221 LF 3" ID, 0.040" Aluminum Insulation Jacketing.....	15.56	3.14
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0222 LF 3-1/4" ID, 0.040" Aluminum Insulation Jacketing	16.07	3.21
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0223 LF 3-1/2" ID, 0.040" Aluminum Insulation Jacketing	16.59	3.29
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.09	
22 07 19 00-0224 LF 3-3/4" ID, 0.040" Aluminum Insulation Jacketing	17.04	3.34
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0225 LF 4" ID, 0.040" Aluminum Insulation Jacketing.....	17.58	3.43
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0226 LF 4-1/4" ID, 0.040" Aluminum Insulation Jacketing	18.14	3.51
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0227 LF 4-1/2" ID, 0.040" Aluminum Insulation Jacketing	18.76	3.60
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0228 LF 4-3/4" ID, 0.040" Aluminum Insulation Jacketing	19.25	3.67
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.11	
22 07 19 00-0229 LF 5" ID, 0.040" Aluminum Insulation Jacketing.....	19.86	3.77
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0230 LF 5-1/4" ID, 0.040" Aluminum Insulation Jacketing	20.49	3.87
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0231 LF 5-1/2" ID, 0.040" Aluminum Insulation Jacketing	21.04	3.95
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0232 LF 5-3/4" ID, 0.040" Aluminum Insulation Jacketing	21.75	4.06
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.14	
22 07 19 00-0233 LF 6" ID, 0.040" Aluminum Insulation Jacketing.....	22.45	4.18
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0234 LF 6-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.92 0.06 0.15	4.25
22 07 19 00-0235 LF 6-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.40 0.06 0.15	4.32
22 07 19 00-0236 LF 7" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.21 0.07 0.16	4.42
22 07 19 00-0237 LF 7-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.87 0.07 0.17	4.53
22 07 19 00-0238 LF 7-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.38 0.07 0.18	4.60
22 07 19 00-0239 LF 8" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.14 0.07 0.19	4.68
22 07 19 00-0240 LF 8-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.88 0.08 0.20	4.75
22 07 19 00-0241 LF 9" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.81 0.08 0.21	4.87
22 07 19 00-0242 LF 9-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.62 0.09 0.22	4.96
22 07 19 00-0243 LF 10" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.42 0.09 0.23	5.05
22 07 19 00-0244 LF 10-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.22 0.10 0.24	5.14
22 07 19 00-0245 LF 11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.24 0.10 0.25	5.28
22 07 19 00-0246 LF 11-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.11 0.11 0.26	5.38
22 07 19 00-0247 LF 12" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.97 0.11 0.28	5.49
22 07 19 00-0248 LF 12-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.06 0.11 0.29	5.65
22 07 19 00-0249 LF 13" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.74 0.12 0.30	5.71
22 07 19 00-0250 LF 14" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.88 0.13 0.32	5.76
22 07 19 00-0251 LF 15" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.24 0.14 0.34	5.89
22 07 19 00-0252 LF 16" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.40 0.15 0.37	5.95
22 07 19 00-0253 LF 17" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.79 0.15 0.39	6.08
22 07 19 00-0254 LF 18" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.66 0.16 0.40	6.15
22 07 19 00-0255 LF 19" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	42.39 0.17 0.43	6.28
22 07 19 00-0256 LF 20" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.58 0.18 0.45	6.35
22 07 19 00-0257 LF 21" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.04 0.19 0.48	6.50
22 07 19 00-0258 LF 22" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.23 0.20 0.50	6.57
22 07 19 00-0259 LF 23" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	47.77 0.21 0.52	6.73
22 07 19 00-0260 LF 24" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	48.97 0.22 0.54	6.81
22 07 19 00-0261 Aluminum Insulation Protective Jacketing For Fittings (22 07 19 00-0002)		
22 07 19 00-0262 EA 1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	14.92	2.64



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 07 19 00-0263	EA	1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	15.31	2.74
22 07 19 00-0264	EA	2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	16.87	2.84
22 07 19 00-0265	EA	2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	17.05	2.89
22 07 19 00-0266	EA	2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	17.23	2.93
22 07 19 00-0267	EA	2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	17.51	3.01
22 07 19 00-0268	EA	3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	18.27	3.08
22 07 19 00-0269	EA	3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	18.59	3.16
22 07 19 00-0270	EA	3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	19.90	3.21
22 07 19 00-0271	EA	3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	20.31	3.27
22 07 19 00-0272	EA	4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	20.99	3.36
22 07 19 00-0273	EA	4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	21.46	3.42
22 07 19 00-0274	EA	4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	21.72	3.48
22 07 19 00-0275	EA	4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	21.98	3.55
22 07 19 00-0276	EA	5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	23.26	3.62
22 07 19 00-0277	EA	5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	24.89	3.69
22 07 19 00-0278	EA	5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	27.83	3.81
22 07 19 00-0279	EA	5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	28.15	3.89
22 07 19 00-0280	EA	6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	26.82	4.01
22 07 19 00-0281	EA	6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	27.17	4.10
22 07 19 00-0282	EA	6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	29.92	4.25
22 07 19 00-0283	EA	7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	33.09	4.35
22 07 19 00-0284	EA	7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	33.30	4.40
22 07 19 00-0285	EA	7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	40.91	4.45
22 07 19 00-0286	EA	8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	35.24	4.51
22 07 19 00-0287	EA	8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	50.29	4.62
22 07 19 00-0288	EA	9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	50.76	4.74
22 07 19 00-0289	EA	9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	42.60	4.80
22 07 19 00-0290	EA	10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	42.86	4.86
22 07 19 00-0291	EA	10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	43.63	4.93
22 07 19 00-0292	EA	11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	43.89	4.99
22 07 19 00-0293	EA	11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	47.71	5.13
22 07 19 00-0294	EA	12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	48.00	5.20
22 07 19 00-0295	EA	12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	69.81	5.35
22 07 19 00-0296	EA	13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	70.12	5.43
22 07 19 00-0297	EA	14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	87.28	5.59
22 07 19 00-0298	EA	15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	90.93	5.77
22 07 19 00-0299	EA	16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	97.46	5.86
22 07 19 00-0300	EA	2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	16.27	2.93
22 07 19 00-0301	EA	2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	16.55	3.01
22 07 19 00-0302	EA	3" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	17.44	3.08
22 07 19 00-0303	EA	3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	17.76	3.16
22 07 19 00-0304	EA	3-1/2" ID Aluminum 45 Degree Elbow Insulation Jacketing.....	18.70	3.21
22 07 19 00-0305	EA	3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	18.93	3.27
22 07 19 00-0306	EA	4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	19.38	3.36
22 07 19 00-0307	EA	4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	20.47	3.42
22 07 19 00-0308	EA	4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	20.73	3.48
22 07 19 00-0309	EA	4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	20.99	3.55
22 07 19 00-0310	EA	5" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.46	3.62
22 07 19 00-0311	EA	5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.75	3.69
22 07 19 00-0312	EA	5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	23.59	3.81
22 07 19 00-0313	EA	6" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	24.43	4.01
22 07 19 00-0314	EA	6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	28.52	4.25
22 07 19 00-0315	EA	7" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	28.92	4.35
22 07 19 00-0316	EA	7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	29.46	4.45
22 07 19 00-0317	EA	8" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	29.67	4.51
22 07 19 00-0318	EA	8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	32.96	4.62
22 07 19 00-0319	EA	9" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	33.43	4.74
22 07 19 00-0320	EA	9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	39.31	4.80
22 07 19 00-0321	EA	10" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	39.57	4.86
22 07 19 00-0322	EA	10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	38.53	4.93
22 07 19 00-0323	EA	11" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	38.79	4.99
22 07 19 00-0324	EA	11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	43.12	5.13
22 07 19 00-0325	EA	12" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	43.41	5.20
22 07 19 00-0326	EA	13" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	48.26	5.43
22 07 19 00-0327	EA	14" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	54.94	5.59
22 07 19 00-0328	EA	15" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	73.24	5.77
22 07 19 00-0329	EA	16" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	77.83	5.86
22 07 19 00-0330	EA	17" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	76.92	5.96
22 07 19 00-0331	EA	18" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	84.78	6.06
22 07 19 00-0332	EA	19" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	98.60	6.16
22 07 19 00-0333	EA	20" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	96.59	6.26
22 07 19 00-0334	EA	21" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	102.71	6.37
22 07 19 00-0335	EA	2-1/2" ID, Aluminum Tee Insulation Jacketing.....	47.97	4.19
22 07 19 00-0336	EA	2-3/4" ID, Aluminum Tee Insulation Jacketing.....	48.36	4.30
22 07 19 00-0337	EA	3" ID, Aluminum Tee Insulation Jacketing.....	52.81	4.40
22 07 19 00-0338	EA	3-1/4" ID, Aluminum Tee Insulation Jacketing.....	53.24	4.51
22 07 19 00-0339	EA	3-1/2" ID Aluminum Tee Insulation Jacketing.....	55.38	4.62
22 07 19 00-0340	EA	4" ID, Aluminum Tee Insulation Jacketing.....	56.25	4.74
22 07 19 00-0341	EA	4-1/4" ID, Aluminum Tee Insulation Jacketing.....	58.91	4.86
22 07 19 00-0342	EA	4-1/2" ID, Aluminum Tee Insulation Jacketing.....	59.11	4.99
22 07 19 00-0343	EA	4-3/4" ID, Aluminum Tee Insulation Jacketing.....	59.66	5.13



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0344	EA		5" ID, Aluminum Tee Insulation Jacketing	61.71	5.28
22 07 19 00-0345	EA		5-1/4" ID, Aluminum Tee Insulation Jacketing	62.33	5.43
22 07 19 00-0346	EA		5-1/2" ID, Aluminum Tee Insulation Jacketing	64.79	5.59
22 07 19 00-0347	EA		6" ID, Aluminum Tee Insulation Jacketing	65.49	5.77
22 07 19 00-0348	EA		6-1/2" ID, Aluminum Tee Insulation Jacketing	71.20	6.16
22 07 19 00-0349	EA		7" ID, Aluminum Tee Insulation Jacketing	72.05	6.37
22 07 19 00-0350	EA		7-1/2" ID, Aluminum Tee Insulation Jacketing	78.18	6.60
22 07 19 00-0351	EA		8" ID, Aluminum Tee Insulation Jacketing	79.15	6.84
22 07 19 00-0352	EA		8-1/2" ID, Aluminum Tee Insulation Jacketing	81.58	7.10
22 07 19 00-0353	EA		9" ID, Aluminum Tee Insulation Jacketing	82.72	7.38
22 07 19 00-0354	EA		9-1/2" ID, Aluminum Tee Insulation Jacketing	69.61	7.53
22 07 19 00-0355	EA		10" ID, Aluminum Tee Insulation Jacketing	70.23	7.70
22 07 19 00-0356	EA		10-1/2" ID, Aluminum Tee Insulation Jacketing	73.46	7.86
22 07 19 00-0357	EA		11" ID, Aluminum Tee Insulation Jacketing	74.14	8.03
22 07 19 00-0358	EA		11-1/2" ID, Aluminum Tee Insulation Jacketing	77.15	8.21
22 07 19 00-0359	EA		12" ID, Aluminum Tee Insulation Jacketing	77.90	8.40
22 07 19 00-0360	EA		13" ID, Aluminum Tee Insulation Jacketing	80.88	8.59
22 07 19 00-0361	EA		14" ID, Aluminum Tee Insulation Jacketing	83.98	8.79
22 07 19 00-0362	EA		15" ID, Aluminum Tee Insulation Jacketing	88.82	9.01
22 07 19 00-0363	EA		16" ID, Aluminum Tee Insulation Jacketing	91.04	9.23
22 07 19 00-0364	EA		17" ID, Aluminum Tee Insulation Jacketing	100.09	9.48
22 07 19 00-0365	EA		18" ID, Aluminum Tee Insulation Jacketing	103.51	9.72
22 07 19 00-0366	EA		19" ID, Aluminum Tee Insulation Jacketing	111.41	9.99
22 07 19 00-0367	EA		20" ID, Aluminum Tee Insulation Jacketing	114.07	10.26
22 07 19 00-0368	EA		22" ID, Aluminum Tee Insulation Jacketing	135.12	10.55
22 07 19 00-0369	EA		23" ID, Aluminum Tee Insulation Jacketing	138.94	10.86
22 07 19 00-0370	EA		24" ID, Aluminum Tee Insulation Jacketing	145.63	11.92
22 07 19 00-0371			Stainless Steel Insulation Protective Jacketing With Bands (22 07 19 00-0001)		
22 07 19 00-0372			Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0371)		
22 07 19 00-0373	SF		0.010" Stainless Steel Insulation Jacket With Bands	17.32	6.93
22 07 19 00-0374	SF		0.016" Stainless Steel Insulation Jacket With Bands	21.27	8.31
22 07 19 00-0375			10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0371)		
22 07 19 00-0376	LF		2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	8.96	1.48
22 07 19 00-0377	LF		2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	9.35	1.51
22 07 19 00-0378	LF		3" ID, 0.010" Stainless Steel Insulation Jacketing	9.74	1.54
22 07 19 00-0379	LF		3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	10.15	1.57
22 07 19 00-0380	LF		3-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	10.56	1.61
22 07 19 00-0381	LF		3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	10.97	1.64
22 07 19 00-0382	LF		4" ID, 0.010" Stainless Steel Insulation Jacketing	11.39	1.68
22 07 19 00-0383	LF		4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	11.81	1.72
22 07 19 00-0384	LF		4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	12.24	1.76
22 07 19 00-0385	LF		5" ID, 0.010" Stainless Steel Insulation Jacketing	13.14	1.85
22 07 19 00-0386	LF		5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	14.07	1.94
22 07 19 00-0387	LF		6" ID, 0.010" Stainless Steel Insulation Jacketing	15.04	2.05
22 07 19 00-0388	LF		6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	15.81	2.11
22 07 19 00-0389	LF		7" ID, 0.010" Stainless Steel Insulation Jacketing	16.61	2.17
22 07 19 00-0390	LF		7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	17.47	2.25
22 07 19 00-0391	LF		8" ID, 0.010" Stainless Steel Insulation Jacketing	18.16	2.29
22 07 19 00-0392	LF		8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	18.89	2.33
22 07 19 00-0393	LF		9" ID, 0.010" Stainless Steel Insulation Jacketing	19.62	2.38
22 07 19 00-0394	LF		9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	20.34	2.43
22 07 19 00-0395	LF		10" ID, 0.010" Stainless Steel Insulation Jacketing	21.08	2.47
22 07 19 00-0396	LF		10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	21.82	2.54
22 07 19 00-0397	LF		11" ID, 0.010" Stainless Steel Insulation Jacketing	22.57	2.59
22 07 19 00-0398	LF		12" ID, 0.010" Stainless Steel Insulation Jacketing	24.10	2.70
22 07 19 00-0399	LF		13" ID, 0.010" Stainless Steel Insulation Jacketing	25.60	2.80
22 07 19 00-0400	LF		14" ID, 0.010" Stainless Steel Insulation Jacketing	26.85	2.84
22 07 19 00-0401			16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0371)		
22 07 19 00-0402	LF		2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	12.27	1.96
22 07 19 00-0403	LF		2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	12.82	2.00
22 07 19 00-0404	LF		3" ID, 0.016" Stainless Steel Insulation Jacketing	13.38	2.05
22 07 19 00-0405	LF		3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	13.96	2.09
22 07 19 00-0406	LF		3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	14.53	2.13
22 07 19 00-0407	LF		3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	15.11	2.18
22 07 19 00-0408	LF		4" ID, 0.016" Stainless Steel Insulation Jacketing	15.70	2.23
22 07 19 00-0409	LF		4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	16.30	2.28
22 07 19 00-0410	LF		4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	16.91	2.34
22 07 19 00-0411	LF		5" ID, 0.016" Stainless Steel Insulation Jacketing	18.18	2.45
22 07 19 00-0412	LF		5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	19.47	2.59
22 07 19 00-0413	LF		6" ID, 0.016" Stainless Steel Insulation Jacketing	20.82	2.73
22 07 19 00-0414	LF		6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	21.92	2.81



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 07 19 00-0415	LF	7" ID, 0.016" Stainless Steel Insulation Jacketing.....	23.04	2.89
22 07 19 00-0416	LF	7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	24.24	3.00
22 07 19 00-0417	LF	8" ID, 0.016" Stainless Steel Insulation Jacketing.....	25.24	3.05
22 07 19 00-0418	LF	8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	26.26	3.11
22 07 19 00-0419	LF	9" ID, 0.016" Stainless Steel Insulation Jacketing.....	27.30	3.17
22 07 19 00-0420	LF	9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	28.33	3.23
22 07 19 00-0421	LF	10" ID, 0.016" Stainless Steel Insulation Jacketing.....	29.37	3.30
22 07 19 00-0422	LF	10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	30.43	3.37
22 07 19 00-0423	LF	11" ID, 0.0106 Stainless Steel Insulation Jacketing.....	31.49	3.44
22 07 19 00-0424	LF	12" ID, 0.016" Stainless Steel Insulation Jacketing.....	33.66	3.59
22 07 19 00-0425	LF	13" ID, 0.016" Stainless Steel Insulation Jacketing.....	35.78	3.72
22 07 19 00-0426	LF	14" ID, 0.016" Stainless Steel Insulation Jacketing.....	37.57	3.78

22 07 19 00-0427 Type 316 Stainless Steel Insulation Protective Jacketing For Fittings (22 07 19 00-

22 07 19 00-0428	EA	2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	25.18	2.93
22 07 19 00-0429	EA	2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	25.46	3.01
22 07 19 00-0430	EA	3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	26.37	3.08
22 07 19 00-0431	EA	3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	26.69	3.16
22 07 19 00-0432	EA	3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	27.62	3.21
22 07 19 00-0433	EA	3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	28.69	3.27
22 07 19 00-0434	EA	4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	30.59	3.36
22 07 19 00-0435	EA	4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	36.49	3.42
22 07 19 00-0436	EA	4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	36.75	3.48
22 07 19 00-0437	EA	5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	37.82	3.62
22 07 19 00-0438	EA	5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	50.01	3.81
22 07 19 00-0439	EA	6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	54.25	4.01
22 07 19 00-0440	EA	6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	69.53	4.25
22 07 19 00-0441	EA	7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	69.93	4.35
22 07 19 00-0442	EA	7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	79.17	4.45
22 07 19 00-0443	EA	8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	79.83	4.62
22 07 19 00-0444	EA	8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	81.92	4.62
22 07 19 00-0445	EA	9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	115.45	4.74
22 07 19 00-0446	EA	9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	114.02	4.80
22 07 19 00-0447	EA	10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	114.28	4.86
22 07 19 00-0448	EA	10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	133.17	4.93
22 07 19 00-0449	EA	11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	128.28	4.99
22 07 19 00-0450	EA	12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	143.77	5.20
22 07 19 00-0451	EA	13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	192.09	5.43
22 07 19 00-0452	EA	14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	193.90	5.59
22 07 19 00-0453	EA	2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	22.94	2.93
22 07 19 00-0454	EA	2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	23.22	3.01
22 07 19 00-0455	EA	3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	24.37	3.08
22 07 19 00-0456	EA	3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	24.69	3.16
22 07 19 00-0457	EA	3-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	25.06	3.21
22 07 19 00-0458	EA	3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	25.29	3.27
22 07 19 00-0459	EA	4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	29.13	3.36
22 07 19 00-0460	EA	4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	35.71	3.42
22 07 19 00-0461	EA	4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	35.97	3.48
22 07 19 00-0462	EA	4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	36.23	3.55
22 07 19 00-0463	EA	5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	36.90	3.62
22 07 19 00-0464	EA	5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	37.64	3.81
22 07 19 00-0465	EA	6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	42.65	4.01
22 07 19 00-0466	EA	6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	43.56	4.25
22 07 19 00-0467	EA	7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	62.36	4.35
22 07 19 00-0468	EA	7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	63.71	4.45
22 07 19 00-0469	EA	8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	63.92	4.51
22 07 19 00-0470	EA	8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	72.18	4.62
22 07 19 00-0471	EA	9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	72.65	4.74
22 07 19 00-0472	EA	9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	82.25	4.80
22 07 19 00-0473	EA	10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	82.51	4.86
22 07 19 00-0474	EA	10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	95.50	4.93
22 07 19 00-0475	EA	11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	95.76	4.99
22 07 19 00-0476	EA	12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	103.12	5.20
22 07 19 00-0477	EA	13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	118.58	5.43

22 07 19 00-0478 Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0001)

22 07 19 00-0479 20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0478)

22 07 19 00-0480	LF	1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	5.73	1.37
22 07 19 00-0481	LF	2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	6.02	1.42
22 07 19 00-0482	LF	2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	6.33	1.48
22 07 19 00-0483	LF	3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	6.65	1.54
22 07 19 00-0484	LF	3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	6.99	1.61
22 07 19 00-0485	LF	4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.35	1.68
22 07 19 00-0486	LF	4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.74	1.76
22 07 19 00-0487	LF	5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	8.15	1.85
22 07 19 00-0488	LF	5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	8.63	1.94
22 07 19 00-0489	LF	6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.14	2.05
22 07 19 00-0490	LF	6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.44	2.11



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0491	LF	7" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	9.75	2.17
22 07 19 00-0492	LF	7-1/2" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	10.16	2.25
22 07 19 00-0493	LF	8" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	10.39	2.29
22 07 19 00-0494	LF	8-1/2" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	10.65	2.33
22 07 19 00-0495	LF	9" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	10.91	2.38
22 07 19 00-0496	LF	9-1/2" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	11.16	2.43
22 07 19 00-0497	LF	10" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	11.43	2.47
22 07 19 00-0498	LF	10-1/2" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	11.70	2.54
22 07 19 00-0499	LF	11" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	11.99	2.59
22 07 19 00-0500	LF	11-1/2" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	12.28	2.64
22 07 19 00-0501	LF	12" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	12.58	2.70
22 07 19 00-0502	LF	12-1/2" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	12.91	2.76
22 07 19 00-0503	LF	13" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	13.15	2.80
22 07 19 00-0504	LF	13-1/2" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	13.22	2.80
22 07 19 00-0505	LF	14" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	13.47	2.84
22 07 19 00-0506	LF	15" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	13.80	2.89
22 07 19 00-0507	LF	16" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	14.12	2.93
22 07 19 00-0508	LF	17" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	14.46	2.98
22 07 19 00-0509	LF	18" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	14.80	3.03
22 07 19 00-0510	LF	19" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	15.14	3.08
22 07 19 00-0511	LF	20" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	15.50	3.13
22 07 19 00-0512	LF	21" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	15.86	3.19
22 07 19 00-0513	LF	22" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	16.24	3.24
22 07 19 00-0514	LF	23" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	16.61	3.30
22 07 19 00-0515	LF	24" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	16.99	3.36
22 07 19 00-0516	LF	25" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	17.39	3.42
22 07 19 00-0517	LF	26" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	17.79	3.48
22 07 19 00-0518	LF	27" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	18.20	3.55
22 07 19 00-0519	LF	28" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	18.63	3.62
22 07 19 00-0520	LF	29" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	19.07	3.69
22 07 19 00-0521	LF	30" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	19.52	3.77
22 07 19 00-0522 30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0478)					
22 07 19 00-0523	LF	2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	6.19	1.42
22 07 19 00-0524	LF	2-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	6.53	1.48
22 07 19 00-0525	LF	3" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	6.89	1.54
22 07 19 00-0526	LF	3-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	7.26	1.61
22 07 19 00-0527	LF	4" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	7.66	1.68
22 07 19 00-0528	LF	4-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	8.07	1.76
22 07 19 00-0529	LF	5" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	8.53	1.85
22 07 19 00-0530	LF	5-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	9.04	1.94
22 07 19 00-0531	LF	6" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	9.58	2.05
22 07 19 00-0532	LF	6-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	9.91	2.11
22 07 19 00-0533	LF	7" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	10.27	2.17
22 07 19 00-0534	LF	7-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	10.71	2.25
22 07 19 00-0535	LF	8" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	10.98	2.29
22 07 19 00-0536	LF	8-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	11.27	2.33
22 07 19 00-0537	LF	9" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	11.56	2.38
22 07 19 00-0538	LF	9-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	11.85	2.43
22 07 19 00-0539	LF	10" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	12.16	2.47
22 07 19 00-0540	LF	10-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	12.47	2.54
22 07 19 00-0541	LF	11" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	12.78	2.59
22 07 19 00-0542	LF	11-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	13.11	2.64
22 07 19 00-0543	LF	12" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	13.45	2.70
22 07 19 00-0544	LF	12-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	13.82	2.76
22 07 19 00-0545	LF	13" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	14.09	2.80
22 07 19 00-0546	LF	13-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	14.20	2.80
22 07 19 00-0547	LF	14" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	14.48	2.84
22 07 19 00-0548	LF	15" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	14.87	2.89
22 07 19 00-0549	LF	16" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	15.27	2.93
22 07 19 00-0550	LF	17" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	15.67	2.98
22 07 19 00-0551	LF	18" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	16.09	3.03
22 07 19 00-0552	LF	19" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	16.51	3.08
22 07 19 00-0553	LF	20" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	16.93	3.13
22 07 19 00-0554	LF	21" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	17.37	3.19
22 07 19 00-0555	LF	22" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	17.81	3.24
22 07 19 00-0556	LF	23" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	18.26	3.30
22 07 19 00-0557	LF	24" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	18.70	3.36
22 07 19 00-0558	LF	25" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	19.18	3.42
22 07 19 00-0559	LF	26" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	19.65	3.48
22 07 19 00-0560	LF	27" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	20.13	3.55
22 07 19 00-0561	LF	28" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	20.63	3.62
22 07 19 00-0562	LF	29" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	21.14	3.69
22 07 19 00-0563	LF	30" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	21.65	3.77
22 07 19 00-0564 Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings (22 07 19 00-0478)					
22 07 19 00-0565	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	11.53	2.74	
22 07 19 00-0566	EA	2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	12.10	2.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0567 EA 2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	12.37	2.89
22 07 19 00-0568 EA 2-1/2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	12.63	2.93
22 07 19 00-0569 EA 2-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	12.99	3.01
22 07 19 00-0570 EA 3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	13.34	3.08
22 07 19 00-0571 EA 3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	13.91	3.19
22 07 19 00-0572 EA 3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	14.39	3.27
22 07 19 00-0573 EA 4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	15.09	3.36
22 07 19 00-0574 EA 4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	16.07	3.52
22 07 19 00-0575 EA 5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	17.11	3.69
22 07 19 00-0576 EA 5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	18.63	3.89
22 07 19 00-0577 EA 6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	21.55	4.10
22 07 19 00-0578 EA 6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	22.38	4.25
22 07 19 00-0579 EA 7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	24.15	4.35
22 07 19 00-0580 EA 7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	24.91	4.45
22 07 19 00-0581 EA 8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	27.60	4.62
22 07 19 00-0582 EA 9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	31.39	4.80
22 07 19 00-0583 EA 10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	33.59	4.99
22 07 19 00-0584 EA 11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	36.42	5.20
22 07 19 00-0585 EA 12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	41.44	5.43
22 07 19 00-0586 EA 14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	44.92	5.59
22 07 19 00-0587 EA 15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	47.30	5.77
22 07 19 00-0588 EA 16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	49.88	5.86
22 07 19 00-0589 EA 17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	53.15	5.96
22 07 19 00-0590 EA 18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	62.03	6.06
22 07 19 00-0591 EA 19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	75.97	6.16
22 07 19 00-0592 EA 20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	91.03	6.26
22 07 19 00-0593 EA 1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	11.53	2.74
22 07 19 00-0594 EA 2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	12.10	2.84
22 07 19 00-0595 EA 2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	12.37	2.89
22 07 19 00-0596 EA 2-1/2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	12.63	2.93
22 07 19 00-0597 EA 2-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	12.99	3.01
22 07 19 00-0598 EA 3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	13.34	3.08
22 07 19 00-0599 EA 3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	13.91	3.19
22 07 19 00-0600 EA 3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	14.39	3.27
22 07 19 00-0601 EA 4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	15.09	3.36
22 07 19 00-0602 EA 4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	16.07	3.52
22 07 19 00-0603 EA 5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	17.11	3.69
22 07 19 00-0604 EA 5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	18.63	3.89
22 07 19 00-0605 EA 6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	21.55	4.10
22 07 19 00-0606 EA 6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	22.38	4.25
22 07 19 00-0607 EA 7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	24.15	4.35
22 07 19 00-0608 EA 7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	24.91	4.45
22 07 19 00-0609 EA 8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	27.60	4.62
22 07 19 00-0610 EA 9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	31.39	4.80
22 07 19 00-0611 EA 10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	33.59	4.99
22 07 19 00-0612 EA 11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	35.82	5.20
22 07 19 00-0613 EA 12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	38.48	5.43
22 07 19 00-0614 EA 14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	41.53	5.59
22 07 19 00-0615 EA 15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	43.63	5.77
22 07 19 00-0616 EA 16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	46.91	5.86
22 07 19 00-0617 EA 17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	50.24	5.96
22 07 19 00-0618 EA 18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	56.49	6.06
22 07 19 00-0619 EA 19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	68.65	6.16
22 07 19 00-0620 EA 20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	74.91	6.26
22 07 19 00-0621 EA 1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	16.51	3.85
22 07 19 00-0622 EA 2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	16.99	3.93
22 07 19 00-0623 EA 2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	17.62	4.06
22 07 19 00-0624 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	18.30	4.19
22 07 19 00-0625 EA 2-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	19.04	4.35
22 07 19 00-0626 EA 3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	19.82	4.51
22 07 19 00-0627 EA 3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	20.77	4.68
22 07 19 00-0628 EA 3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	21.80	4.86
22 07 19 00-0629 EA 4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	23.02	5.06
22 07 19 00-0630 EA 4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	24.56	5.28
22 07 19 00-0631 EA 5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	26.20	5.51
22 07 19 00-0632 EA 5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	28.98	5.86
22 07 19 00-0633 EA 6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	31.88	6.16
22 07 19 00-0634 EA 6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	34.02	6.26
22 07 19 00-0635 EA 7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	40.42	6.48
22 07 19 00-0636 EA 7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	43.26	6.84
22 07 19 00-0637 EA 8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	47.76	7.10
22 07 19 00-0638 EA 9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	52.37	7.38
22 07 19 00-0639 EA 10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	53.86	7.70
22 07 19 00-0640 EA 11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	57.08	7.86
22 07 19 00-0641 EA 12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	60.32	8.03
22 07 19 00-0642 EA 14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	63.62	8.21
22 07 19 00-0643 EA 15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	66.92	8.40
22 07 19 00-0644 EA 16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	70.26	8.59
22 07 19 00-0645 EA 17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	73.62	8.79
22 07 19 00-0646 EA 18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	78.35	9.01
22 07 19 00-0647 EA 19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	83.10	9.23



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0648 EA 20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	88.75	9.48
22 07 19 00-0649 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	15.23	2.64
22 07 19 00-0650 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	15.23	2.64
22 07 19 00-0651 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	16.87	2.74
22 07 19 00-0652 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	16.87	2.74
22 07 19 00-0653 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	20.72	2.84
22 07 19 00-0654 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	22.20	2.96
22 07 19 00-0655 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	23.94	3.08
22 07 19 00-0656 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	26.31	3.21
22 07 19 00-0657 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	28.43	3.36
22 07 19 00-0658 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	33.42	3.69
22 07 19 00-0659 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	43.96	4.10
22 07 19 00-0660 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	48.46	4.62
22 07 19 00-0661 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	58.08	4.93
22 07 19 00-0662 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	76.92	5.43
22 07 19 00-0663 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	78.03	5.68
22 07 19 00-0664 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	98.65	5.86
22 07 19 00-0665 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	127.63	6.06
22 07 19 00-0666 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	14.71	2.64
22 07 19 00-0667 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	14.71	2.64
22 07 19 00-0668 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	16.24	2.74
22 07 19 00-0669 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	16.24	2.74
22 07 19 00-0670 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	19.70	2.84
22 07 19 00-0671 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	21.06	2.96
22 07 19 00-0672 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	22.69	3.08
22 07 19 00-0673 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	23.80	3.21
22 07 19 00-0674 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	26.77	3.36
22 07 19 00-0675 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	31.37	3.69
22 07 19 00-0676 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	40.94	4.10
22 07 19 00-0677 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	45.15	4.62
22 07 19 00-0678 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	53.87	4.93
22 07 19 00-0679 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	70.88	5.43
22 07 19 00-0680 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	86.67	5.68
22 07 19 00-0681 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	100.92	5.86
22 07 19 00-0682 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	115.64	6.06
22 07 19 00-0683 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	21.98	3.97
22 07 19 00-0684 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	21.98	3.97
22 07 19 00-0685 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	24.12	4.10
22 07 19 00-0686 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	24.12	4.10
22 07 19 00-0687 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	29.13	4.25
22 07 19 00-0688 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	31.10	4.40
22 07 19 00-0689 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	33.59	4.62
22 07 19 00-0690 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	35.21	4.80
22 07 19 00-0691 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	39.80	5.06
22 07 19 00-0692 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	43.60	5.51
22 07 19 00-0693 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	56.51	6.16
22 07 19 00-0694 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	61.91	6.84
22 07 19 00-0695 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	79.46	7.38
22 07 19 00-0696 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	103.84	8.03
22 07 19 00-0697 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	120.99	8.59
22 07 19 00-0698 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	139.10	8.79
22 07 19 00-0699 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	150.53	9.01
22 07 19 00-0700 Insulation Foam Rubber (22 07 19)		
22 07 19 00-0701 Covering 4x6 Sheet (22 07 19 00-0700)		
22 07 19 00-0702 SF 1" Thick Foam Rubber Sheet Insulation	17.50	6.56
22 07 19 00-0703 Fiberglass Pipe Insulation (22 07 19)		
Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.		
22 07 19 00-0704 1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0705 LF 1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	6.26	2.03
For Single Layer Of Felt Finish, Add	0.08	
For Work In Restricted Working Space, Add	1.65	
22 07 19 00-0706 LF 3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	6.35	2.03
For Single Layer Of Felt Finish, Add	0.09	
For Work In Restricted Working Space, Add	1.65	
22 07 19 00-0707 LF 1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	6.74	2.12
For Single Layer Of Felt Finish, Add	0.10	
For Work In Restricted Working Space, Add	1.75	
22 07 19 00-0708 LF 1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	6.95	2.21
For Single Layer Of Felt Finish, Add	0.11	
For Work In Restricted Working Space, Add	1.78	
22 07 19 00-0709 LF 1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	7.13	2.21
For Single Layer Of Felt Finish, Add	0.11	
For Work In Restricted Working Space, Add	1.82	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0710	LF		2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	7.53	2.31
			<i>For Single Layer Of Felt Finish, Add</i>	0.12	
			<i>For Work In Restricted Working Space, Add</i>	1.91	
22 07 19 00-0711	LF		2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	7.81	2.40
			<i>For Single Layer Of Felt Finish, Add</i>	0.14	
			<i>For Work In Restricted Working Space, Add</i>	1.95	
22 07 19 00-0712	LF		3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.19	2.49
			<i>For Single Layer Of Felt Finish, Add</i>	0.16	
			<i>For Work In Restricted Working Space, Add</i>	2.01	
22 07 19 00-0713	LF		4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.14	2.68
			<i>For Single Layer Of Felt Finish, Add</i>	0.20	
			<i>For Work In Restricted Working Space, Add</i>	2.18	
22 07 19 00-0714	LF		6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.77	3.14
			<i>For Single Layer Of Felt Finish, Add</i>	0.24	
			<i>For Work In Restricted Working Space, Add</i>	2.54	
22 07 19 00-0715			1" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0703)</small>		
22 07 19 00-0716	LF		1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.51	2.77
			<i>For Single Layer Of Felt Finish, Add</i>	0.10	
			<i>For Work In Restricted Working Space, Add</i>	2.28	
22 07 19 00-0717	LF		3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.65	2.77
			<i>For Single Layer Of Felt Finish, Add</i>	0.11	
			<i>For Work In Restricted Working Space, Add</i>	2.28	
22 07 19 00-0718	LF		1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.78	2.77
			<i>For Single Layer Of Felt Finish, Add</i>	0.11	
			<i>For Work In Restricted Working Space, Add</i>	2.31	
22 07 19 00-0719	LF		1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.03	2.87
			<i>For Single Layer Of Felt Finish, Add</i>	0.13	
			<i>For Work In Restricted Working Space, Add</i>	2.34	
22 07 19 00-0720	LF		1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.23	2.87
			<i>For Single Layer Of Felt Finish, Add</i>	0.14	
			<i>For Work In Restricted Working Space, Add</i>	2.38	
22 07 19 00-0721	LF		2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.57	2.96
			<i>For Single Layer Of Felt Finish, Add</i>	0.15	
			<i>For Work In Restricted Working Space, Add</i>	2.44	
22 07 19 00-0722	LF		2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.05	3.14
			<i>For Single Layer Of Felt Finish, Add</i>	0.17	
			<i>For Work In Restricted Working Space, Add</i>	2.54	
22 07 19 00-0723	LF		3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.46	3.23
			<i>For Single Layer Of Felt Finish, Add</i>	0.19	
			<i>For Work In Restricted Working Space, Add</i>	2.60	
22 07 19 00-0724	LF		4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.64	3.42
			<i>For Single Layer Of Felt Finish, Add</i>	0.24	
			<i>For Work In Restricted Working Space, Add</i>	2.81	
22 07 19 00-0725	LF		6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.35	3.97
			<i>For Single Layer Of Felt Finish, Add</i>	0.30	
			<i>For Work In Restricted Working Space, Add</i>	3.16	
22 07 19 00-0726	LF		8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.10	4.44
			<i>For Single Layer Of Felt Finish, Add</i>	0.42	
			<i>For Work In Restricted Working Space, Add</i>	3.63	
22 07 19 00-0727	LF		10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	18.97	5.26
			<i>For Single Layer Of Felt Finish, Add</i>	0.49	
			<i>For Work In Restricted Working Space, Add</i>	4.29	
22 07 19 00-0728	LF		12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.81	6.01
			<i>For Single Layer Of Felt Finish, Add</i>	0.56	
			<i>For Work In Restricted Working Space, Add</i>	4.95	
22 07 19 00-0729	LF		14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.23	6.56
			<i>For Single Layer Of Felt Finish, Add</i>	0.65	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
22 07 19 00-0730			1-1/2" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0703)</small>		
22 07 19 00-0731	LF		1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.78	2.86
			<i>For Single Layer Of Felt Finish, Add</i>	0.20	
			<i>For Work In Restricted Working Space, Add</i>	2.37	
22 07 19 00-0732	LF		3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.87	2.86
			<i>For Single Layer Of Felt Finish, Add</i>	0.21	
			<i>For Work In Restricted Working Space, Add</i>	2.37	
22 07 19 00-0733	LF		1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.44	3.02
			<i>For Single Layer Of Felt Finish, Add</i>	0.22	
			<i>For Work In Restricted Working Space, Add</i>	2.51	
22 07 19 00-0734	LF		1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.74	3.09
			<i>For Single Layer Of Felt Finish, Add</i>	0.23	
			<i>For Work In Restricted Working Space, Add</i>	2.56	
22 07 19 00-0735	LF		1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.02	3.14
			<i>For Single Layer Of Felt Finish, Add</i>	0.24	
			<i>For Work In Restricted Working Space, Add</i>	2.61	
22 07 19 00-0736	LF		2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.71	3.31
			<i>For Single Layer Of Felt Finish, Add</i>	0.27	
			<i>For Work In Restricted Working Space, Add</i>	2.75	
22 07 19 00-0737	LF		2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.12	3.36
			<i>For Single Layer Of Felt Finish, Add</i>	0.29	
			<i>For Work In Restricted Working Space, Add</i>	2.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0738 LF 3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.52	3.48
<i>For Single Layer Of Felt Finish, Add</i>	0.30	
<i>For Work In Restricted Working Space, Add</i>	2.89	
22 07 19 00-0739 LF 4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	13.73	3.77
<i>For Single Layer Of Felt Finish, Add</i>	0.35	
<i>For Work In Restricted Working Space, Add</i>	3.13	
22 07 19 00-0740 LF 6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.94	4.40
<i>For Single Layer Of Felt Finish, Add</i>	0.40	
<i>For Work In Restricted Working Space, Add</i>	3.65	
22 07 19 00-0741 LF 8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.57	4.64
<i>For Single Layer Of Felt Finish, Add</i>	0.50	
<i>For Work In Restricted Working Space, Add</i>	3.86	
22 07 19 00-0742 LF 10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.33	5.55
<i>For Single Layer Of Felt Finish, Add</i>	0.62	
<i>For Work In Restricted Working Space, Add</i>	4.61	
22 07 19 00-0743 LF 12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.39	6.47
<i>For Single Layer Of Felt Finish, Add</i>	0.68	
<i>For Work In Restricted Working Space, Add</i>	5.37	
22 07 19 00-0744 LF 14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.13	7.08
<i>For Single Layer Of Felt Finish, Add</i>	0.79	
<i>For Work In Restricted Working Space, Add</i>	5.89	
22 07 19 00-0745 2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0746 LF 1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	11.62	3.14
<i>For Single Layer Of Felt Finish, Add</i>	0.31	
<i>For Work In Restricted Working Space, Add</i>	2.60	
22 07 19 00-0747 LF 3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	11.71	3.14
<i>For Single Layer Of Felt Finish, Add</i>	0.32	
<i>For Work In Restricted Working Space, Add</i>	2.60	
22 07 19 00-0748 LF 1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.04	3.23
<i>For Single Layer Of Felt Finish, Add</i>	0.34	
<i>For Work In Restricted Working Space, Add</i>	2.64	
22 07 19 00-0749 LF 1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.33	3.23
<i>For Single Layer Of Felt Finish, Add</i>	0.36	
<i>For Work In Restricted Working Space, Add</i>	2.67	
22 07 19 00-0750 LF 1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.64	3.33
<i>For Single Layer Of Felt Finish, Add</i>	0.38	
<i>For Work In Restricted Working Space, Add</i>	2.70	
22 07 19 00-0751 LF 2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	13.12	3.42
<i>For Single Layer Of Felt Finish, Add</i>	0.40	
<i>For Work In Restricted Working Space, Add</i>	2.81	
22 07 19 00-0752 LF 2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	13.73	3.51
<i>For Single Layer Of Felt Finish, Add</i>	0.43	
<i>For Work In Restricted Working Space, Add</i>	2.90	
22 07 19 00-0753 LF 3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	14.37	3.69
<i>For Single Layer Of Felt Finish, Add</i>	0.46	
<i>For Work In Restricted Working Space, Add</i>	3.00	
22 07 19 00-0754 LF 4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.55	3.88
<i>For Single Layer Of Felt Finish, Add</i>	0.53	
<i>For Work In Restricted Working Space, Add</i>	3.17	
22 07 19 00-0755 LF 6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.48	4.56
<i>For Single Layer Of Felt Finish, Add</i>	0.61	
<i>For Work In Restricted Working Space, Add</i>	3.80	
22 07 19 00-0756 LF 8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.54	4.81
<i>For Single Layer Of Felt Finish, Add</i>	0.75	
<i>For Work In Restricted Working Space, Add</i>	4.01	
22 07 19 00-0757 LF 10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.59	5.75
<i>For Single Layer Of Felt Finish, Add</i>	0.90	
<i>For Work In Restricted Working Space, Add</i>	4.80	
22 07 19 00-0758 LF 12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.58	6.90
<i>For Single Layer Of Felt Finish, Add</i>	0.99	
<i>For Work In Restricted Working Space, Add</i>	5.75	
22 07 19 00-0759 LF 14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.40	7.52
<i>For Single Layer Of Felt Finish, Add</i>	1.12	
<i>For Work In Restricted Working Space, Add</i>	8.02	
22 07 19 00-0760 LF 16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.87	8.82
<i>For Single Layer Of Felt Finish, Add</i>	1.27	
<i>For Work In Restricted Working Space, Add</i>	8.02	
22 07 19 00-0761 LF 18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.49	9.27
<i>For Single Layer Of Felt Finish, Add</i>	1.52	
<i>For Work In Restricted Working Space, Add</i>	8.42	
22 07 19 00-0762 LF 20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.27	10.58
<i>For Single Layer Of Felt Finish, Add</i>	1.70	
<i>For Work In Restricted Working Space, Add</i>	9.62	
22 07 19 00-0763 LF 24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	56.70	12.80
<i>For Single Layer Of Felt Finish, Add</i>	1.88	
<i>For Work In Restricted Working Space, Add</i>	11.63	
22 07 19 00-0764 2-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0765 LF 1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	14.10	3.69
<i>For Single Layer Of Felt Finish, Add</i>	0.43	
<i>For Work In Restricted Working Space, Add</i>	3.01	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0766	LF		3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	14.24	3.69
			<i>For Single Layer Of Felt Finish, Add</i>	0.44	
			<i>For Work In Restricted Working Space, Add</i>	3.01	
22 07 19 00-0767	LF		1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	14.71	3.69
			<i>For Single Layer Of Felt Finish, Add</i>	0.48	
			<i>For Work In Restricted Working Space, Add</i>	3.05	
22 07 19 00-0768	LF		1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.03	3.78
			<i>For Single Layer Of Felt Finish, Add</i>	0.50	
			<i>For Work In Restricted Working Space, Add</i>	3.08	
22 07 19 00-0769	LF		1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.38	3.78
			<i>For Single Layer Of Felt Finish, Add</i>	0.53	
			<i>For Work In Restricted Working Space, Add</i>	3.10	
22 07 19 00-0770	LF		2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.02	3.97
			<i>For Single Layer Of Felt Finish, Add</i>	0.55	
			<i>For Work In Restricted Working Space, Add</i>	3.23	
22 07 19 00-0771	LF		2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.82	4.06
			<i>For Single Layer Of Felt Finish, Add</i>	0.60	
			<i>For Work In Restricted Working Space, Add</i>	3.34	
22 07 19 00-0772	LF		3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.58	4.25
			<i>For Single Layer Of Felt Finish, Add</i>	0.64	
			<i>For Work In Restricted Working Space, Add</i>	3.46	
22 07 19 00-0773	LF		4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.20	4.44
			<i>For Single Layer Of Felt Finish, Add</i>	0.74	
			<i>For Work In Restricted Working Space, Add</i>	3.65	
22 07 19 00-0774	LF		6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.95	4.71
			<i>For Single Layer Of Felt Finish, Add</i>	0.86	
			<i>For Work In Restricted Working Space, Add</i>	4.14	
22 07 19 00-0775	LF		8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.07	5.63
			<i>For Single Layer Of Felt Finish, Add</i>	1.33	
			<i>For Work In Restricted Working Space, Add</i>	4.62	
22 07 19 00-0776	LF		10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.28	6.47
			<i>For Single Layer Of Felt Finish, Add</i>	1.63	
			<i>For Work In Restricted Working Space, Add</i>	5.33	
22 07 19 00-0777	LF		12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.59	8.04
			<i>For Single Layer Of Felt Finish, Add</i>	1.74	
			<i>For Work In Restricted Working Space, Add</i>	6.62	
22 07 19 00-0778	LF		14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.28	8.86
			<i>For Single Layer Of Felt Finish, Add</i>	2.02	
			<i>For Work In Restricted Working Space, Add</i>	7.22	
22 07 19 00-0779	LF		16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	51.93	11.27
			<i>For Single Layer Of Felt Finish, Add</i>	2.22	
			<i>For Work In Restricted Working Space, Add</i>	9.23	
22 07 19 00-0780	LF		18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	55.53	11.82
			<i>For Single Layer Of Felt Finish, Add</i>	2.44	
			<i>For Work In Restricted Working Space, Add</i>	9.70	
22 07 19 00-0781	LF		20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	63.14	13.48
			<i>For Single Layer Of Felt Finish, Add</i>	2.75	
			<i>For Work In Restricted Working Space, Add</i>	11.09	
22 07 19 00-0782	LF		24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	74.75	16.30
			<i>For Single Layer Of Felt Finish, Add</i>	3.16	
			<i>For Work In Restricted Working Space, Add</i>	13.39	
22 07 19 00-0783			3" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0703)</small>		
22 07 19 00-0784	LF		1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.57	4.08
			<i>For Single Layer Of Felt Finish, Add</i>	0.47	
			<i>For Work In Restricted Working Space, Add</i>	3.33	
22 07 19 00-0785	LF		3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.72	4.08
			<i>For Single Layer Of Felt Finish, Add</i>	0.49	
			<i>For Work In Restricted Working Space, Add</i>	3.33	
22 07 19 00-0786	LF		1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.18	4.11
			<i>For Single Layer Of Felt Finish, Add</i>	0.52	
			<i>For Work In Restricted Working Space, Add</i>	3.36	
22 07 19 00-0787	LF		1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.53	4.14
			<i>For Single Layer Of Felt Finish, Add</i>	0.55	
			<i>For Work In Restricted Working Space, Add</i>	3.38	
22 07 19 00-0788	LF		1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.94	4.19
			<i>For Single Layer Of Felt Finish, Add</i>	0.58	
			<i>For Work In Restricted Working Space, Add</i>	3.42	
22 07 19 00-0789	LF		2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.59	4.35
			<i>For Single Layer Of Felt Finish, Add</i>	0.61	
			<i>For Work In Restricted Working Space, Add</i>	3.55	
22 07 19 00-0790	LF		2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.48	4.50
			<i>For Single Layer Of Felt Finish, Add</i>	0.66	
			<i>For Work In Restricted Working Space, Add</i>	3.67	
22 07 19 00-0791	LF		3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.32	4.67
			<i>For Single Layer Of Felt Finish, Add</i>	0.70	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 07 19 00-0792	LF		4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.10	4.92
			<i>For Single Layer Of Felt Finish, Add</i>	0.81	
			<i>For Work In Restricted Working Space, Add</i>	4.01	
22 07 19 00-0793	LF		6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.13	5.58
			<i>For Single Layer Of Felt Finish, Add</i>	0.94	
			<i>For Work In Restricted Working Space, Add</i>	4.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0794 LF 8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.84	6.23
<i>For Single Layer Of Felt Finish, Add</i>	1.46	
<i>For Work In Restricted Working Space, Add</i>	5.08	
22 07 19 00-0795 LF 10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.56	7.18
<i>For Single Layer Of Felt Finish, Add</i>	1.79	
<i>For Work In Restricted Working Space, Add</i>	5.86	
22 07 19 00-0796 LF 12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.41	8.93
<i>For Single Layer Of Felt Finish, Add</i>	1.90	
<i>For Work In Restricted Working Space, Add</i>	7.28	
22 07 19 00-0797 LF 14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	47.57	9.76
<i>For Single Layer Of Felt Finish, Add</i>	2.21	
<i>For Work In Restricted Working Space, Add</i>	7.95	
22 07 19 00-0798 LF 16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	57.08	12.45
<i>For Single Layer Of Felt Finish, Add</i>	2.44	
<i>For Work In Restricted Working Space, Add</i>	10.16	
22 07 19 00-0799 LF 18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	61.04	13.09
<i>For Single Layer Of Felt Finish, Add</i>	2.68	
<i>For Work In Restricted Working Space, Add</i>	10.67	
22 07 19 00-0800 LF 20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	69.39	14.96
<i>For Single Layer Of Felt Finish, Add</i>	3.02	
<i>For Work In Restricted Working Space, Add</i>	12.20	
22 07 19 00-0801 LF 24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	82.14	18.07
<i>For Single Layer Of Felt Finish, Add</i>	3.47	
<i>For Work In Restricted Working Space, Add</i>	14.73	
22 07 19 00-0802 3-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0803 LF 1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.86	4.44
<i>For Single Layer Of Felt Finish, Add</i>	0.49	
<i>For Work In Restricted Working Space, Add</i>	3.65	
22 07 19 00-0804 LF 3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.04	4.44
<i>For Single Layer Of Felt Finish, Add</i>	0.51	
<i>For Work In Restricted Working Space, Add</i>	3.65	
22 07 19 00-0805 LF 1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.66	4.44
<i>For Single Layer Of Felt Finish, Add</i>	0.57	
<i>For Work In Restricted Working Space, Add</i>	3.67	
22 07 19 00-0806 LF 1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.03	4.53
<i>For Single Layer Of Felt Finish, Add</i>	0.60	
<i>For Work In Restricted Working Space, Add</i>	3.69	
22 07 19 00-0807 LF 1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.52	4.53
<i>For Single Layer Of Felt Finish, Add</i>	0.64	
<i>For Work In Restricted Working Space, Add</i>	3.74	
22 07 19 00-0808 LF 2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.19	4.71
<i>For Single Layer Of Felt Finish, Add</i>	0.66	
<i>For Work In Restricted Working Space, Add</i>	3.86	
22 07 19 00-0809 LF 2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.16	4.90
<i>For Single Layer Of Felt Finish, Add</i>	0.72	
<i>For Work In Restricted Working Space, Add</i>	4.00	
22 07 19 00-0810 LF 3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.03	5.08
<i>For Single Layer Of Felt Finish, Add</i>	0.76	
<i>For Work In Restricted Working Space, Add</i>	4.14	
22 07 19 00-0811 LF 4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.06	5.35
<i>For Single Layer Of Felt Finish, Add</i>	0.89	
<i>For Work In Restricted Working Space, Add</i>	4.38	
22 07 19 00-0812 LF 6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.34	6.10
<i>For Single Layer Of Felt Finish, Add</i>	1.03	
<i>For Work In Restricted Working Space, Add</i>	4.97	
22 07 19 00-0813 LF 8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.67	6.74
<i>For Single Layer Of Felt Finish, Add</i>	1.60	
<i>For Work In Restricted Working Space, Add</i>	5.54	
22 07 19 00-0814 LF 10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.92	7.76
<i>For Single Layer Of Felt Finish, Add</i>	1.96	
<i>For Work In Restricted Working Space, Add</i>	6.39	
22 07 19 00-0815 LF 12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	46.31	9.70
<i>For Single Layer Of Felt Finish, Add</i>	2.08	
<i>For Work In Restricted Working Space, Add</i>	7.94	
22 07 19 00-0816 LF 14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	51.94	10.62
<i>For Single Layer Of Felt Finish, Add</i>	2.42	
<i>For Work In Restricted Working Space, Add</i>	8.67	
22 07 19 00-0817 LF 16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	62.33	13.48
<i>For Single Layer Of Felt Finish, Add</i>	2.67	
<i>For Work In Restricted Working Space, Add</i>	11.08	
22 07 19 00-0818 LF 18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	66.64	14.22
<i>For Single Layer Of Felt Finish, Add</i>	2.92	
<i>For Work In Restricted Working Space, Add</i>	11.64	
22 07 19 00-0819 LF 20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	75.79	16.26
<i>For Single Layer Of Felt Finish, Add</i>	3.30	
<i>For Work In Restricted Working Space, Add</i>	13.31	
22 07 19 00-0820 LF 24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	89.70	19.58
<i>For Single Layer Of Felt Finish, Add</i>	3.79	
<i>For Work In Restricted Working Space, Add</i>	16.07	

22 07 19 00-0821 4" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0822	LF		1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.00	4.99
			<i>For Single Layer Of Felt Finish, Add</i>	0.58	
			<i>For Work In Restricted Working Space, Add</i>	4.05	
22 07 19 00-0823	LF		3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.19	4.99
			<i>For Single Layer Of Felt Finish, Add</i>	0.60	
			<i>For Work In Restricted Working Space, Add</i>	4.05	
22 07 19 00-0824	LF		1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.83	4.99
			<i>For Single Layer Of Felt Finish, Add</i>	0.64	
			<i>For Work In Restricted Working Space, Add</i>	4.12	
22 07 19 00-0825	LF		1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	20.34	5.08
			<i>For Single Layer Of Felt Finish, Add</i>	0.68	
			<i>For Work In Restricted Working Space, Add</i>	4.16	
22 07 19 00-0826	LF		1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.14	5.26
			<i>For Single Layer Of Felt Finish, Add</i>	0.72	
			<i>For Work In Restricted Working Space, Add</i>	4.30	
22 07 19 00-0827	LF		2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.87	5.45
			<i>For Single Layer Of Felt Finish, Add</i>	0.75	
			<i>For Work In Restricted Working Space, Add</i>	4.43	
22 07 19 00-0828	LF		2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	22.68	5.45
			<i>For Single Layer Of Felt Finish, Add</i>	0.81	
			<i>For Work In Restricted Working Space, Add</i>	4.50	
22 07 19 00-0829	LF		3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.72	5.72
			<i>For Single Layer Of Felt Finish, Add</i>	0.86	
			<i>For Work In Restricted Working Space, Add</i>	4.66	
22 07 19 00-0830	LF		4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.92	6.01
			<i>For Single Layer Of Felt Finish, Add</i>	1.00	
			<i>For Work In Restricted Working Space, Add</i>	4.92	
22 07 19 00-0831	LF		6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	29.62	6.83
			<i>For Single Layer Of Felt Finish, Add</i>	1.16	
			<i>For Work In Restricted Working Space, Add</i>	5.59	
22 07 19 00-0832	LF		8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	37.87	7.38
			<i>For Single Layer Of Felt Finish, Add</i>	1.80	
			<i>For Work In Restricted Working Space, Add</i>	6.23	
22 07 19 00-0833	LF		10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	44.93	8.77
			<i>For Single Layer Of Felt Finish, Add</i>	2.20	
			<i>For Work In Restricted Working Space, Add</i>	7.19	
22 07 19 00-0834	LF		12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	52.11	10.89
			<i>For Single Layer Of Felt Finish, Add</i>	2.34	
			<i>For Work In Restricted Working Space, Add</i>	8.94	
22 07 19 00-0835	LF		14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	58.45	11.91
			<i>For Single Layer Of Felt Finish, Add</i>	2.72	
			<i>For Work In Restricted Working Space, Add</i>	9.76	
22 07 19 00-0836	LF		16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	70.17	15.24
			<i>For Single Layer Of Felt Finish, Add</i>	3.00	
			<i>For Work In Restricted Working Space, Add</i>	12.48	
22 07 19 00-0837	LF		18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	74.93	15.97
			<i>For Single Layer Of Felt Finish, Add</i>	3.29	
			<i>For Work In Restricted Working Space, Add</i>	13.08	
22 07 19 00-0838	LF		20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	84.45	18.29
			<i>For Single Layer Of Felt Finish, Add</i>	3.63	
			<i>For Work In Restricted Working Space, Add</i>	14.97	
22 07 19 00-0839	LF		24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	100.93	22.07
			<i>For Single Layer Of Felt Finish, Add</i>	4.27	
			<i>For Work In Restricted Working Space, Add</i>	18.08	
22 07 19 00-0840	LF		26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	116.14	26.04
			<i>For Single Layer Of Felt Finish, Add</i>	4.74	
			<i>For Work In Restricted Working Space, Add</i>	21.31	
22 07 19 00-0841	LF		28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	132.39	30.66
			<i>For Single Layer Of Felt Finish, Add</i>	5.12	
			<i>For Work In Restricted Working Space, Add</i>	25.10	
22 07 19 00-0842	LF		30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	151.24	36.21
			<i>For Single Layer Of Felt Finish, Add</i>	5.47	
			<i>For Work In Restricted Working Space, Add</i>	29.73	
22 07 19 00-0843	LF		36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	185.24	46.03
			<i>For Single Layer Of Felt Finish, Add</i>	6.22	
			<i>For Work In Restricted Working Space, Add</i>	37.80	
22 07 19 00-0844	LF		42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	219.24	56.06
			<i>For Single Layer Of Felt Finish, Add</i>	6.96	
			<i>For Work In Restricted Working Space, Add</i>	45.87	
22 07 19 00-0845	LF		44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	237.42	61.61
			<i>For Single Layer Of Felt Finish, Add</i>	7.23	
			<i>For Work In Restricted Working Space, Add</i>	50.56	
22 07 19 00-0846	LF		46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	253.47	66.31
			<i>For Single Layer Of Felt Finish, Add</i>	7.52	
			<i>For Work In Restricted Working Space, Add</i>	54.54	

22 07 19 00-0847 Foamglas Pipe Insulation, Rigid, Closed Cell (22 07 19)

Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.

22 07 19 00-0848 1" Thick Foamglas Pipe Insulation (22 07 19 00-0847)

22 07 19 00-0849	LF		1/2" Diameter Pipe, 1" Thick Foamglas Insulation	15.75	4.51
			<i>For Work In Restricted Working Space, Add</i>	4.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0850 LF 3/4" Diameter Pipe, 1" Thick Foamglas Insulation	16.28	4.51
<i>For Work In Restricted Working Space, Add</i>	4.10	
22 07 19 00-0851 LF 1" Diameter Pipe, 1" Thick Foamglas Insulation	17.01	4.57
<i>For Work In Restricted Working Space, Add</i>	4.15	
22 07 19 00-0852 LF 1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation	17.39	4.64
<i>For Work In Restricted Working Space, Add</i>	4.21	
22 07 19 00-0853 LF 1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation	17.95	4.70
<i>For Work In Restricted Working Space, Add</i>	4.28	
22 07 19 00-0854 LF 2" Diameter Pipe, 1" Thick Foamglas Insulation	19.03	4.83
<i>For Work In Restricted Working Space, Add</i>	4.40	
22 07 19 00-0855 LF 2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation	20.40	5.03
<i>For Work In Restricted Working Space, Add</i>	4.58	
22 07 19 00-0856 LF 3" Diameter Pipe, 1" Thick Foamglas Insulation	21.83	5.16
<i>For Work In Restricted Working Space, Add</i>	4.69	
22 07 19 00-0857 LF 4" Diameter Pipe, 1" Thick Foamglas Insulation	24.99	5.55
<i>For Work In Restricted Working Space, Add</i>	5.05	
22 07 19 00-0858 LF 6" Diameter Pipe, 1" Thick Foamglas Insulation	31.32	6.26
<i>For Work In Restricted Working Space, Add</i>	5.70	
22 07 19 00-0859 1-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)		
22 07 19 00-0860 LF 1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	18.35	5.00
<i>For Work In Restricted Working Space, Add</i>	4.40	
22 07 19 00-0861 LF 3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	18.69	5.00
<i>For Work In Restricted Working Space, Add</i>	4.40	
22 07 19 00-0862 LF 1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	19.22	5.06
<i>For Work In Restricted Working Space, Add</i>	4.45	
22 07 19 00-0863 LF 1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	19.66	5.13
<i>For Work In Restricted Working Space, Add</i>	4.51	
22 07 19 00-0864 LF 1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	20.07	5.20
<i>For Work In Restricted Working Space, Add</i>	4.57	
22 07 19 00-0865 LF 2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	21.60	5.36
<i>For Work In Restricted Working Space, Add</i>	4.72	
22 07 19 00-0866 LF 2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	24.18	5.57
<i>For Work In Restricted Working Space, Add</i>	4.90	
22 07 19 00-0867 LF 3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	26.46	5.73
<i>For Work In Restricted Working Space, Add</i>	5.05	
22 07 19 00-0868 LF 4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	29.75	6.11
<i>For Work In Restricted Working Space, Add</i>	5.38	
22 07 19 00-0869 LF 6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	34.87	6.92
<i>For Work In Restricted Working Space, Add</i>	6.08	
22 07 19 00-0870 LF 8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	38.97	7.72
<i>For Work In Restricted Working Space, Add</i>	6.78	
22 07 19 00-0871 LF 10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	47.02	8.89
<i>For Work In Restricted Working Space, Add</i>	7.82	
22 07 19 00-0872 LF 12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	56.08	11.06
<i>For Work In Restricted Working Space, Add</i>	9.72	
22 07 19 00-0873 LF 14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	62.17	11.63
<i>For Work In Restricted Working Space, Add</i>	10.57	
22 07 19 00-0874 LF 16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	68.54	12.99
<i>For Work In Restricted Working Space, Add</i>	11.81	
22 07 19 00-0875 LF 18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	78.06	15.36
<i>For Work In Restricted Working Space, Add</i>	13.97	
22 07 19 00-0876 LF 20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	87.12	17.00
<i>For Work In Restricted Working Space, Add</i>	15.46	
22 07 19 00-0877 LF 24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation	107.38	18.84
<i>For Work In Restricted Working Space, Add</i>	17.13	
22 07 19 00-0878 2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)		
22 07 19 00-0879 LF 1/2" Diameter Pipe, 2" Thick Foamglas Insulation	20.47	5.16
<i>For Work In Restricted Working Space, Add</i>	4.69	
22 07 19 00-0880 LF 3/4" Diameter Pipe, 2" Thick Foamglas Insulation	21.00	5.16
<i>For Work In Restricted Working Space, Add</i>	4.69	
22 07 19 00-0881 LF 1" Diameter Pipe, 2" Thick Foamglas Insulation	21.70	5.22
<i>For Work In Restricted Working Space, Add</i>	4.75	
22 07 19 00-0882 LF 1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation	22.73	5.29
<i>For Work In Restricted Working Space, Add</i>	4.81	
22 07 19 00-0883 LF 1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation	23.76	5.35
<i>For Work In Restricted Working Space, Add</i>	4.87	
22 07 19 00-0884 LF 2" Diameter Pipe, 2" Thick Foamglas Insulation	26.31	5.55
<i>For Work In Restricted Working Space, Add</i>	5.05	
22 07 19 00-0885 LF 2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation	27.55	5.75
<i>For Work In Restricted Working Space, Add</i>	5.23	
22 07 19 00-0886 LF 3" Diameter Pipe, 2" Thick Foamglas Insulation	29.42	5.94
<i>For Work In Restricted Working Space, Add</i>	5.40	
22 07 19 00-0887 LF 4" Diameter Pipe, 2" Thick Foamglas Insulation	32.88	6.27
<i>For Work In Restricted Working Space, Add</i>	5.70	
22 07 19 00-0888 LF 6" Diameter Pipe, 2" Thick Foamglas Insulation	39.13	7.12
<i>For Work In Restricted Working Space, Add</i>	6.47	
22 07 19 00-0889 LF 8" Diameter Pipe, 2" Thick Foamglas Insulation	43.56	7.95
<i>For Work In Restricted Working Space, Add</i>	7.22	
22 07 19 00-0890 LF 10" Diameter Pipe, 2" Thick Foamglas Insulation	52.72	9.15
<i>For Work In Restricted Working Space, Add</i>	8.32	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0891	LF		12" Diameter Pipe, 2" Thick Foamglas Insulation	65.32	11.38
			<i>For Work In Restricted Working Space, Add</i>	10.34	
22 07 19 00-0892	LF		14" Diameter Pipe, 2" Thick Foamglas Insulation	69.94	12.42
			<i>For Work In Restricted Working Space, Add</i>	11.29	
22 07 19 00-0893	LF		16" Diameter Pipe, 2" Thick Foamglas Insulation	83.37	15.87
			<i>For Work In Restricted Working Space, Add</i>	14.43	
22 07 19 00-0894	LF		18" Diameter Pipe, 2" Thick Foamglas Insulation	90.53	16.67
			<i>For Work In Restricted Working Space, Add</i>	15.15	
22 07 19 00-0895	LF		20" Diameter Pipe, 2" Thick Foamglas Insulation	100.49	19.05
			<i>For Work In Restricted Working Space, Add</i>	17.32	
22 07 19 00-0896	LF		24" Diameter Pipe, 2" Thick Foamglas Insulation	125.55	23.02
			<i>For Work In Restricted Working Space, Add</i>	20.93	
22 07 19 00-0897			2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)		
22 07 19 00-0898	LF		1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	24.49	5.59
			<i>For Work In Restricted Working Space, Add</i>	5.09	
22 07 19 00-0899	LF		3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	25.36	5.58
			<i>For Work In Restricted Working Space, Add</i>	5.08	
22 07 19 00-0900	LF		1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	26.54	5.68
			<i>For Work In Restricted Working Space, Add</i>	5.17	
22 07 19 00-0901	LF		1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	27.55	5.72
			<i>For Work In Restricted Working Space, Add</i>	5.20	
22 07 19 00-0902	LF		1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	28.59	5.77
			<i>For Work In Restricted Working Space, Add</i>	5.24	
22 07 19 00-0903	LF		2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	30.55	6.01
			<i>For Work In Restricted Working Space, Add</i>	5.46	
22 07 19 00-0904	LF		2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	32.41	6.22
			<i>For Work In Restricted Working Space, Add</i>	5.65	
22 07 19 00-0905	LF		3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	35.02	6.43
			<i>For Work In Restricted Working Space, Add</i>	5.85	
22 07 19 00-0906	LF		4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	39.01	6.78
			<i>For Work In Restricted Working Space, Add</i>	6.17	
22 07 19 00-0907	LF		6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	46.43	7.72
			<i>For Work In Restricted Working Space, Add</i>	7.01	
22 07 19 00-0908	LF		8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	51.73	8.60
			<i>For Work In Restricted Working Space, Add</i>	7.82	
22 07 19 00-0909	LF		10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	59.08	9.91
			<i>For Work In Restricted Working Space, Add</i>	9.01	
22 07 19 00-0910	LF		12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	73.56	12.32
			<i>For Work In Restricted Working Space, Add</i>	11.20	
22 07 19 00-0911	LF		14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	77.03	13.45
			<i>For Work In Restricted Working Space, Add</i>	12.23	
22 07 19 00-0912	LF		16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	91.55	17.19
			<i>For Work In Restricted Working Space, Add</i>	15.62	
22 07 19 00-0913	LF		18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	99.20	18.05
			<i>For Work In Restricted Working Space, Add</i>	16.41	
22 07 19 00-0914	LF		20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	113.99	20.62
			<i>For Work In Restricted Working Space, Add</i>	18.75	
22 07 19 00-0915	LF		24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	142.27	24.93
			<i>For Work In Restricted Working Space, Add</i>	22.66	
22 07 19 00-0916			3" Thick Foamglas Pipe Insulation (22 07 19 00-0847)		
22 07 19 00-0917	LF		1/2" Diameter Pipe, 3" Thick Foamglas Insulation	29.15	5.95
			<i>For Work In Restricted Working Space, Add</i>	5.41	
22 07 19 00-0918	LF		3/4" Diameter Pipe, 3" Thick Foamglas Insulation	29.68	5.95
			<i>For Work In Restricted Working Space, Add</i>	5.41	
22 07 19 00-0919	LF		1" Diameter Pipe, 3" Thick Foamglas Insulation	30.50	6.05
			<i>For Work In Restricted Working Space, Add</i>	5.50	
22 07 19 00-0920	LF		1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation	31.17	6.09
			<i>For Work In Restricted Working Space, Add</i>	5.54	
22 07 19 00-0921	LF		1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation	31.86	6.15
			<i>For Work In Restricted Working Space, Add</i>	5.58	
22 07 19 00-0922	LF		2" Diameter Pipe, 3" Thick Foamglas Insulation	34.13	6.39
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 07 19 00-0923	LF		2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation	36.30	6.61
			<i>For Work In Restricted Working Space, Add</i>	6.01	
22 07 19 00-0924	LF		3" Diameter Pipe, 3" Thick Foamglas Insulation	40.88	6.84
			<i>For Work In Restricted Working Space, Add</i>	6.22	
22 07 19 00-0925	LF		4" Diameter Pipe, 3" Thick Foamglas Insulation	46.34	7.21
			<i>For Work In Restricted Working Space, Add</i>	6.56	
22 07 19 00-0926	LF		6" Diameter Pipe, 3" Thick Foamglas Insulation	50.91	8.20
			<i>For Work In Restricted Working Space, Add</i>	7.46	
22 07 19 00-0927	LF		8" Diameter Pipe, 3" Thick Foamglas Insulation	57.42	9.14
			<i>For Work In Restricted Working Space, Add</i>	8.31	
22 07 19 00-0928	LF		10" Diameter Pipe, 3" Thick Foamglas Insulation	68.33	10.54
			<i>For Work In Restricted Working Space, Add</i>	9.59	
22 07 19 00-0929	LF		12" Diameter Pipe, 3" Thick Foamglas Insulation	79.82	13.11
			<i>For Work In Restricted Working Space, Add</i>	11.92	
22 07 19 00-0930	LF		14" Diameter Pipe, 3" Thick Foamglas Insulation	85.60	14.30
			<i>For Work In Restricted Working Space, Add</i>	13.01	
22 07 19 00-0931	LF		16" Diameter Pipe, 3" Thick Foamglas Insulation	102.83	18.29
			<i>For Work In Restricted Working Space, Add</i>	16.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0932 LF 18" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	109.88 17.46	19.20
22 07 19 00-0933 LF 20" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	128.47 19.95	21.94
22 07 19 00-0934 LF 24" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	156.90 24.10	26.52
22 07 19 00-0935 3-1/2" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0847)</small>		
22 07 19 00-0936 LF 1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	35.12 6.56	7.21
22 07 19 00-0937 LF 3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	35.79 6.56	7.21
22 07 19 00-0938 LF 1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	36.61 6.60	7.26
22 07 19 00-0939 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	37.42 6.65	7.30
22 07 19 00-0940 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	38.37 6.73	7.39
22 07 19 00-0941 LF 2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	41.97 6.96	7.66
22 07 19 00-0942 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	45.61 7.20	7.93
22 07 19 00-0943 LF 3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	48.10 7.46	8.20
22 07 19 00-0944 LF 4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	51.45 7.88	8.67
22 07 19 00-0945 LF 6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	59.16 8.95	9.85
22 07 19 00-0946 LF 8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	67.15 9.97	10.97
22 07 19 00-0947 LF 10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	80.09 11.50	12.66
22 07 19 00-0948 LF 12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	95.02 14.30	15.73
22 07 19 00-0949 LF 14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	99.51 15.61	17.17
22 07 19 00-0950 LF 16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	119.96 19.95	21.94
22 07 19 00-0951 LF 18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	131.31 20.95	23.05
22 07 19 00-0952 LF 20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	149.57 23.96	26.35
22 07 19 00-0953 LF 24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	183.39 28.93	31.82
22 07 19 00-0954 4" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0847)</small>		
22 07 19 00-0955 LF 1/2" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	42.81 8.06	8.86
22 07 19 00-0956 LF 3/4" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	43.67 8.06	8.86
22 07 19 00-0957 LF 1" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	45.01 8.20	9.01
22 07 19 00-0958 LF 1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	46.18 8.29	9.12
22 07 19 00-0959 LF 1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	47.92 8.55	9.42
22 07 19 00-0960 LF 2" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	51.54 8.82	9.70
22 07 19 00-0961 LF 2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	54.72 8.96	9.86
22 07 19 00-0962 LF 3" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	57.39 9.29	10.21
22 07 19 00-0963 LF 4" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	62.83 10.35	11.39
22 07 19 00-0964 LF 6" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	72.22 11.12	12.23
22 07 19 00-0965 LF 8" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	81.29 12.06	13.26
22 07 19 00-0966 LF 10" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	93.37 14.33	15.75
22 07 19 00-0967 LF 12" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	109.63 17.79	19.57
22 07 19 00-0968 LF 14" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	119.25 19.43	21.37
22 07 19 00-0969 LF 16" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	142.50 24.84	27.33
22 07 19 00-0970 LF 18" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	157.70 26.04	28.64
22 07 19 00-0971 LF 20" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	177.10 29.80	32.77
22 07 19 00-0972 LF 24" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	223.67 36.00	39.61



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0973	Flexible Polyethylene Tubing Closed Cell Foam Insulation <small>(22 07 19)</small> Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). No additional linear feet for fittings required.		
22 07 19 00-0974	3/8" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0973)</small>		
22 07 19 00-0975	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	5.81	2.77
	<i>For Work In Restricted Working Space, Add</i>	1.66	
22 07 19 00-0976	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	5.82	2.77
	<i>For Work In Restricted Working Space, Add</i>	1.66	
22 07 19 00-0977	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.04	2.87
	<i>For Work In Restricted Working Space, Add</i>	1.72	
22 07 19 00-0978	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.28	2.96
	<i>For Work In Restricted Working Space, Add</i>	1.78	
22 07 19 00-0979	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.49	3.01
	<i>For Work In Restricted Working Space, Add</i>	1.81	
22 07 19 00-0980	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.72	3.06
	<i>For Work In Restricted Working Space, Add</i>	1.84	
22 07 19 00-0981	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.81	3.06
	<i>For Work In Restricted Working Space, Add</i>	1.85	
22 07 19 00-0982	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.05	3.06
	<i>For Work In Restricted Working Space, Add</i>	1.85	
22 07 19 00-0983	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.56	3.15
	<i>For Work In Restricted Working Space, Add</i>	1.91	
22 07 19 00-0984	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.78	3.21
	<i>For Work In Restricted Working Space, Add</i>	1.94	
22 07 19 00-0985	1/2" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0973)</small>		
22 07 19 00-0986	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.43	3.01
	<i>For Work In Restricted Working Space, Add</i>	1.81	
22 07 19 00-0987	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.49	3.01
	<i>For Work In Restricted Working Space, Add</i>	1.82	
22 07 19 00-0988	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.59	3.06
	<i>For Work In Restricted Working Space, Add</i>	1.84	
22 07 19 00-0989	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.70	3.08
	<i>For Work In Restricted Working Space, Add</i>	1.85	
22 07 19 00-0990	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.00	3.15
	<i>For Work In Restricted Working Space, Add</i>	1.89	
22 07 19 00-0991	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.24	3.21
	<i>For Work In Restricted Working Space, Add</i>	1.92	
22 07 19 00-0992	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.51	3.25
	<i>For Work In Restricted Working Space, Add</i>	1.95	
22 07 19 00-0993	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.84	3.30
	<i>For Work In Restricted Working Space, Add</i>	1.98	
22 07 19 00-0994	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.42	3.40
	<i>For Work In Restricted Working Space, Add</i>	2.04	
22 07 19 00-0995	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.99	3.44
	<i>For Work In Restricted Working Space, Add</i>	2.07	
22 07 19 00-0996	LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.53	3.49
	<i>For Work In Restricted Working Space, Add</i>	2.09	
22 07 19 00-0997	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.86	3.54
	<i>For Work In Restricted Working Space, Add</i>	2.12	
22 07 19 00-0998	3/4" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0973)</small>		
22 07 19 00-0999	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.10	3.25
	<i>For Work In Restricted Working Space, Add</i>	1.95	
22 07 19 00-1000	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.20	3.30
	<i>For Work In Restricted Working Space, Add</i>	1.98	
22 07 19 00-1001	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.60	3.40
	<i>For Work In Restricted Working Space, Add</i>	2.04	
22 07 19 00-1002	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.79	3.44
	<i>For Work In Restricted Working Space, Add</i>	2.07	
22 07 19 00-1003	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.28	3.54
	<i>For Work In Restricted Working Space, Add</i>	2.12	
22 07 19 00-1004	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.76	3.59
	<i>For Work In Restricted Working Space, Add</i>	2.15	
22 07 19 00-1005	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.98	3.61
	<i>For Work In Restricted Working Space, Add</i>	2.17	
22 07 19 00-1006	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.82	3.64
	<i>For Work In Restricted Working Space, Add</i>	2.18	
22 07 19 00-1007	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.03	3.73
	<i>For Work In Restricted Working Space, Add</i>	2.24	
22 07 19 00-1008	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.12	3.78
	<i>For Work In Restricted Working Space, Add</i>	2.27	
22 07 19 00-1009	LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.98	3.83
	<i>For Work In Restricted Working Space, Add</i>	2.30	
22 07 19 00-1010	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.34	3.88
	<i>For Work In Restricted Working Space, Add</i>	2.33	
22 07 19 00-1011	1" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0973)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1012 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.03	3.59
<i>For Work In Restricted Working Space, Add</i>	2.15	
22 07 19 00-1013 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.21	3.64
<i>For Work In Restricted Working Space, Add</i>	2.18	
22 07 19 00-1014 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.78	3.73
<i>For Work In Restricted Working Space, Add</i>	2.24	
22 07 19 00-1015 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.95	3.78
<i>For Work In Restricted Working Space, Add</i>	2.27	
22 07 19 00-1016 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.77	3.88
<i>For Work In Restricted Working Space, Add</i>	2.33	
22 07 19 00-1017 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.20	3.98
<i>For Work In Restricted Working Space, Add</i>	2.39	
22 07 19 00-1018 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.39	4.02
<i>For Work In Restricted Working Space, Add</i>	2.42	
22 07 19 00-1019 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.15	4.07
<i>For Work In Restricted Working Space, Add</i>	2.45	
22 07 19 00-1020 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.72	4.17
<i>For Work In Restricted Working Space, Add</i>	2.50	
22 07 19 00-1021 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.21	4.23
<i>For Work In Restricted Working Space, Add</i>	2.53	
22 07 19 00-1022 Flexible Elastomeric Tubing Closed Cell Foam Insulation (22 07 19)		
Note: No additional LF for fittings required.		
22 07 19 00-1023 3/8" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-1022)		
22 07 19 00-1024 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	6.44	2.77
<i>For Work In Restricted Working Space, Add</i>	1.66	
22 07 19 00-1025 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	6.59	2.77
<i>For Work In Restricted Working Space, Add</i>	1.66	
22 07 19 00-1026 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	6.87	2.87
<i>For Work In Restricted Working Space, Add</i>	1.72	
22 07 19 00-1027 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.05	2.91
<i>For Work In Restricted Working Space, Add</i>	1.74	
22 07 19 00-1028 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.24	2.96
<i>For Work In Restricted Working Space, Add</i>	1.78	
22 07 19 00-1029 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	7.52	3.01
<i>For Work In Restricted Working Space, Add</i>	1.81	
22 07 19 00-1030 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	7.75	3.06
<i>For Work In Restricted Working Space, Add</i>	1.84	
22 07 19 00-1031 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	8.02	3.06
<i>For Work In Restricted Working Space, Add</i>	1.85	
22 07 19 00-1032 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.25	3.06
<i>For Work In Restricted Working Space, Add</i>	1.85	
22 07 19 00-1033 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	8.49	3.10
<i>For Work In Restricted Working Space, Add</i>	1.86	
22 07 19 00-1034 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	8.80	3.15
<i>For Work In Restricted Working Space, Add</i>	1.89	
22 07 19 00-1035 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.10	3.15
<i>For Work In Restricted Working Space, Add</i>	1.91	
22 07 19 00-1036 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.30	3.21
<i>For Work In Restricted Working Space, Add</i>	1.92	
22 07 19 00-1037 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.60	3.21
<i>For Work In Restricted Working Space, Add</i>	1.94	
22 07 19 00-1038 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.27	3.25
<i>For Work In Restricted Working Space, Add</i>	1.95	
22 07 19 00-1039 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.06	3.30
<i>For Work In Restricted Working Space, Add</i>	1.98	
22 07 19 00-1040 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.94	3.32
<i>For Work In Restricted Working Space, Add</i>	1.99	
22 07 19 00-1041 1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-1022)		
22 07 19 00-1042 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.40	3.01
<i>For Work In Restricted Working Space, Add</i>	1.81	
22 07 19 00-1043 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.52	3.01
<i>For Work In Restricted Working Space, Add</i>	1.82	
22 07 19 00-1044 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.66	3.06
<i>For Work In Restricted Working Space, Add</i>	1.84	
22 07 19 00-1045 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.88	3.06
<i>For Work In Restricted Working Space, Add</i>	1.85	
22 07 19 00-1046 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.04	3.06
<i>For Work In Restricted Working Space, Add</i>	1.85	
22 07 19 00-1047 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	8.42	3.15
<i>For Work In Restricted Working Space, Add</i>	1.89	
22 07 19 00-1048 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	8.80	3.21
<i>For Work In Restricted Working Space, Add</i>	1.92	
22 07 19 00-1049 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.12	3.25
<i>For Work In Restricted Working Space, Add</i>	1.95	
22 07 19 00-1050 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.48	3.28
<i>For Work In Restricted Working Space, Add</i>	1.97	
22 07 19 00-1051 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.77	3.30
<i>For Work In Restricted Working Space, Add</i>	1.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1052	LF		2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.90 2.01	3.35
22 07 19 00-1053	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.57 2.04	3.40
22 07 19 00-1054	LF		2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.07 2.05	3.43
22 07 19 00-1055	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.49 2.07	3.44
22 07 19 00-1056	LF		3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.80 2.08	3.47
22 07 19 00-1057	LF		3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.06 2.09	3.49
22 07 19 00-1058	LF		4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.36 2.12	3.54
22 07 19 00-1059	LF		4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.66 2.14	3.56
22 07 19 00-1060	LF		5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.96 2.15	3.59
22 07 19 00-1061	LF		6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.43 2.21	3.68
22 07 19 00-1062	LF		8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.07 2.27	3.78
22 07 19 00-1063			3/4" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1064	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.72 1.95	3.25
22 07 19 00-1065	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.01 1.98	3.30
22 07 19 00-1066	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.42 2.04	3.40
22 07 19 00-1067	LF		5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.68 2.05	3.43
22 07 19 00-1068	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.80 2.07	3.44
22 07 19 00-1069	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.44 2.12	3.54
22 07 19 00-1070	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.97 2.15	3.59
22 07 19 00-1071	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.51 2.18	3.64
22 07 19 00-1072	LF		1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.66 2.18	3.64
22 07 19 00-1073	LF		2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.87 2.20	3.66
22 07 19 00-1074	LF		2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.54 2.21	3.68
22 07 19 00-1075	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.87 2.24	3.73
22 07 19 00-1076	LF		2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.63 2.25	3.76
22 07 19 00-1077	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.16 2.27	3.78
22 07 19 00-1078	LF		3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.96 2.29	3.81
22 07 19 00-1079	LF		3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.27 2.30	3.83
22 07 19 00-1080	LF		4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.47 2.33	3.88
22 07 19 00-1081	LF		4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.46 2.34	3.90
22 07 19 00-1082	LF		5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.10 2.36	3.92
22 07 19 00-1083	LF		6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.83 2.39	3.98
22 07 19 00-1084	LF		8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.89 2.45	4.07
22 07 19 00-1085			1" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1086	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.42 2.15	3.58
22 07 19 00-1087	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.79 2.18	3.64
22 07 19 00-1088	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.23 2.24	3.73
22 07 19 00-1089	LF		5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.65 2.25	3.76
22 07 19 00-1090	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.02 2.27	3.78
22 07 19 00-1091	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.60 2.33	3.88
22 07 19 00-1092	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.56 2.39	3.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1093 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.06 2.42	3.98
22 07 19 00-1094 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.75 2.43	4.02
22 07 19 00-1095 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.99 2.45	4.07
22 07 19 00-1096 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.49 2.48	4.12
22 07 19 00-1097 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.65 2.50	4.17
22 07 19 00-1098 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.15 2.52	4.20
22 07 19 00-1099 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.57 2.53	4.23
22 07 19 00-1100 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.35 2.55	4.25
22 07 19 00-1101 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.72 2.56	4.27
22 07 19 00-1102 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.56 2.62	4.37
22 07 19 00-1103 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	25.47 2.65	4.42
22 07 19 00-1104 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.34 2.68	4.46
22 07 19 00-1105 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	31.34 2.73	4.57
22 07 19 00-1106 1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1107 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.28 2.41	4.01
22 07 19 00-1108 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.73 2.47	4.10
22 07 19 00-1109 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.16 2.48	4.12
22 07 19 00-1110 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.59 2.49	4.16
22 07 19 00-1111 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.13 2.55	4.26
22 07 19 00-1112 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.02 2.64	4.42
22 07 19 00-1113 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.42 2.67	4.35
22 07 19 00-1114 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.62 2.70	4.46
22 07 19 00-1115 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.34 2.73	4.57
22 07 19 00-1116 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	25.70 2.76	4.62
22 07 19 00-1117 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	27.94 2.79	4.68
22 07 19 00-1118 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.99 2.81	4.69
22 07 19 00-1119 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	30.02 2.83	4.70
22 07 19 00-1120 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	31.25 2.84	4.73
22 07 19 00-1121 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	32.02 2.85	4.75
22 07 19 00-1122 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	36.14 2.95	4.92
22 07 19 00-1123 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	38.35 2.99	5.00
22 07 19 00-1124 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	43.78 3.04	5.07
22 07 19 00-1125 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	49.13 3.13	5.23
22 07 19 00-1126 2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1127 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	26.27 2.66	4.44
22 07 19 00-1128 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	27.40 2.72	4.50
22 07 19 00-1129 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	29.43 2.72	4.54
22 07 19 00-1130 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	30.12 2.73	4.57
22 07 19 00-1131 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	31.78 2.79	4.67
22 07 19 00-1132 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	33.72 2.93	4.89
22 07 19 00-1133 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	34.95 2.95	4.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1134 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	37.11 3.00	4.93
22 07 19 00-1135 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	39.18 3.06	5.10
22 07 19 00-1136 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	40.59 3.09	5.16
22 07 19 00-1137 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	43.51 3.12	5.23
22 07 19 00-1138 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	43.84 3.14	5.24
22 07 19 00-1139 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	46.59 3.15	5.24
22 07 19 00-1140 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	48.49 3.16	5.26
22 07 19 00-1141 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	50.53 3.17	5.29
22 07 19 00-1142 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	57.16 3.32	5.54
22 07 19 00-1143 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	61.01 3.39	5.65
22 07 19 00-1144 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	62.09 3.46	5.76
22 07 19 00-1145 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	70.12 3.59	6.00
22 07 19 00-1146 Flexible Polyolefin Tubing Closed Cell Foam Insulation (22 07 19) Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. No additional LF for fittings required.		
22 07 19 00-1147 3/8" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)		
22 07 19 00-1148 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.02 1.66	2.77
22 07 19 00-1149 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.10 1.66	2.77
22 07 19 00-1150 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.32 1.72	2.87
22 07 19 00-1151 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.61 1.78	2.96
22 07 19 00-1152 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.80 1.81	3.01
22 07 19 00-1153 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.13 1.84	3.06
22 07 19 00-1154 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.38 1.85	3.06
22 07 19 00-1155 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.56 1.85	3.15
22 07 19 00-1156 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.37 1.91	3.15
22 07 19 00-1157 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.09 1.94	3.21
22 07 19 00-1158 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.96 1.98	3.30
22 07 19 00-1159 1/2" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)		
22 07 19 00-1160 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.78 1.81	3.01
22 07 19 00-1161 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.84 1.82	3.01
22 07 19 00-1162 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.99 1.84	3.06
22 07 19 00-1163 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.19 1.85	3.06
22 07 19 00-1164 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.43 1.89	3.15
22 07 19 00-1165 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.79 1.92	3.21
22 07 19 00-1166 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.18 1.95	3.25
22 07 19 00-1167 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.57 1.98	3.30
22 07 19 00-1168 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.43 2.04	3.40
22 07 19 00-1169 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.20 2.07	3.44
22 07 19 00-1170 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.67 2.12	3.54
22 07 19 00-1171 3/4" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)		
22 07 19 00-1172 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.64 1.95	3.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1173 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	7.92	3.30
<i>For Work In Restricted Working Space, Add</i>	1.98	
22 07 19 00-1174 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	8.24	3.40
<i>For Work In Restricted Working Space, Add</i>	2.04	
22 07 19 00-1175 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	8.77	3.44
<i>For Work In Restricted Working Space, Add</i>	2.07	
22 07 19 00-1176 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.25	3.54
<i>For Work In Restricted Working Space, Add</i>	2.12	
22 07 19 00-1177 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.10	3.59
<i>For Work In Restricted Working Space, Add</i>	2.15	
22 07 19 00-1178 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.67	3.59
<i>For Work In Restricted Working Space, Add</i>	2.17	
22 07 19 00-1179 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.30	3.64
<i>For Work In Restricted Working Space, Add</i>	2.18	
22 07 19 00-1180 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.53	3.73
<i>For Work In Restricted Working Space, Add</i>	2.24	
22 07 19 00-1181 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.65	3.78
<i>For Work In Restricted Working Space, Add</i>	2.27	
22 07 19 00-1182 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	15.79	3.88
<i>For Work In Restricted Working Space, Add</i>	2.33	

22 07 19 00-1183 1" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)

22 07 19 00-1184 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.16	3.59
<i>For Work In Restricted Working Space, Add</i>	2.15	
22 07 19 00-1185 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.31	3.64
<i>For Work In Restricted Working Space, Add</i>	2.18	
22 07 19 00-1186 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.64	3.73
<i>For Work In Restricted Working Space, Add</i>	2.24	
22 07 19 00-1187 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.40	3.78
<i>For Work In Restricted Working Space, Add</i>	2.27	
22 07 19 00-1188 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.03	3.88
<i>For Work In Restricted Working Space, Add</i>	2.33	
22 07 19 00-1189 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.66	3.98
<i>For Work In Restricted Working Space, Add</i>	2.39	
22 07 19 00-1190 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.30	3.98
<i>For Work In Restricted Working Space, Add</i>	2.42	
22 07 19 00-1191 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.72	4.07
<i>For Work In Restricted Working Space, Add</i>	2.45	
22 07 19 00-1192 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	15.61	4.17
<i>For Work In Restricted Working Space, Add</i>	2.50	
22 07 19 00-1193 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	16.97	4.23
<i>For Work In Restricted Working Space, Add</i>	2.53	

22 10 Plumbing Piping (22)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 Facility Water Distribution (22 10)

22 11 16 Domestic Water Piping (22 11)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 16 00-0001 Galvanized Steel Pipe Assemblies (22 11 16)

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.

22 11 16 00-0002 LF 1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	14.75	3.52
<i>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>		
<i>For ASTM 120, Deduct</i>	-0.46	
<i>For Work In Restricted Working Space, Add</i>	3.50	
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	3.72	
22 11 16 00-0003 LF 3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	16.10	3.78
<i>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>		
<i>For ASTM 120, Deduct</i>	-0.56	
<i>For Work In Restricted Working Space, Add</i>	3.71	
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	4.16	
22 11 16 00-0004 LF 1" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	18.01	4.14
<i>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>		
<i>For ASTM 120, Deduct</i>	-0.72	
<i>For Work In Restricted Working Space, Add</i>	3.96	
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	4.80	
22 11 16 00-0005 LF 1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	20.96	4.31
<i>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>		
<i>For ASTM 120, Deduct</i>	-1.04	
<i>For Work In Restricted Working Space, Add</i>	4.21	
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	5.93	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0006 LF 1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	22.45	5.10
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For ASTM 120, Deduct	-1.17	
For Work In Restricted Working Space, Add	4.39	
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	6.45	
22 11 16 00-0007 LF 2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	26.94	6.16
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For ASTM 120, Deduct	-1.55	
For Work In Restricted Working Space, Add	4.99	
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	7.97	
22 11 16 00-0008 LF 2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	39.48	7.30
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For ASTM 120, Deduct	-3.00	
For Work In Restricted Working Space, Add	5.85	
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	12.89	
22 11 16 00-0009 LF 3" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	48.36	9.76
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For ASTM 120, Deduct	-3.71	
For Work In Restricted Working Space, Add	7.09	
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	15.86	
22 11 16 00-0010 LF 4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	75.74	11.04
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For ASTM 120, Deduct	-7.49	
For Work In Restricted Working Space, Add	7.73	
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	27.64	
22 11 16 00-0011 LF 5" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	143.27	14.11
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For ASTM 120, Deduct	-16.82	
For Work In Restricted Working Space, Add	9.34	
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	56.69	
22 11 16 00-0012 LF 6" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	166.12	16.68
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For ASTM 120, Deduct	-19.61	
For Work In Restricted Working Space, Add	10.61	
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	65.91	
22 11 16 00-0013 Galvanized Steel Pipe And Threaded Fittings <small>(22 11 16)</small>		
Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
22 11 16 00-0014 Threaded And Coupled, Galvanized Steel Piping <small>(22 11 16 00-0013)</small>		
Note: ASTM A-53. Includes coupling.		
22 11 16 00-0015 LF 1/2" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe.....	6.66	3.52
For ASTM 120, Deduct	-0.20	
For Work In Restricted Working Space, Add	1.60	
For Schedule 80 Pipe, Add	1.17	
22 11 16 00-0016 LF 3/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe.....	7.43	3.78
For ASTM 120, Deduct	-0.26	
For Work In Restricted Working Space, Add	1.70	
For Schedule 80 Pipe, Add	1.41	
22 11 16 00-0017 LF 1" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe.....	8.76	4.14
For ASTM 120, Deduct	-0.39	
For Work In Restricted Working Space, Add	1.85	
For Schedule 80 Pipe, Add	1.87	
22 11 16 00-0018 LF 1-1/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe	10.06	4.31
For ASTM 120, Deduct	-0.53	
For Work In Restricted Working Space, Add	1.96	
For Schedule 80 Pipe, Add	2.35	
22 11 16 00-0019 LF 1-1/2" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe	11.88	5.10
For ASTM 120, Deduct	-0.63	
For Work In Restricted Working Space, Add	2.30	
For Schedule 80 Pipe, Add	2.80	
22 11 16 00-0020 LF 2" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe.....	14.94	6.16
For ASTM 120, Deduct	-0.85	
For Work In Restricted Working Space, Add	2.78	
For Schedule 80 Pipe, Add	3.65	
22 11 16 00-0021 LF 2-1/2" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe	20.02	7.30
For ASTM 120, Deduct	-1.35	
For Work In Restricted Working Space, Add	3.30	
For Schedule 80 Pipe, Add	5.43	
22 11 16 00-0022 LF 3" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe.....	26.46	9.76
For ASTM 120, Deduct	-1.77	
For Work In Restricted Working Space, Add	4.40	
For Schedule 80 Pipe, Add	7.13	
22 11 16 00-0023 LF 4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe.....	33.40	11.04
For ASTM 120, Deduct	-2.52	
For Work In Restricted Working Space, Add	4.98	
For Schedule 80 Pipe, Add	9.72	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0024	LF		5" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	43.65 -3.38 6.34 12.93	14.11
22 11 16 00-0025	LF		6" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	54.21 -4.38 7.49 16.53	16.68
22 11 16 00-0026 Galvanized Malleable Iron 90 Degree Elbows <small>(22 11 16 00-0013)</small>					
22 11 16 00-0027	EA		1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	27.95 -0.68 7.04 16.71	15.66
22 11 16 00-0028	EA		3/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	31.78 -0.83 7.88 20.38	17.51
22 11 16 00-0029	EA		1", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	39.57 -1.54 8.80 36.61	19.53
22 11 16 00-0030	EA		1-1/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	49.38 -2.43 9.96 57.04	22.17
22 11 16 00-0031	EA		1-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	58.57 -3.17 11.23 74.12	24.98
22 11 16 00-0032	EA		2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	82.16 -5.19 14.26 120.56	31.76
22 11 16 00-0033	EA		2-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	160.95 -13.59 21.11 312.23	46.97
22 11 16 00-0034	EA		3", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	241.94 -22.40 27.78 513.35	61.75
22 11 16 00-0035	EA		4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	360.22 -39.51 29.04 901.44	64.55
22 11 16 00-0036	EA		5", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	1,238.60 -170.64 30.30 3,873.87	67.37
22 11 16 00-0037	EA		6", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	1,154.33 -157.31 31.68 3,572.02	70.44
22 11 16 00-0038 Galvanized Malleable Iron Reducing 90 Degree Elbows <small>(22 11 16 00-0013)</small>					
22 11 16 00-0039	EA		3/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	34.47 -1.44 7.46	16.53
22 11 16 00-0040	EA		1" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	40.13 -1.85 8.34	18.55
22 11 16 00-0041	EA		1" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	39.49 -1.97 7.92	17.59
22 11 16 00-0042	EA		1-1/4" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	51.96 -3.11 9.38	20.85
22 11 16 00-0043	EA		1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	54.59 -3.73 8.92	19.79
22 11 16 00-0044	EA		1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	54.67 -3.95 8.50	18.91
22 11 16 00-0045	EA		1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	68.40 -4.96 10.59	23.57
22 11 16 00-0046	EA		1-1/2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	66.46 -4.96 10.01	22.26
22 11 16 00-0047	EA		1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	64.93 -4.96 9.55	21.20

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0048	EA		2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	81.14	28.32
			<i>For ASTM 120, Deduct</i>	-5.80	
			<i>For Work In Restricted Working Space, Add</i>	12.74	
22 11 16 00-0049	EA		2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	84.69	26.92
			<i>For ASTM 120, Deduct</i>	-6.65	
			<i>For Work In Restricted Working Space, Add</i>	12.11	
22 11 16 00-0050	EA		2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	84.41	25.60
			<i>For ASTM 120, Deduct</i>	-6.90	
			<i>For Work In Restricted Working Space, Add</i>	11.53	
22 11 16 00-0051	EA		2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	71.78	24.63
			<i>For ASTM 120, Deduct</i>	-5.23	
			<i>For Work In Restricted Working Space, Add</i>	11.07	
22 11 16 00-0052	EA		2-1/2" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	189.99	39.32
			<i>For ASTM 120, Deduct</i>	-19.65	
			<i>For Work In Restricted Working Space, Add</i>	17.69	
22 11 16 00-0053	EA		2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	199.88	35.97
			<i>For ASTM 120, Deduct</i>	-21.90	
			<i>For Work In Restricted Working Space, Add</i>	16.17	
22 11 16 00-0054	EA		3" x 2-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	319.62	54.35
			<i>For ASTM 120, Deduct</i>	-35.72	
			<i>For Work In Restricted Working Space, Add</i>	24.44	
22 11 16 00-0055	EA		3" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	276.91	46.71
			<i>For ASTM 120, Deduct</i>	-31.03	
			<i>For Work In Restricted Working Space, Add</i>	21.02	
22 11 16 00-0056	EA		4" x 3", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	630.97	61.40
			<i>For ASTM 120, Deduct</i>	-80.84	
			<i>For Work In Restricted Working Space, Add</i>	27.62	
22 11 16 00-0057			Galvanized Malleable Iron 45 Degree Elbow <small>(22 11 16 00-0013)</small>		
22 11 16 00-0058	EA		1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	30.57	15.66
			<i>For ASTM 120, Deduct</i>	-1.07	
			<i>For Work In Restricted Working Space, Add</i>	7.04	
			<i>For 300 LB Rating, Add</i>	25.62	
22 11 16 00-0059	EA		3/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	36.50	17.51
			<i>For ASTM 120, Deduct</i>	-1.54	
			<i>For Work In Restricted Working Space, Add</i>	7.88	
			<i>For 300 LB Rating, Add</i>	36.43	
22 11 16 00-0060	EA		1", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	40.88	19.53
			<i>For ASTM 120, Deduct</i>	-1.73	
			<i>For Work In Restricted Working Space, Add</i>	8.80	
			<i>For 300 LB Rating, Add</i>	41.06	
22 11 16 00-0061	EA		1-1/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	54.80	22.17
			<i>For ASTM 120, Deduct</i>	-3.24	
			<i>For Work In Restricted Working Space, Add</i>	9.96	
			<i>For 300 LB Rating, Add</i>	75.47	
22 11 16 00-0062	EA		1-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	62.82	24.98
			<i>For ASTM 120, Deduct</i>	-3.81	
			<i>For Work In Restricted Working Space, Add</i>	11.23	
			<i>For 300 LB Rating, Add</i>	88.57	
22 11 16 00-0063	EA		2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	85.11	31.76
			<i>For ASTM 120, Deduct</i>	-5.64	
			<i>For Work In Restricted Working Space, Add</i>	14.26	
			<i>For 300 LB Rating, Add</i>	130.59	
22 11 16 00-0064	EA		2-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	201.06	46.97
			<i>For ASTM 120, Deduct</i>	-19.61	
			<i>For Work In Restricted Working Space, Add</i>	21.11	
			<i>For 300 LB Rating, Add</i>	448.60	
22 11 16 00-0065	EA		3", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	282.68	61.75
			<i>For ASTM 120, Deduct</i>	-28.51	
			<i>For Work In Restricted Working Space, Add</i>	27.78	
			<i>For 300 LB Rating, Add</i>	651.86	
22 11 16 00-0066	EA		4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	415.49	64.55
			<i>For ASTM 120, Deduct</i>	-47.80	
			<i>For Work In Restricted Working Space, Add</i>	29.04	
			<i>For 300 LB Rating, Add</i>	1,089.35	
22 11 16 00-0067	EA		5", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	1,388.77	67.37
			<i>For ASTM 120, Deduct</i>	-193.16	
			<i>For Work In Restricted Working Space, Add</i>	30.30	
			<i>For 300 LB Rating, Add</i>	4,384.44	
22 11 16 00-0068	EA		6", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	1,658.34	70.44
			<i>For ASTM 120, Deduct</i>	-232.91	
			<i>For Work In Restricted Working Space, Add</i>	31.68	
			<i>For 300 LB Rating, Add</i>	5,285.65	
22 11 16 00-0069			Galvanized Malleable Iron Tees <small>(22 11 16 00-0013)</small>		
22 11 16 00-0070	EA		1/2", 150 LB, Galvanized Malleable Iron Tee	35.15	19.53
			<i>For ASTM 120, Deduct</i>	-0.87	
			<i>For Work In Restricted Working Space, Add</i>	8.80	
			<i>For 300 LB Rating, Add</i>	21.58	
22 11 16 00-0071	EA		3/4", 150 LB, Galvanized Malleable Iron Tee	43.45	22.61
			<i>For ASTM 120, Deduct</i>	-1.44	
			<i>For Work In Restricted Working Space, Add</i>	10.15	
			<i>For 300 LB Rating, Add</i>	34.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0072 EA 1", 150 LB, Galvanized Malleable Iron Tee.....	55.54	26.65
For ASTM 120, Deduct	-2.33	
For Work In Restricted Working Space, Add	12.00	
For 300 LB Rating, Add	55.27	
22 11 16 00-0073 EA 1-1/4", 150 LB, Galvanized Malleable Iron Tee	72.23	31.76
For ASTM 120, Deduct	-3.70	
For Work In Restricted Working Space, Add	14.26	
For 300 LB Rating, Add	86.80	
22 11 16 00-0074 EA 1-1/2", 150 LB, Galvanized Malleable Iron Tee	87.43	37.82
For ASTM 120, Deduct	-4.60	
For Work In Restricted Working Space, Add	17.03	
For 300 LB Rating, Add	107.72	
22 11 16 00-0075 EA 2", 150 LB, Galvanized Malleable Iron Tee.....	120.23	46.97
For ASTM 120, Deduct	-7.48	
For Work In Restricted Working Space, Add	21.11	
For 300 LB Rating, Add	173.78	
22 11 16 00-0076 EA 2-1/2", 150 LB, Galvanized Malleable Iron Tee	216.89	51.01
For ASTM 120, Deduct	-21.06	
For Work In Restricted Working Space, Add	22.94	
For 300 LB Rating, Add	481.98	
22 11 16 00-0077 EA 3", 150 LB, Galvanized Malleable Iron Tee.....	257.25	61.75
For ASTM 120, Deduct	-24.70	
For Work In Restricted Working Space, Add	27.78	
For 300 LB Rating, Add	565.40	
22 11 16 00-0078 EA 4", 150 LB, Galvanized Malleable Iron Tee.....	511.79	81.56
For ASTM 120, Deduct	-58.43	
For Work In Restricted Working Space, Add	36.68	
For 300 LB Rating, Add	1,331.70	
22 11 16 00-0079 EA 5", 150 LB, Galvanized Malleable Iron Tee.....	1,369.61	96.83
For ASTM 120, Deduct	-183.66	
For Work In Restricted Working Space, Add	43.56	
For 300 LB Rating, Add	4,171.71	
22 11 16 00-0080 EA 6", 150 LB, Galvanized Malleable Iron Tee.....	1,554.70	110.68
For ASTM 120, Deduct	-208.32	
For Work In Restricted Working Space, Add	49.78	
For 300 LB Rating, Add	4,731.77	
22 11 16 00-0081 Galvanized Malleable Iron Reducing Tee (22 11 16 00-0013)		
22 11 16 00-0082 EA 1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	42.88	19.53
For ASTM 120, Deduct	-2.03	
For Work In Restricted Working Space, Add	8.80	
For 300 LB Rating, Add	47.86	
22 11 16 00-0083 EA 3/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	47.20	22.61
For ASTM 120, Deduct	-2.01	
For Work In Restricted Working Space, Add	10.15	
For 300 LB Rating, Add	47.49	
22 11 16 00-0084 EA 1", 150 LB, Galvanized Malleable Iron Reducing Tee.....	58.78	26.65
For ASTM 120, Deduct	-2.82	
For Work In Restricted Working Space, Add	12.00	
For 300 LB Rating, Add	66.29	
22 11 16 00-0085 EA 1-1/4", 150 LB, Galvanized Malleable Iron Reducing Tee	76.68	31.76
For ASTM 120, Deduct	-4.37	
For Work In Restricted Working Space, Add	14.26	
For 300 LB Rating, Add	101.93	
22 11 16 00-0086 EA 1-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee	92.74	37.82
For ASTM 120, Deduct	-5.40	
For Work In Restricted Working Space, Add	17.03	
For 300 LB Rating, Add	125.77	
22 11 16 00-0087 EA 2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	122.90	46.97
For ASTM 120, Deduct	-7.88	
For Work In Restricted Working Space, Add	21.11	
For 300 LB Rating, Add	182.86	
22 11 16 00-0088 EA 2-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee	262.30	51.19
For ASTM 120, Deduct	-27.84	
For Work In Restricted Working Space, Add	23.02	
For 300 LB Rating, Add	635.58	
22 11 16 00-0089 EA 3", 150 LB, Galvanized Malleable Iron Reducing Tee.....	334.73	62.72
For ASTM 120, Deduct	-36.10	
For Work In Restricted Working Space, Add	28.22	
For 300 LB Rating, Add	823.96	
22 11 16 00-0090 EA 4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	819.97	81.56
For ASTM 120, Deduct	-104.66	
For Work In Restricted Working Space, Add	36.68	
For 300 LB Rating, Add	2,379.52	
22 11 16 00-0091 EA 5", 150 LB, Galvanized Malleable Iron Reducing Tee.....	1,763.50	96.83
For ASTM 120, Deduct	-242.75	
For Work In Restricted Working Space, Add	43.56	
For 300 LB Rating, Add	5,510.93	
22 11 16 00-0092 EA 6", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,001.45	110.68
For ASTM 120, Deduct	-275.33	
For Work In Restricted Working Space, Add	49.78	
For 300 LB Rating, Add	6,250.72	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0093			Galvanized Malleable Iron Couplings (22 11 16 00-0013)		
22 11 16 00-0094	EA		1/2", 150 LB, Galvanized Malleable Iron Coupling.....	30.05	15.66
			<i>For ASTM 120, Deduct</i>	-0.99	
			<i>For Work In Restricted Working Space, Add</i>	7.04	
			<i>For 300 LB Rating, Add</i>	23.85	
22 11 16 00-0095	EA		3/4", 150 LB, Galvanized Malleable Iron Coupling.....	33.85	17.51
			<i>For ASTM 120, Deduct</i>	-1.14	
			<i>For Work In Restricted Working Space, Add</i>	7.88	
			<i>For 300 LB Rating, Add</i>	27.42	
22 11 16 00-0096	EA		1", 150 LB, Galvanized Malleable Iron Coupling.....	41.78	19.53
			<i>For ASTM 120, Deduct</i>	-1.87	
			<i>For Work In Restricted Working Space, Add</i>	8.80	
			<i>For 300 LB Rating, Add</i>	44.12	
22 11 16 00-0097	EA		1-1/4", 150 LB, Galvanized Malleable Iron Coupling.....	50.76	22.17
			<i>For ASTM 120, Deduct</i>	-2.64	
			<i>For Work In Restricted Working Space, Add</i>	9.96	
			<i>For 300 LB Rating, Add</i>	61.73	
22 11 16 00-0098	EA		1-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	57.40	24.98
			<i>For ASTM 120, Deduct</i>	-3.00	
			<i>For Work In Restricted Working Space, Add</i>	11.23	
			<i>For 300 LB Rating, Add</i>	70.14	
22 11 16 00-0099	EA		2", 150 LB, Galvanized Malleable Iron Coupling.....	76.74	31.76
			<i>For ASTM 120, Deduct</i>	-4.38	
			<i>For Work In Restricted Working Space, Add</i>	14.26	
			<i>For 300 LB Rating, Add</i>	102.13	
22 11 16 00-0100	EA		2-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	159.74	46.97
			<i>For ASTM 120, Deduct</i>	-13.41	
			<i>For Work In Restricted Working Space, Add</i>	21.11	
			<i>For 300 LB Rating, Add</i>	308.11	
22 11 16 00-0101	EA		3", 150 LB, Galvanized Malleable Iron Coupling.....	212.05	61.75
			<i>For ASTM 120, Deduct</i>	-17.92	
			<i>For Work In Restricted Working Space, Add</i>	27.78	
			<i>For 300 LB Rating, Add</i>	411.72	
22 11 16 00-0102	EA		4", 150 LB, Galvanized Malleable Iron Coupling.....	350.51	64.55
			<i>For ASTM 120, Deduct</i>	-38.06	
			<i>For Work In Restricted Working Space, Add</i>	29.04	
			<i>For 300 LB Rating, Add</i>	868.42	
22 11 16 00-0103	EA		5", 150 LB, Galvanized Malleable Iron Coupling.....	815.41	67.37
			<i>For ASTM 120, Deduct</i>	-107.16	
			<i>For Work In Restricted Working Space, Add</i>	30.30	
			<i>For 300 LB Rating, Add</i>	2,435.02	
22 11 16 00-0104	EA		6", 150 LB, Galvanized Malleable Iron Coupling.....	919.50	70.44
			<i>For ASTM 120, Deduct</i>	-122.09	
			<i>For Work In Restricted Working Space, Add</i>	31.68	
			<i>For 300 LB Rating, Add</i>	2,773.60	
22 11 16 00-0105			Galvanized Malleable Iron Reducing Couplings (22 11 16 00-0013)		
22 11 16 00-0106	EA		1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	31.45	15.66
			<i>For ASTM 120, Deduct</i>	-1.20	
			<i>For Work In Restricted Working Space, Add</i>	7.04	
			<i>For 300 LB Rating, Add</i>	28.61	
22 11 16 00-0107	EA		3/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	34.80	17.51
			<i>For ASTM 120, Deduct</i>	-1.28	
			<i>For Work In Restricted Working Space, Add</i>	7.88	
			<i>For 300 LB Rating, Add</i>	30.65	
22 11 16 00-0108	EA		1", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	43.58	19.53
			<i>For ASTM 120, Deduct</i>	-2.14	
			<i>For Work In Restricted Working Space, Add</i>	8.80	
			<i>For 300 LB Rating, Add</i>	50.24	
22 11 16 00-0109	EA		1-1/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	51.63	22.17
			<i>For ASTM 120, Deduct</i>	-2.77	
			<i>For Work In Restricted Working Space, Add</i>	9.96	
			<i>For 300 LB Rating, Add</i>	64.69	
22 11 16 00-0110	EA		1-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	61.21	24.98
			<i>For ASTM 120, Deduct</i>	-3.57	
			<i>For Work In Restricted Working Space, Add</i>	11.23	
			<i>For 300 LB Rating, Add</i>	83.10	
22 11 16 00-0111	EA		2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	79.98	31.76
			<i>For ASTM 120, Deduct</i>	-4.87	
			<i>For Work In Restricted Working Space, Add</i>	14.26	
			<i>For 300 LB Rating, Add</i>	113.15	
22 11 16 00-0112	EA		2-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	160.87	46.97
			<i>For ASTM 120, Deduct</i>	-13.58	
			<i>For Work In Restricted Working Space, Add</i>	21.11	
			<i>For 300 LB Rating, Add</i>	311.96	
22 11 16 00-0113	EA		3", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	208.67	61.75
			<i>For ASTM 120, Deduct</i>	-17.41	
			<i>For Work In Restricted Working Space, Add</i>	27.78	
			<i>For 300 LB Rating, Add</i>	400.23	
22 11 16 00-0114	EA		4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	357.05	64.55
			<i>For ASTM 120, Deduct</i>	-39.04	
			<i>For Work In Restricted Working Space, Add</i>	29.04	
			<i>For 300 LB Rating, Add</i>	890.66	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11	16 00-0115	EA	5", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	853.02 -112.80 30.30 2,562.89	67.37
	22 11	16 00-0116	EA	6", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	962.33 -128.51 31.68 2,919.22	70.44
22 11	16 00-0117	Galvanized Malleable Iron Caps (22 11 16 00-0013)				
	22 11	16 00-0118	EA	1/2", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	15.99 -0.75 3.30 17.63	7.30
	22 11	16 00-0119	EA	3/4", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	18.64 -1.04 3.52 24.20	7.83
	22 11	16 00-0120	EA	1", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	22.10 -1.29 4.06 29.95	9.06
	22 11	16 00-0121	EA	1-1/4", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	25.47 -1.69 4.26 39.20	9.50
	22 11	16 00-0122	EA	1-1/2", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	28.64 -2.17 4.26 49.98	9.50
	22 11	16 00-0123	EA	2", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	39.15 -3.03 5.68 69.92	12.58
	22 11	16 00-0124	EA	2-1/2", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	82.22 -8.82 7.04 201.23	15.66
	22 11	16 00-0125	EA	3", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	99.59 -10.68 8.51 243.85	18.91
	22 11	16 00-0126	EA	4", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	190.54 -23.60 9.95 537.01	22.16
	22 11	16 00-0127	EA	5", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	463.66 -63.33 12.44 1,437.90	27.71
	22 11	16 00-0128	EA	6", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	582.98 -80.03 14.83 1,817.04	32.94
22 11	16 00-0129	Galvanized Malleable Iron Unions (22 11 16 00-0013)				
	22 11	16 00-0130	EA	1/2", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	48.82 8.80	19.53
	22 11	16 00-0131	EA	3/4", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	56.24 10.15	22.61
	22 11	16 00-0132	EA	1", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	69.34 12.00	26.65
	22 11	16 00-0133	EA	1-1/4", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	89.97 14.26	31.76
	22 11	16 00-0134	EA	1-1/2", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	108.17 17.03	37.82
	22 11	16 00-0135	EA	2", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	129.46 21.11	46.97
	22 11	16 00-0136	EA	2-1/2", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	309.20 31.16	69.23
	22 11	16 00-0137	EA	3", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	424.05 41.00	91.04
	22 11	16 00-0138	EA	1/2", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	68.98 8.80	19.53
	22 11	16 00-0139	EA	3/4", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	69.87 10.15	22.61
	22 11	16 00-0140	EA	1", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	84.66 11.99	26.65
	22 11	16 00-0141	EA	1-1/4", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	115.20 14.26	31.76
	22 11	16 00-0142	EA	1-1/2", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	134.64 17.03	37.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0143 EA 2", 250 LB, Galvanized Malleable Iron Union.....	180.36	46.97
For Work In Restricted Working Space, Add	21.11	
22 11 16 00-0144 EA 2-1/2", 250 LB, Galvanized Malleable Iron Union	393.25	69.23
For Work In Restricted Working Space, Add	31.16	
22 11 16 00-0145 EA 3", 250 LB, Galvanized Malleable Iron Union.....	580.66	91.04
For Work In Restricted Working Space, Add	41.00	
22 11 16 00-0146 EA 4", 250 LB, Galvanized Malleable Iron Union.....	839.34	95.25
For Work In Restricted Working Space, Add	42.87	
22 11 16 00-0147 EA 1/2", 300 LB, Galvanized Malleable Iron Union.....	74.51	19.53
For Work In Restricted Working Space, Add	8.80	
22 11 16 00-0148 EA 3/4", 300 LB, Galvanized Malleable Iron Union.....	82.84	22.61
For Work In Restricted Working Space, Add	10.15	
22 11 16 00-0149 EA 1", 300 LB, Galvanized Malleable Iron Union.....	104.99	26.65
For Work In Restricted Working Space, Add	11.99	
22 11 16 00-0150 EA 1-1/4", 300 LB, Galvanized Malleable Iron Union	138.19	31.76
For Work In Restricted Working Space, Add	14.26	
22 11 16 00-0151 EA 1-1/2", 300 LB, Galvanized Malleable Iron Union	165.90	37.82
For Work In Restricted Working Space, Add	17.03	
22 11 16 00-0152 EA 2", 300 LB, Galvanized Malleable Iron Union.....	201.37	46.97
For Work In Restricted Working Space, Add	21.11	
22 11 16 00-0153 EA 2-1/2", 300 LB, Galvanized Malleable Iron Union	469.33	69.23
For Work In Restricted Working Space, Add	31.16	
22 11 16 00-0154 EA 3", 300 LB, Galvanized Malleable Iron Union.....	754.75	91.04
For Work In Restricted Working Space, Add	41.00	
22 11 16 00-0155 EA 4", 300 LB, Galvanized Malleable Iron Union.....	1,693.03	95.25
For Work In Restricted Working Space, Add	42.87	
22 11 16 00-0156 Galvanized Steel Nipples (22 11 16 00-0013)		
Note: ASTM A-53.		
22 11 16 00-0157 EA 3/8" x Close, Schedule 40 Galvanized Steel Nipple.....	14.19	8.35
For ASTM 120, Deduct	-0.24	
For Work In Restricted Working Space, Add	3.77	
For Schedule 80 Nipples, Add	1.85	
22 11 16 00-0158 EA 1/2" x Close, Schedule 40 Galvanized Steel Nipple.....	13.88	8.35
For ASTM 120, Deduct	-0.20	
For Work In Restricted Working Space, Add	3.77	
For Schedule 80 Nipples, Add	1.49	
22 11 16 00-0159 EA 3/4" x Close, Schedule 40 Galvanized Steel Nipple.....	14.17	8.35
For ASTM 120, Deduct	-0.24	
For Work In Restricted Working Space, Add	3.77	
For Schedule 80 Nipples, Add	1.82	
22 11 16 00-0160 EA 1" x Close, Schedule 40 Galvanized Steel Nipple.....	15.72	9.06
For ASTM 120, Deduct	-0.33	
For Work In Restricted Working Space, Add	4.06	
For Schedule 80 Nipples, Add	2.50	
22 11 16 00-0161 EA 1-1/4" x Close, Schedule 40 Galvanized Steel Nipple	17.60	9.76
For ASTM 120, Deduct	-0.44	
For Work In Restricted Working Space, Add	4.40	
For Schedule 80 Nipples, Add	3.35	
22 11 16 00-0162 EA 1-1/2" x Close, Schedule 40 Galvanized Steel Nipple	18.10	9.76
For ASTM 120, Deduct	-0.52	
For Work In Restricted Working Space, Add	4.40	
For Schedule 80 Nipples, Add	3.92	
22 11 16 00-0163 EA 2" x Close, Schedule 40 Galvanized Steel Nipple.....	23.78	12.58
For ASTM 120, Deduct	-0.73	
For Work In Restricted Working Space, Add	5.68	
For Schedule 80 Nipples, Add	5.54	
22 11 16 00-0164 EA 2-1/2" x Close, Schedule 40 Galvanized Steel Nipple	37.91	15.66
For ASTM 120, Deduct	-2.17	
For Work In Restricted Working Space, Add	7.04	
For Schedule 80 Nipples, Add	16.48	
22 11 16 00-0165 EA 3" x Close, Schedule 40 Galvanized Steel Nipple.....	45.69	18.91
For ASTM 120, Deduct	-2.60	
For Work In Restricted Working Space, Add	8.51	
For Schedule 80 Nipples, Add	19.74	
22 11 16 00-0166 EA 4" x Close, Schedule 40 Galvanized Steel Nipple.....	59.14	22.16
For ASTM 120, Deduct	-3.89	
For Work In Restricted Working Space, Add	9.95	
For Schedule 80 Nipples, Add	29.59	
22 11 16 00-0167 EA 3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	14.43	8.35
For ASTM 120, Deduct	-0.28	
For Work In Restricted Working Space, Add	3.77	
For Schedule 80 Nipples, Add	2.12	
22 11 16 00-0168 EA 1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	13.95	8.35
For ASTM 120, Deduct	-0.21	
For Work In Restricted Working Space, Add	3.77	
For Schedule 80 Nipples, Add	1.57	
22 11 16 00-0169 EA 3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	14.31	8.35
For ASTM 120, Deduct	-0.26	
For Work In Restricted Working Space, Add	3.77	
For Schedule 80 Nipples, Add	1.98	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0170	EA			3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple 14.43		8.35
				<i>For ASTM 120, Deduct</i>	-0.28	
				<i>For Work In Restricted Working Space, Add</i>	3.77	
				<i>For Schedule 80 Nipples, Add</i>	2.12	
22 11 16 00-0171	EA			1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple 13.95		8.35
				<i>For ASTM 120, Deduct</i>	-0.21	
				<i>For Work In Restricted Working Space, Add</i>	3.77	
				<i>For Schedule 80 Nipples, Add</i>	1.57	
22 11 16 00-0172	EA			3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple 14.31		8.35
				<i>For ASTM 120, Deduct</i>	-0.26	
				<i>For Work In Restricted Working Space, Add</i>	3.77	
				<i>For Schedule 80 Nipples, Add</i>	1.98	
22 11 16 00-0173	EA			1" x 2" Long, Schedule 40 Galvanized Steel Nipple 16.11		9.06
				<i>For ASTM 120, Deduct</i>	-0.39	
				<i>For Work In Restricted Working Space, Add</i>	4.06	
				<i>For Schedule 80 Nipples, Add</i>	2.94	
22 11 16 00-0174	EA			1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple 17.81		9.76
				<i>For ASTM 120, Deduct</i>	-0.47	
				<i>For Work In Restricted Working Space, Add</i>	4.40	
				<i>For Schedule 80 Nipples, Add</i>	3.59	
22 11 16 00-0175	EA			1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple 18.36		9.76
				<i>For ASTM 120, Deduct</i>	-0.56	
				<i>For Work In Restricted Working Space, Add</i>	4.40	
				<i>For Schedule 80 Nipples, Add</i>	4.22	
22 11 16 00-0176	EA			3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple 15.05		8.35
				<i>For ASTM 120, Deduct</i>	-0.37	
				<i>For Work In Restricted Working Space, Add</i>	3.77	
				<i>For Schedule 80 Nipples, Add</i>	2.83	
22 11 16 00-0177	EA			1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple 14.19		8.35
				<i>For ASTM 120, Deduct</i>	-0.24	
				<i>For Work In Restricted Working Space, Add</i>	3.77	
				<i>For Schedule 80 Nipples, Add</i>	1.85	
22 11 16 00-0178	EA			3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple 14.49		8.35
				<i>For ASTM 120, Deduct</i>	-0.29	
				<i>For Work In Restricted Working Space, Add</i>	3.77	
				<i>For Schedule 80 Nipples, Add</i>	2.19	
22 11 16 00-0179	EA			1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple 16.33		9.06
				<i>For ASTM 120, Deduct</i>	-0.42	
				<i>For Work In Restricted Working Space, Add</i>	4.06	
				<i>For Schedule 80 Nipples, Add</i>	3.19	
22 11 16 00-0180	EA			1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple 18.12		9.76
				<i>For ASTM 120, Deduct</i>	-0.52	
				<i>For Work In Restricted Working Space, Add</i>	4.40	
				<i>For Schedule 80 Nipples, Add</i>	3.94	
22 11 16 00-0181	EA			1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple 18.78		9.76
				<i>For ASTM 120, Deduct</i>	-0.62	
				<i>For Work In Restricted Working Space, Add</i>	4.40	
				<i>For Schedule 80 Nipples, Add</i>	4.70	
22 11 16 00-0182	EA			2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple 24.38		12.58
				<i>For ASTM 120, Deduct</i>	-0.82	
				<i>For Work In Restricted Working Space, Add</i>	5.68	
				<i>For Schedule 80 Nipples, Add</i>	6.22	
22 11 16 00-0183	EA			3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple 15.05		8.35
				<i>For ASTM 120, Deduct</i>	-0.37	
				<i>For Work In Restricted Working Space, Add</i>	3.77	
				<i>For Schedule 80 Nipples, Add</i>	2.83	
22 11 16 00-0184	EA			1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple 14.19		8.35
				<i>For ASTM 120, Deduct</i>	-0.24	
				<i>For Work In Restricted Working Space, Add</i>	3.77	
				<i>For Schedule 80 Nipples, Add</i>	1.85	
22 11 16 00-0185	EA			3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple 14.49		8.35
				<i>For ASTM 120, Deduct</i>	-0.29	
				<i>For Work In Restricted Working Space, Add</i>	3.77	
				<i>For Schedule 80 Nipples, Add</i>	2.19	
22 11 16 00-0186	EA			1" x 3" Long, Schedule 40 Galvanized Steel Nipple 16.33		9.06
				<i>For ASTM 120, Deduct</i>	-0.42	
				<i>For Work In Restricted Working Space, Add</i>	4.06	
				<i>For Schedule 80 Nipples, Add</i>	3.19	
22 11 16 00-0187	EA			1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple 18.12		9.76
				<i>For ASTM 120, Deduct</i>	-0.52	
				<i>For Work In Restricted Working Space, Add</i>	4.40	
				<i>For Schedule 80 Nipples, Add</i>	3.94	
22 11 16 00-0188	EA			1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple 18.78		9.76
				<i>For ASTM 120, Deduct</i>	-0.62	
				<i>For Work In Restricted Working Space, Add</i>	4.40	
				<i>For Schedule 80 Nipples, Add</i>	4.70	
22 11 16 00-0189	EA			2" x 3" Long, Schedule 40 Galvanized Steel Nipple 24.38		12.58
				<i>For ASTM 120, Deduct</i>	-0.82	
				<i>For Work In Restricted Working Space, Add</i>	5.68	
				<i>For Schedule 80 Nipples, Add</i>	6.22	
22 11 16 00-0190	EA			2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple 38.46		15.66
				<i>For ASTM 120, Deduct</i>	-2.25	
				<i>For Work In Restricted Working Space, Add</i>	7.04	
				<i>For Schedule 80 Nipples, Add</i>	17.11	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0191	EA		3" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	48.08	18.91
			<i>For ASTM 120, Deduct</i>	-2.96	
			<i>For Work In Restricted Working Space, Add</i>	8.51	
			<i>For Schedule 80 Nipples, Add</i>	22.47	
22 11 16 00-0192	EA		3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	15.52	8.35
			<i>For ASTM 120, Deduct</i>	-0.44	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
			<i>For Schedule 80 Nipples, Add</i>	3.36	
22 11 16 00-0193	EA		1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	14.57	8.35
			<i>For ASTM 120, Deduct</i>	-0.30	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
			<i>For Schedule 80 Nipples, Add</i>	2.28	
22 11 16 00-0194	EA		3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	15.05	8.35
			<i>For ASTM 120, Deduct</i>	-0.37	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
			<i>For Schedule 80 Nipples, Add</i>	2.83	
22 11 16 00-0195	EA		1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	16.89	9.06
			<i>For ASTM 120, Deduct</i>	-0.50	
			<i>For Work In Restricted Working Space, Add</i>	4.06	
			<i>For Schedule 80 Nipples, Add</i>	3.83	
22 11 16 00-0196	EA		1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	18.78	9.76
			<i>For ASTM 120, Deduct</i>	-0.62	
			<i>For Work In Restricted Working Space, Add</i>	4.40	
			<i>For Schedule 80 Nipples, Add</i>	4.70	
22 11 16 00-0197	EA		1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.87	9.76
			<i>For ASTM 120, Deduct</i>	-0.78	
			<i>For Work In Restricted Working Space, Add</i>	4.40	
			<i>For Schedule 80 Nipples, Add</i>	5.94	
22 11 16 00-0198	EA		2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	25.56	12.58
			<i>For ASTM 120, Deduct</i>	-1.00	
			<i>For Work In Restricted Working Space, Add</i>	5.68	
			<i>For Schedule 80 Nipples, Add</i>	7.57	
22 11 16 00-0199	EA		2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	40.87	15.66
			<i>For ASTM 120, Deduct</i>	-2.61	
			<i>For Work In Restricted Working Space, Add</i>	7.04	
			<i>For Schedule 80 Nipples, Add</i>	19.86	
22 11 16 00-0200	EA		3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	51.50	18.91
			<i>For ASTM 120, Deduct</i>	-3.47	
			<i>For Work In Restricted Working Space, Add</i>	8.51	
			<i>For Schedule 80 Nipples, Add</i>	26.37	
22 11 16 00-0201	EA		3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	15.52	8.35
			<i>For ASTM 120, Deduct</i>	-0.44	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
			<i>For Schedule 80 Nipples, Add</i>	3.36	
22 11 16 00-0202	EA		1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	14.57	8.35
			<i>For ASTM 120, Deduct</i>	-0.30	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
			<i>For Schedule 80 Nipples, Add</i>	2.28	
22 11 16 00-0203	EA		3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	15.52	8.35
			<i>For ASTM 120, Deduct</i>	-0.44	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
			<i>For Schedule 80 Nipples, Add</i>	3.36	
22 11 16 00-0204	EA		1" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	16.89	9.06
			<i>For ASTM 120, Deduct</i>	-0.50	
			<i>For Work In Restricted Working Space, Add</i>	4.06	
			<i>For Schedule 80 Nipples, Add</i>	3.83	
22 11 16 00-0205	EA		1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple	18.78	9.76
			<i>For ASTM 120, Deduct</i>	-0.62	
			<i>For Work In Restricted Working Space, Add</i>	4.40	
			<i>For Schedule 80 Nipples, Add</i>	4.70	
22 11 16 00-0206	EA		1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	19.87	9.76
			<i>For ASTM 120, Deduct</i>	-0.78	
			<i>For Work In Restricted Working Space, Add</i>	4.40	
			<i>For Schedule 80 Nipples, Add</i>	5.94	
22 11 16 00-0207	EA		2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	25.61	12.58
			<i>For ASTM 120, Deduct</i>	-1.00	
			<i>For Work In Restricted Working Space, Add</i>	5.68	
			<i>For Schedule 80 Nipples, Add</i>	7.63	
22 11 16 00-0208	EA		2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	40.87	15.66
			<i>For ASTM 120, Deduct</i>	-2.61	
			<i>For Work In Restricted Working Space, Add</i>	7.04	
			<i>For Schedule 80 Nipples, Add</i>	19.86	
22 11 16 00-0209	EA		3" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	51.50	18.91
			<i>For ASTM 120, Deduct</i>	-3.47	
			<i>For Work In Restricted Working Space, Add</i>	8.51	
			<i>For Schedule 80 Nipples, Add</i>	26.37	
22 11 16 00-0210	EA		4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	64.23	22.16
			<i>For ASTM 120, Deduct</i>	-4.66	
			<i>For Work In Restricted Working Space, Add</i>	9.95	
			<i>For Schedule 80 Nipples, Add</i>	35.40	
22 11 16 00-0211	EA		3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	16.64	8.35
			<i>For ASTM 120, Deduct</i>	-0.61	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
			<i>For Schedule 80 Nipples, Add</i>	4.64	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0212	EA		1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	14.98 -0.36 3.77 2.75	8.35
22 11 16 00-0213	EA		3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	15.53 -0.44 3.77 3.37	8.35
22 11 16 00-0214	EA		1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	17.65 -0.62 4.06 4.70	9.06
22 11 16 00-0215	EA		1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	19.76 -0.77 4.40 5.81	9.76
22 11 16 00-0216	EA		1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	20.96 -0.95 4.40 7.18	9.76
22 11 16 00-0217	EA		2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	27.39 -1.27 5.68 9.66	12.58
22 11 16 00-0218	EA		2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	42.88 -2.91 7.04 22.15	15.66
22 11 16 00-0219	EA		3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	55.32 -4.04 8.51 30.72	18.91
22 11 16 00-0220	EA		4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	68.00 -5.22 9.95 39.69	22.16
22 11 16 00-0221	EA		3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	16.64 -0.61 3.77 4.64	8.35
22 11 16 00-0222	EA		1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	14.98 -0.36 3.77 2.75	8.35
22 11 16 00-0223	EA		3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	15.53 -0.44 3.77 3.37	8.35
22 11 16 00-0224	EA		1" x 5" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	17.65 -0.62 4.06 4.70	9.06
22 11 16 00-0225	EA		1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	19.76 -0.77 4.40 5.81	9.76
22 11 16 00-0226	EA		1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	20.96 -0.95 4.40 7.18	9.76
22 11 16 00-0227	EA		2" x 5" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	27.39 -1.27 5.68 9.66	12.58
22 11 16 00-0228	EA		2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	42.88 -2.91 7.04 22.15	15.66
22 11 16 00-0229	EA		3" x 5" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	55.32 -4.04 8.51 30.72	18.91
22 11 16 00-0230	EA		4" x 5" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	68.00 -5.22 9.95 39.69	22.16
22 11 16 00-0231	EA		3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	17.09 -0.68 3.77 5.15	8.35
22 11 16 00-0232	EA		1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	15.31 -0.41 3.77 3.12	8.35

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0233	EA		3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	16.13	8.35
			<i>For ASTM 120, Deduct</i>	-0.53	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
			<i>For Schedule 80 Nipples, Add</i>	4.06	
22 11 16 00-0234	EA		1" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	18.20	9.06
			<i>For ASTM 120, Deduct</i>	-0.70	
			<i>For Work In Restricted Working Space, Add</i>	4.06	
			<i>For Schedule 80 Nipples, Add</i>	5.32	
22 11 16 00-0235	EA		1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	20.58	9.76
			<i>For ASTM 120, Deduct</i>	-0.89	
			<i>For Work In Restricted Working Space, Add</i>	4.40	
			<i>For Schedule 80 Nipples, Add</i>	6.75	
22 11 16 00-0236	EA		1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	21.75	9.76
			<i>For ASTM 120, Deduct</i>	-1.06	
			<i>For Work In Restricted Working Space, Add</i>	4.40	
			<i>For Schedule 80 Nipples, Add</i>	8.08	
22 11 16 00-0237	EA		2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	28.76	12.58
			<i>For ASTM 120, Deduct</i>	-1.48	
			<i>For Work In Restricted Working Space, Add</i>	5.68	
			<i>For Schedule 80 Nipples, Add</i>	11.22	
22 11 16 00-0238	EA		2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	44.80	15.66
			<i>For ASTM 120, Deduct</i>	-3.20	
			<i>For Work In Restricted Working Space, Add</i>	7.04	
			<i>For Schedule 80 Nipples, Add</i>	24.34	
22 11 16 00-0239	EA		3" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	56.87	18.91
			<i>For ASTM 120, Deduct</i>	-4.28	
			<i>For Work In Restricted Working Space, Add</i>	8.51	
			<i>For Schedule 80 Nipples, Add</i>	32.49	
22 11 16 00-0240	EA		4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	71.67	22.16
			<i>For ASTM 120, Deduct</i>	-5.77	
			<i>For Work In Restricted Working Space, Add</i>	9.95	
			<i>For Schedule 80 Nipples, Add</i>	43.88	
22 11 16 00-0241	EA		3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	30.63	8.35
			<i>For ASTM 120, Deduct</i>	-2.71	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
			<i>For Schedule 80 Nipples, Add</i>	20.59	
22 11 16 00-0242	EA		1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	17.40	8.35
			<i>For ASTM 120, Deduct</i>	-0.72	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
			<i>For Schedule 80 Nipples, Add</i>	5.51	
22 11 16 00-0243	EA		3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	18.74	8.35
			<i>For ASTM 120, Deduct</i>	-0.93	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
			<i>For Schedule 80 Nipples, Add</i>	7.03	
22 11 16 00-0244	EA		1" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	21.35	9.06
			<i>For ASTM 120, Deduct</i>	-1.17	
			<i>For Work In Restricted Working Space, Add</i>	4.06	
			<i>For Schedule 80 Nipples, Add</i>	8.91	
22 11 16 00-0245	EA		1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple	24.25	9.76
			<i>For ASTM 120, Deduct</i>	-1.44	
			<i>For Work In Restricted Working Space, Add</i>	4.40	
			<i>For Schedule 80 Nipples, Add</i>	10.93	
22 11 16 00-0246	EA		1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	25.66	9.76
			<i>For ASTM 120, Deduct</i>	-1.65	
			<i>For Work In Restricted Working Space, Add</i>	4.40	
			<i>For Schedule 80 Nipples, Add</i>	12.54	
22 11 16 00-0247	EA		2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	34.96	12.58
			<i>For ASTM 120, Deduct</i>	-2.41	
			<i>For Work In Restricted Working Space, Add</i>	5.68	
			<i>For Schedule 80 Nipples, Add</i>	18.29	
22 11 16 00-0248	EA		2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	50.92	15.66
			<i>For ASTM 120, Deduct</i>	-4.12	
			<i>For Work In Restricted Working Space, Add</i>	7.04	
			<i>For Schedule 80 Nipples, Add</i>	31.32	
22 11 16 00-0249	EA		3" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	66.77	18.91
			<i>For ASTM 120, Deduct</i>	-5.76	
			<i>For Work In Restricted Working Space, Add</i>	8.51	
			<i>For Schedule 80 Nipples, Add</i>	43.78	
22 11 16 00-0250	EA		4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	79.11	22.16
			<i>For ASTM 120, Deduct</i>	-6.89	
			<i>For Work In Restricted Working Space, Add</i>	9.95	
			<i>For Schedule 80 Nipples, Add</i>	52.36	
22 11 16 00-0251	EA		3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	21.18	8.35
			<i>For ASTM 120, Deduct</i>	-1.29	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
			<i>For Schedule 80 Nipples, Add</i>	9.82	
22 11 16 00-0252	EA		1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	18.30	8.35
			<i>For ASTM 120, Deduct</i>	-0.86	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
			<i>For Schedule 80 Nipples, Add</i>	6.53	
22 11 16 00-0253	EA		3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	19.42	8.35
			<i>For ASTM 120, Deduct</i>	-1.03	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
			<i>For Schedule 80 Nipples, Add</i>	7.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0254 EA 1" x 10" Long, Schedule 40 Galvanized Steel Nipple	22.47	9.06
<i>For ASTM 120, Deduct</i>	-1.34	
<i>For Work In Restricted Working Space, Add</i>	4.06	
<i>For Schedule 80 Nipples, Add</i>	10.19	
22 11 16 00-0255 EA 1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple	26.12	9.76
<i>For ASTM 120, Deduct</i>	-1.72	
<i>For Work In Restricted Working Space, Add</i>	4.40	
<i>For Schedule 80 Nipples, Add</i>	13.06	
22 11 16 00-0256 EA 1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	27.48	9.76
<i>For ASTM 120, Deduct</i>	-1.92	
<i>For Work In Restricted Working Space, Add</i>	4.40	
<i>For Schedule 80 Nipples, Add</i>	14.61	
22 11 16 00-0257 EA 2" x 10" Long, Schedule 40 Galvanized Steel Nipple	37.68	12.58
<i>For ASTM 120, Deduct</i>	-2.81	
<i>For Work In Restricted Working Space, Add</i>	5.68	
<i>For Schedule 80 Nipples, Add</i>	21.39	
22 11 16 00-0258 EA 2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	54.76	15.66
<i>For ASTM 120, Deduct</i>	-4.70	
<i>For Work In Restricted Working Space, Add</i>	7.04	
<i>For Schedule 80 Nipples, Add</i>	35.69	
22 11 16 00-0259 EA 3" x 10" Long, Schedule 40 Galvanized Steel Nipple	72.18	18.91
<i>For ASTM 120, Deduct</i>	-6.57	
<i>For Work In Restricted Working Space, Add</i>	8.51	
<i>For Schedule 80 Nipples, Add</i>	49.94	
22 11 16 00-0260 EA 4" x 10" Long, Schedule 40 Galvanized Steel Nipple	86.40	22.16
<i>For ASTM 120, Deduct</i>	-7.98	
<i>For Work In Restricted Working Space, Add</i>	9.95	
<i>For Schedule 80 Nipples, Add</i>	60.67	
22 11 16 00-0261 EA 3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple	22.11	8.35
<i>For ASTM 120, Deduct</i>	-1.43	
<i>For Work In Restricted Working Space, Add</i>	3.77	
<i>For Schedule 80 Nipples, Add</i>	10.88	
22 11 16 00-0262 EA 1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	19.09	8.35
<i>For ASTM 120, Deduct</i>	-0.98	
<i>For Work In Restricted Working Space, Add</i>	3.77	
<i>For Schedule 80 Nipples, Add</i>	7.43	
22 11 16 00-0263 EA 3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple	20.25	8.35
<i>For ASTM 120, Deduct</i>	-1.15	
<i>For Work In Restricted Working Space, Add</i>	3.77	
<i>For Schedule 80 Nipples, Add</i>	8.76	
22 11 16 00-0264 EA 1" x 12" Long, Schedule 40 Galvanized Steel Nipple	23.93	9.06
<i>For ASTM 120, Deduct</i>	-1.56	
<i>For Work In Restricted Working Space, Add</i>	4.06	
<i>For Schedule 80 Nipples, Add</i>	11.86	
22 11 16 00-0265 EA 1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple	28.43	9.76
<i>For ASTM 120, Deduct</i>	-2.07	
<i>For Work In Restricted Working Space, Add</i>	4.40	
<i>For Schedule 80 Nipples, Add</i>	15.70	
22 11 16 00-0266 EA 1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	29.33	9.76
<i>For ASTM 120, Deduct</i>	-2.20	
<i>For Work In Restricted Working Space, Add</i>	4.40	
<i>For Schedule 80 Nipples, Add</i>	16.72	
22 11 16 00-0267 EA 2" x 12" Long, Schedule 40 Galvanized Steel Nipple	40.45	12.58
<i>For ASTM 120, Deduct</i>	-3.23	
<i>For Work In Restricted Working Space, Add</i>	5.68	
<i>For Schedule 80 Nipples, Add</i>	24.54	
22 11 16 00-0268 EA 2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	58.49	15.66
<i>For ASTM 120, Deduct</i>	-5.26	
<i>For Work In Restricted Working Space, Add</i>	7.04	
<i>For Schedule 80 Nipples, Add</i>	39.95	
22 11 16 00-0269 EA 3" x 12" Long, Schedule 40 Galvanized Steel Nipple	77.63	18.91
<i>For ASTM 120, Deduct</i>	-7.39	
<i>For Work In Restricted Working Space, Add</i>	8.51	
<i>For Schedule 80 Nipples, Add</i>	56.16	
22 11 16 00-0270 EA 4" x 12" Long, Schedule 40 Galvanized Steel Nipple	93.77	22.16
<i>For ASTM 120, Deduct</i>	-9.09	
<i>For Work In Restricted Working Space, Add</i>	9.95	
<i>For Schedule 80 Nipples, Add</i>	69.07	
22 11 16 00-0271 Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)		
22 11 16 00-0272 EA 1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	17.43	6.25
<i>For Work In Restricted Working Space, Add</i>	2.82	
<i>For 300 LB Rating, Add</i>	27.90	
22 11 16 00-0273 EA 3/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	18.54	7.03
<i>For Work In Restricted Working Space, Add</i>	3.15	
<i>For 300 LB Rating, Add</i>	27.97	
22 11 16 00-0274 EA 1", 150 LB, Galvanized Malleable Iron Square Head Plug.....	20.54	7.83
<i>For Work In Restricted Working Space, Add</i>	3.52	
<i>For 300 LB Rating, Add</i>	30.69	
22 11 16 00-0275 EA 1-1/4", 150 LB, Galvanized Malleable Iron Square Head Plug	26.83	8.88
<i>For Work In Restricted Working Space, Add</i>	3.98	
<i>For 300 LB Rating, Add</i>	46.90	
22 11 16 00-0276 EA 1-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug	33.23	9.94
<i>For Work In Restricted Working Space, Add</i>	4.49	
<i>For 300 LB Rating, Add</i>	62.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0277	EA		2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	42.24	12.67
			<i>For Work In Restricted Working Space, Add</i>	5.71	
			<i>For 300 LB Rating, Add</i>	80.09	
22 11 16 00-0278	EA		2-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	73.43	18.74
			<i>For Work In Restricted Working Space, Add</i>	8.44	
			<i>For 300 LB Rating, Add</i>	155.67	
22 11 16 00-0279	EA		3", 150 LB, Galvanized Malleable Iron Square Head Plug.....	101.30	24.71
			<i>For Work In Restricted Working Space, Add</i>	11.11	
			<i>For 300 LB Rating, Add</i>	220.71	
22 11 16 00-0280	EA		4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	172.13	25.80
			<i>For Work In Restricted Working Space, Add</i>	11.62	
			<i>For 300 LB Rating, Add</i>	455.92	
22 11 16 00-0281	EA		5", 150 LB, Galvanized Malleable Iron Square Head Plug.....	285.17	26.97
			<i>For Work In Restricted Working Space, Add</i>	12.12	
			<i>For 300 LB Rating, Add</i>	834.64	
22 11 16 00-0282	EA		6", 150 LB, Galvanized Malleable Iron Square Head Plug.....	306.85	28.13
			<i>For Work In Restricted Working Space, Add</i>	12.67	
			<i>For 300 LB Rating, Add</i>	902.21	
22 11 16 00-0283			Galvanized Malleable Iron Bushing <small>(22 11 16 00-0013)</small>		
22 11 16 00-0284	EA		3/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	35.75	16.53
			<i>For Work In Restricted Working Space, Add</i>	7.46	
22 11 16 00-0285	EA		1" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	39.43	17.59
			<i>For Work In Restricted Working Space, Add</i>	7.92	
22 11 16 00-0286	EA		1" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	40.15	18.55
			<i>For Work In Restricted Working Space, Add</i>	8.34	
22 11 16 00-0287	EA		1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	46.58	18.91
			<i>For Work In Restricted Working Space, Add</i>	8.50	
22 11 16 00-0288	EA		1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	46.33	19.79
			<i>For Work In Restricted Working Space, Add</i>	8.92	
22 11 16 00-0289	EA		1-1/4" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	47.86	20.85
			<i>For Work In Restricted Working Space, Add</i>	9.38	
22 11 16 00-0290	EA		1-1/2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	54.58	20.31
			<i>For Work In Restricted Working Space, Add</i>	9.14	
22 11 16 00-0291	EA		1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	55.97	21.20
			<i>For Work In Restricted Working Space, Add</i>	9.55	
22 11 16 00-0292	EA		1-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	55.13	22.26
			<i>For Work In Restricted Working Space, Add</i>	10.01	
22 11 16 00-0293	EA		1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	55.39	23.57
			<i>For Work In Restricted Working Space, Add</i>	10.59	
22 11 16 00-0294	EA		2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	65.64	23.67
			<i>For Work In Restricted Working Space, Add</i>	10.65	
22 11 16 00-0295	EA		2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	64.95	24.63
			<i>For Work In Restricted Working Space, Add</i>	11.07	
22 11 16 00-0296	EA		2" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	64.95	25.60
			<i>For Work In Restricted Working Space, Add</i>	11.53	
22 11 16 00-0297	EA		2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	66.89	26.92
			<i>For Work In Restricted Working Space, Add</i>	12.11	
22 11 16 00-0298	EA		2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	65.74	28.32
			<i>For Work In Restricted Working Space, Add</i>	12.74	
22 11 16 00-0299	EA		2-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	91.93	32.19
			<i>For Work In Restricted Working Space, Add</i>	14.50	
22 11 16 00-0300	EA		2-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	93.46	33.24
			<i>For Work In Restricted Working Space, Add</i>	14.96	
22 11 16 00-0301	EA		2-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	95.39	34.48
			<i>For Work In Restricted Working Space, Add</i>	15.53	
22 11 16 00-0302	EA		2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	96.71	35.97
			<i>For Work In Restricted Working Space, Add</i>	16.17	
22 11 16 00-0303	EA		2-1/2" x 2", 150 LB, Galvanized Malleable Iron Bushing.....	96.89	39.32
			<i>For Work In Restricted Working Space, Add</i>	17.69	
22 11 16 00-0304	EA		3" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	117.00	39.58
			<i>For Work In Restricted Working Space, Add</i>	17.83	
22 11 16 00-0305	EA		3" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	118.52	40.64
			<i>For Work In Restricted Working Space, Add</i>	18.29	
22 11 16 00-0306	EA		3" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	120.46	41.96
			<i>For Work In Restricted Working Space, Add</i>	18.87	
22 11 16 00-0307	EA		3" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	121.45	43.37
			<i>For Work In Restricted Working Space, Add</i>	19.50	
22 11 16 00-0308	EA		3" x 2", 150 LB, Galvanized Malleable Iron Bushing.....	121.25	46.71
			<i>For Work In Restricted Working Space, Add</i>	21.02	
22 11 16 00-0309	EA		3" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	135.62	54.35
			<i>For Work In Restricted Working Space, Add</i>	24.44	
22 11 16 00-0310	EA		4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	181.46	40.48
			<i>For Work In Restricted Working Space, Add</i>	18.24	
22 11 16 00-0311	EA		4" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	182.90	41.48
			<i>For Work In Restricted Working Space, Add</i>	18.67	
22 11 16 00-0312	EA		4" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	184.72	42.73
			<i>For Work In Restricted Working Space, Add</i>	19.22	
22 11 16 00-0313	EA		4" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	186.72	44.06
			<i>For Work In Restricted Working Space, Add</i>	19.82	
22 11 16 00-0314	EA		4" x 2", 150 LB, Galvanized Malleable Iron Bushing.....	177.29	47.21
			<i>For Work In Restricted Working Space, Add</i>	21.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0315	EA		4" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	202.25 24.47	54.43
22 11 16 00-0316	EA		4" x 3", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	204.76 27.62	61.40
22 11 16 00-0317 Galvanized Malleable Iron Floor Flange <small>(22 11 16 00-0013)</small>					
22 11 16 00-0318	EA		1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	64.81	32.14
22 11 16 00-0319	EA		3/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	70.67	35.19
22 11 16 00-0320	EA		1", 150 LB, Galvanized Malleable Iron Floor Flange.....	82.89	39.75
22 11 16 00-0321	EA		1-1/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	86.58	41.16
22 11 16 00-0322	EA		1-1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	94.26	44.78
22 11 16 00-0323	EA		2", 150 LB, Galvanized Malleable Iron Floor Flange.....	105.45	46.71
22 11 16 00-0324 Galvanized Cast Iron Flanges <small>(22 11 16 00-0013)</small>					
22 11 16 00-0325	EA		3/4", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	192.36 15.83	35.19
22 11 16 00-0326	EA		1", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	167.72 17.89	39.75
22 11 16 00-0327	EA		1-1/4", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	118.85 18.52	41.16
22 11 16 00-0328	EA		1-1/2", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	194.09 20.14	44.78
22 11 16 00-0329	EA		2", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	181.71 21.02	46.71
22 11 16 00-0330	EA		2-1/2", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	211.65 24.32	54.09
22 11 16 00-0331	EA		3", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	455.54 30.86	68.61
22 11 16 00-0332	EA		4", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	348.88 39.82	88.53
22 11 16 00-0333	EA		5", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	497.35 47.40	105.37
22 11 16 00-0334	EA		6", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	544.22 54.45	121.05
22 11 16 00-0335 Cut And Thread Existing In-Place Galvanized Steel Pipe <small>(22 11 16 00-0013)</small>					
Note: For use when connecting pipe to an existing in-place system.					
22 11 16 00-0336	EA		1/2", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	28.66 8.60	
22 11 16 00-0337	EA		3/4", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	31.53 9.46	
22 11 16 00-0338	EA		1", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	34.40 10.32	
22 11 16 00-0339	EA		1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	37.26 11.18	
22 11 16 00-0340	EA		1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	39.17 11.75	
22 11 16 00-0341	EA		2", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	41.09 12.33	
22 11 16 00-0342	EA		2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	43.01 12.90	
22 11 16 00-0343	EA		3", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	44.91 13.47	
22 11 16 00-0344	EA		4", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	46.82 14.05	
22 11 16 00-0345 Copper Pipe And Fittings <small>(22 11 16)</small>					
Note: Excludes hangers. See CSI section 22 11 16 00-0876 for pipe with fittings assembly.					
22 11 16 00-0346 Copper Tube/Pipe <small>(22 11 16 00-0345)</small>					
Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).					
22 11 16 00-0347 Hard Drawn Type L Copper Tube/Pipe <small>(22 11 16 00-0346)</small>					
22 11 16 00-0348	LF		1/4" Hard Drawn Type L Copper Tube/Pipe..... <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Medical/Oxygen Service Tubing, Add</i>	3.97 0.08 -0.15 0.97 0.06	2.15
22 11 16 00-0349	LF		3/8" Hard Drawn Type L Copper Tube/Pipe..... <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Medical/Oxygen Service Tubing, Add</i>	4.45 0.11 -0.22 1.01 0.09	2.23
22 11 16 00-0350	LF		1/2" Hard Drawn Type L Copper Tube/Pipe..... <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Medical/Oxygen Service Tubing, Add</i>	4.80 0.13 -0.26 1.05 0.10	2.33

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0351 LF 3/4" Hard Drawn Type L Copper Tube/Pipe.....	5.82	2.47
For <20, Add	0.21	
For >150, Deduct	-0.42	
For Work In Restricted Working Space, Add	1.11	
For Medical/Oxygen Service Tubing, Add	0.17	
22 11 16 00-0352 LF 1" Hard Drawn Type L Copper Tube/Pipe.....	7.23	2.78
For <20, Add	0.31	
For >150, Deduct	-0.61	
For Work In Restricted Working Space, Add	1.25	
For Medical/Oxygen Service Tubing, Add	0.24	
22 11 16 00-0353 LF 1-1/4" Hard Drawn Type L Copper Tube/Pipe	10.41	4.13
For <20, Add	0.42	
For >150, Deduct	-0.84	
For Work In Restricted Working Space, Add	1.86	
For Medical/Oxygen Service Tubing, Add	0.34	
22 11 16 00-0354 LF 1-1/2" Hard Drawn Type L Copper Tube/Pipe	12.34	4.62
For <20, Add	0.54	
For >150, Deduct	-1.08	
For Work In Restricted Working Space, Add	2.08	
For Medical/Oxygen Service Tubing, Add	0.43	
22 11 16 00-0355 LF 2" Hard Drawn Type L Copper Tube/Pipe.....	17.10	5.69
For <20, Add	0.86	
For >150, Deduct	-1.71	
For Work In Restricted Working Space, Add	2.56	
For Medical/Oxygen Service Tubing, Add	0.69	
22 11 16 00-0356 LF 2-1/2" Hard Drawn Type L Copper Tube/Pipe	32.48	6.69
For <20, Add	1.24	
For >150, Deduct	-2.48	
For Work In Restricted Working Space, Add	6.03	
For Medical/Oxygen Service Tubing, Add	0.99	
22 11 16 00-0357 LF 3" Hard Drawn Type L Copper Tube/Pipe.....	40.16	7.89
For <20, Add	1.65	
For >150, Deduct	-3.30	
For Work In Restricted Working Space, Add	7.10	
For Medical/Oxygen Service Tubing, Add	1.32	
22 11 16 00-0358 LF 4" Hard Drawn Type L Copper Tube/Pipe.....	56.11	8.90
For <20, Add	2.94	
For >150, Deduct	-5.89	
For Work In Restricted Working Space, Add	8.00	
For Medical/Oxygen Service Tubing, Add	2.35	
22 11 16 00-0359 LF 5" Hard Drawn Type L Copper Tube/Pipe.....	82.64	10.22
For <20, Add	5.20	
For >150, Deduct	-10.40	
For Work In Restricted Working Space, Add	9.20	
For Medical/Oxygen Service Tubing, Add	4.16	
22 11 16 00-0360 LF 6" Hard Drawn Type L Copper Tube/Pipe.....	115.89	15.84
For <20, Add	6.84	
For >150, Deduct	-13.68	
For Work In Restricted Working Space, Add	14.25	
For Medical/Oxygen Service Tubing, Add	5.47	
22 11 16 00-0361 LF 8" Hard Drawn Type L Copper Tube/Pipe.....	181.68	17.61
For <20, Add	12.89	
For >150, Deduct	-25.78	
For Work In Restricted Working Space, Add	15.84	
For Medical/Oxygen Service Tubing, Add	10.31	
22 11 16 00-0362 Hard Drawn Type K Copper Tube/Pipe (22 11 16 00-0346)		
22 11 16 00-0363 LF 1/4" Hard Drawn Type K Copper Tube/Pipe	4.30	2.31
For <20, Add	0.08	
For >150, Deduct	-0.17	
For Work In Restricted Working Space, Add	1.04	
For Medical/Oxygen Service Tubing, Add	0.07	
22 11 16 00-0364 LF 3/8" Hard Drawn Type K Copper Tube/Pipe	5.46	2.40
For <20, Add	0.15	
For >150, Deduct	-0.30	
For Work In Restricted Working Space, Add	1.19	
For Medical/Oxygen Service Tubing, Add	0.12	
22 11 16 00-0365 LF 1/2" Hard Drawn Type K Copper Tube/Pipe	5.63	2.50
For <20, Add	0.18	
For >150, Deduct	-0.35	
For Work In Restricted Working Space, Add	1.16	
For Medical/Oxygen Service Tubing, Add	0.14	
22 11 16 00-0366 LF 3/4" Hard Drawn Type K Copper Tube/Pipe	7.66	2.66
For <20, Add	0.32	
For >150, Deduct	-0.64	
For Work In Restricted Working Space, Add	1.34	
For Medical/Oxygen Service Tubing, Add	0.25	
22 11 16 00-0367 LF 1" Hard Drawn Type K Copper Tube/Pipe	8.99	2.99
For <20, Add	0.42	
For >150, Deduct	-0.85	
For Work In Restricted Working Space, Add	1.43	
For Medical/Oxygen Service Tubing, Add	0.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0368 LF 1-1/4" Hard Drawn Type K Copper Tube/Pipe.....	12.02	4.45
For <20, Add	0.53	
For >150, Deduct	-1.05	
For Work In Restricted Working Space, Add	2.03	
For Medical/Oxygen Service Tubing, Add	0.42	
22 11 16 00-0369 LF 1-1/2" Hard Drawn Type K Copper Tube/Pipe.....	14.33	4.96
For <20, Add	0.68	
For >150, Deduct	-1.35	
For Work In Restricted Working Space, Add	2.27	
For Medical/Oxygen Service Tubing, Add	0.54	
22 11 16 00-0370 LF 2" Hard Drawn Type K Copper Tube/Pipe.....	19.67	6.13
For <20, Add	1.04	
For >150, Deduct	-2.08	
For Work In Restricted Working Space, Add	2.79	
For Medical/Oxygen Service Tubing, Add	0.83	
22 11 16 00-0371 LF 2-1/2" Hard Drawn Type K Copper Tube/Pipe.....	35.65	7.19
For <20, Add	1.55	
For >150, Deduct	-3.09	
For Work In Restricted Working Space, Add	6.06	
For Medical/Oxygen Service Tubing, Add	1.24	
22 11 16 00-0372 LF 3" Hard Drawn Type K Copper Tube/Pipe.....	47.16	8.48
For <20, Add	2.11	
For >150, Deduct	-4.23	
For Work In Restricted Working Space, Add	7.81	
For Medical/Oxygen Service Tubing, Add	1.69	
22 11 16 00-0373 LF 4" Hard Drawn Type K Copper Tube/Pipe.....	67.16	9.57
For <20, Add	3.77	
For >150, Deduct	-7.53	
For Work In Restricted Working Space, Add	8.85	
For Medical/Oxygen Service Tubing, Add	3.01	
22 11 16 00-0374 LF 5" Hard Drawn Type K Copper Tube/Pipe.....	103.83	10.99
For <20, Add	6.90	
For >150, Deduct	-13.81	
For Work In Restricted Working Space, Add	10.44	
For Medical/Oxygen Service Tubing, Add	5.52	
22 11 16 00-0375 LF 6" Hard Drawn Type K Copper Tube/Pipe.....	155.15	17.02
For <20, Add	9.90	
For >150, Deduct	-19.81	
For Work In Restricted Working Space, Add	16.83	
For Medical/Oxygen Service Tubing, Add	7.92	
22 11 16 00-0376 LF 8" Hard Drawn Type K Copper Tube/Pipe.....	247.29	18.93
For <20, Add	18.55	
For >150, Deduct	-37.09	
For Work In Restricted Working Space, Add	18.55	
For Medical/Oxygen Service Tubing, Add	14.84	
22 11 16 00-0377 Hard Drawn Type M Copper Tube/Pipe (22 11 16 00-0346)		
22 11 16 00-0378 LF 3/8" Hard Drawn Type M Copper Tube/Pipe.....	3.76	2.01
For <20, Add	0.09	
For >150, Deduct	-0.17	
For Work In Restricted Working Space, Add	0.87	
22 11 16 00-0379 LF 1/2" Hard Drawn Type M Copper Tube/Pipe.....	3.97	2.10
For <20, Add	0.10	
For >150, Deduct	-0.19	
For Work In Restricted Working Space, Add	0.90	
22 11 16 00-0380 LF 3/4" Hard Drawn Type M Copper Tube/Pipe.....	4.75	2.22
For <20, Add	0.16	
For >150, Deduct	-0.31	
For Work In Restricted Working Space, Add	0.96	
22 11 16 00-0381 LF 1" Hard Drawn Type M Copper Tube/Pipe.....	5.95	2.50
For <20, Add	0.24	
For >150, Deduct	-0.48	
For Work In Restricted Working Space, Add	1.07	
22 11 16 00-0382 LF 1-1/4" Hard Drawn Type M Copper Tube/Pipe.....	8.96	3.73
For <20, Add	0.35	
For >150, Deduct	-0.69	
For Work In Restricted Working Space, Add	1.65	
22 11 16 00-0383 LF 1-1/2" Hard Drawn Type M Copper Tube/Pipe.....	11.10	4.15
For <20, Add	0.48	
For >150, Deduct	-0.96	
For Work In Restricted Working Space, Add	1.89	
22 11 16 00-0384 LF 2" Hard Drawn Type M Copper Tube/Pipe.....	15.36	5.12
For <20, Add	0.75	
For >150, Deduct	-1.51	
For Work In Restricted Working Space, Add	2.35	
22 11 16 00-0385 LF 2-1/2" Hard Drawn Type M Copper Tube/Pipe.....	29.94	6.03
For <20, Add	1.09	
For >150, Deduct	-2.19	
For Work In Restricted Working Space, Add	5.70	
22 11 16 00-0386 LF 3" Hard Drawn Type M Copper Tube/Pipe.....	35.89	7.09
For <20, Add	1.46	
For >150, Deduct	-2.91	
For Work In Restricted Working Space, Add	6.40	

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22 10	Plumbing Piping
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0387	LF		4" Hard Drawn Type M Copper Tube/Pipe.....	52.14	8.01
			<i>For <20, Add</i>	2.72	
			<i>For >150, Deduct</i>	-5.45	
			<i>For Work In Restricted Working Space, Add</i>	7.47	
22 11 16 00-0388	LF		5" Hard Drawn Type M Copper Tube/Pipe.....	81.64	9.20
			<i>For <20, Add</i>	5.29	
			<i>For >150, Deduct</i>	-10.58	
			<i>For Work In Restricted Working Space, Add</i>	8.63	
22 11 16 00-0389	LF		6" Hard Drawn Type M Copper Tube/Pipe.....	115.17	14.26
			<i>For <20, Add</i>	7.07	
			<i>For >150, Deduct</i>	-14.13	
			<i>For Work In Restricted Working Space, Add</i>	13.35	
22 11 16 00-0390	LF		8" Hard Drawn Type M Copper Tube/Pipe.....	182.87	15.85
			<i>For <20, Add</i>	13.39	
			<i>For >150, Deduct</i>	-26.78	
			<i>For Work In Restricted Working Space, Add</i>	14.69	
22 11 16 00-0391			Soft Drawn Type L Copper Tube (22 11 16 00-0346)		
22 11 16 00-0392	LF		1/4" Soft Drawn Type L Copper Tube	4.18	2.15
			<i>For <20, Add</i>	0.10	
			<i>For >150, Deduct</i>	-0.19	
			<i>For Work In Restricted Working Space, Add</i>	0.97	
22 11 16 00-0393	LF		3/8" Soft Drawn Type L Copper Tube	4.85	2.23
			<i>For <20, Add</i>	0.15	
			<i>For >150, Deduct</i>	-0.30	
			<i>For Work In Restricted Working Space, Add</i>	1.01	
22 11 16 00-0394	LF		1/2" Soft Drawn Type L Copper Tube	5.50	2.33
			<i>For <20, Add</i>	0.20	
			<i>For >150, Deduct</i>	-0.40	
			<i>For Work In Restricted Working Space, Add</i>	1.05	
22 11 16 00-0395	LF		5/8" Soft Drawn Type L Copper Tube	6.18	2.40
			<i>For <20, Add</i>	0.26	
			<i>For >150, Deduct</i>	-0.51	
			<i>For Work In Restricted Working Space, Add</i>	1.08	
22 11 16 00-0396	LF		3/4" Soft Drawn Type L Copper Tube	6.78	2.47
			<i>For <20, Add</i>	0.31	
			<i>For >150, Deduct</i>	-0.61	
			<i>For Work In Restricted Working Space, Add</i>	1.11	
22 11 16 00-0397	LF		1" Soft Drawn Type L Copper Tube	8.42	2.78
			<i>For <20, Add</i>	0.43	
			<i>For >150, Deduct</i>	-0.85	
			<i>For Work In Restricted Working Space, Add</i>	1.25	
22 11 16 00-0398	LF		1-1/4" Soft Drawn Type L Copper Tube	11.79	4.13
			<i>For <20, Add</i>	0.56	
			<i>For >150, Deduct</i>	-1.12	
			<i>For Work In Restricted Working Space, Add</i>	1.86	
22 11 16 00-0399	LF		1-1/2" Soft Drawn Type L Copper Tube	14.50	4.62
			<i>For <20, Add</i>	0.76	
			<i>For >150, Deduct</i>	-1.52	
			<i>For Work In Restricted Working Space, Add</i>	2.08	
22 11 16 00-0400	LF		2" Soft Drawn Type L Copper Tube	20.58	5.69
			<i>For <20, Add</i>	1.21	
			<i>For >150, Deduct</i>	-2.41	
			<i>For Work In Restricted Working Space, Add</i>	2.56	
22 11 16 00-0401			Soft Drawn Type K Copper Tube (22 11 16 00-0346)		
22 11 16 00-0402	LF		1/4" Soft Drawn Type K Copper Tube	4.28	2.15
			<i>For <20, Add</i>	0.11	
			<i>For >150, Deduct</i>	-0.21	
			<i>For Work In Restricted Working Space, Add</i>	0.97	
22 11 16 00-0403	LF		3/8" Soft Drawn Type K Copper Tube	5.16	2.23
			<i>For <20, Add</i>	0.18	
			<i>For >150, Deduct</i>	-0.36	
			<i>For Work In Restricted Working Space, Add</i>	1.01	
22 11 16 00-0404	LF		1/2" Soft Drawn Type K Copper Tube	5.76	2.33
			<i>For <20, Add</i>	0.23	
			<i>For >150, Deduct</i>	-0.45	
			<i>For Work In Restricted Working Space, Add</i>	1.05	
22 11 16 00-0405	LF		5/8" Soft Drawn Type K Copper Tube	6.31	2.40
			<i>For <20, Add</i>	0.27	
			<i>For >150, Deduct</i>	-0.54	
			<i>For Work In Restricted Working Space, Add</i>	1.08	
22 11 16 00-0406	LF		3/4" Soft Drawn Type K Copper Tube	7.89	2.47
			<i>For <20, Add</i>	0.42	
			<i>For >150, Deduct</i>	-0.84	
			<i>For Work In Restricted Working Space, Add</i>	1.11	
22 11 16 00-0407	LF		1" Soft Drawn Type K Copper Tube	9.72	2.78
			<i>For <20, Add</i>	0.56	
			<i>For >150, Deduct</i>	-1.11	
			<i>For Work In Restricted Working Space, Add</i>	1.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0408	LF		1-1/4" Soft Drawn Type K Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	12.75 0.66 -1.31 1.86	4.13
22 11 16 00-0409	LF		1-1/2" Soft Drawn Type K Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	16.02 0.91 -1.82 2.08	4.62
22 11 16 00-0410	LF		2" Soft Drawn Type K Copper Tube..... <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.67 1.41 -2.83 2.56	5.69
22 11 16 00-0411	LF		2-1/2" Soft Drawn Type K Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	31.45 2.12 -4.24 3.07	6.83
22 11 16 00-0412	LF		3" Soft Drawn Type K Copper Tube..... <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	41.58 2.95 -5.90 3.62	8.06
22 11 16 00-0413			Copper And Brass Fittings (22 11 16 00-0345) Note: All fittings are based on 95/5 solder.		
22 11 16 00-0414			90 Degree Copper Elbows (22 11 16 00-0413)		
22 11 16 00-0415	EA		1/4" 90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	21.92 -2.05 2.87 1.12 5.73 3.01	12.74
22 11 16 00-0416	EA		3/8" 90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	25.90 -2.44 3.44 1.19 6.88 3.59	15.29
22 11 16 00-0417	EA		1/2" 90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	32.49 -3.20 4.73 0.38 9.46 4.78	21.02
22 11 16 00-0418	EA		3/4" 90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	41.34 -4.03 5.88 0.87 11.75 5.98	26.18
22 11 16 00-0419	EA		1" 90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	52.12 -4.95 7.02 2.12 14.05 7.29	31.25
22 11 16 00-0420	EA		1-1/4" 90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	58.58 -5.46 7.60 3.17 15.20 7.99	33.82
22 11 16 00-0421	EA		1-1/2" 90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	67.83 -6.16 8.31 4.96 16.63 8.93	36.98
22 11 16 00-0422	EA		2" 90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	84.72 -7.34 9.32 9.04 18.64 10.45	41.47
22 11 16 00-0423	EA		2-1/2" 90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	107.65 -8.55 9.50 19.00 11.72	42.22
22 11 16 00-0424	EA		3" 90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	138.14 -10.69 11.35 22.69 14.47	50.49



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0425 EA 4" 90 Degree Copper Elbow	258.97	71.60
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-18.31	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.10	
For Work In Restricted Working Space, Add	32.19	
For Silver Solder Instead Of 95/5 Solder, Add	23.68	
22 11 16 00-0426 EA 5" 90 Degree Copper Elbow	782.22	97.98
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-46.46	
For Brazed Fittings Instead Of 95/5 Solder, Add	22.03	
For Work In Restricted Working Space, Add	44.07	
For Silver Solder Instead Of 95/5 Solder, Add	53.80	
22 11 16 00-0427 EA 6" 90 Degree Copper Elbow	1,060.67	142.58
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-63.72	
For Brazed Fittings Instead Of 95/5 Solder, Add	32.06	
For Work In Restricted Working Space, Add	64.12	
For Silver Solder Instead Of 95/5 Solder, Add	74.41	
22 11 16 00-0428 EA 8" 90 Degree Copper Elbow	3,418.24	190.08
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-185.16	
For Brazed Fittings Instead Of 95/5 Solder, Add	42.75	
For Work In Restricted Working Space, Add	85.49	
For Silver Solder Instead Of 95/5 Solder, Add	199.41	
22 11 16 00-0429 90 Degree Brass Elbows (22 11 16 00-0413)		
22 11 16 00-0430 EA 1/2" Drop Ear 90 Degree Brass Elbow	37.58	21.02
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.46	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.73	
For Work In Restricted Working Space, Add	9.46	
For Silver Solder Instead Of 95/5 Solder, Add	5.03	
22 11 16 00-0431 EA 3/4" Drop Ear 90 Degree Brass Elbow	56.82	26.18
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.80	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.88	
For Work In Restricted Working Space, Add	11.75	
For Silver Solder Instead Of 95/5 Solder, Add	6.76	
22 11 16 00-0432 EA 1/2" Flanged Sink 90 Degree Brass Elbow	42.56	21.02
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.70	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.73	
For Work In Restricted Working Space, Add	9.46	
For Silver Solder Instead Of 95/5 Solder, Add	5.28	
22 11 16 00-0433 EA 3/8" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	31.98	15.29
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.75	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.44	
For Work In Restricted Working Space, Add	6.88	
For Silver Solder Instead Of 95/5 Solder, Add	3.89	
22 11 16 00-0434 EA 1/2" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	38.01	21.02
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.48	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.73	
For Work In Restricted Working Space, Add	9.46	
For Silver Solder Instead Of 95/5 Solder, Add	5.05	
22 11 16 00-0435 EA 3/4" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	50.58	26.18
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.49	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.88	
For Work In Restricted Working Space, Add	11.75	
For Silver Solder Instead Of 95/5 Solder, Add	6.45	
22 11 16 00-0436 EA 1" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	83.24	31.25
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.50	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.02	
For Work In Restricted Working Space, Add	14.05	
For Silver Solder Instead Of 95/5 Solder, Add	8.84	
22 11 16 00-0437 Reducing 90 Degree Copper Elbows (22 11 16 00-0413)		
22 11 16 00-0438 EA 1/2" Reducing 90 Degree Copper Elbow	39.35	21.02
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.54	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.73	
For Work In Restricted Working Space, Add	9.46	
For Silver Solder Instead Of 95/5 Solder, Add	5.12	
22 11 16 00-0439 EA 3/4" Reducing 90 Degree Copper Elbow	44.71	26.18
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.19	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.88	
For Work In Restricted Working Space, Add	11.75	
For Silver Solder Instead Of 95/5 Solder, Add	6.15	
22 11 16 00-0440 EA 1" Reducing 90 Degree Copper Elbow	57.00	31.25
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.19	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.02	
For Work In Restricted Working Space, Add	14.05	
For Silver Solder Instead Of 95/5 Solder, Add	7.53	
22 11 16 00-0441 EA 1-1/4" Reducing 90 Degree Copper Elbow	76.57	33.82
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.36	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.60	
For Work In Restricted Working Space, Add	15.20	
For Silver Solder Instead Of 95/5 Solder, Add	8.89	
22 11 16 00-0442 EA 1-1/2" Reducing 90 Degree Copper Elbow	89.49	36.98
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.25	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.31	
For Work In Restricted Working Space, Add	16.63	
For Silver Solder Instead Of 95/5 Solder, Add	10.02	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0443	EA		2" Reducing 90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	107.97 -8.50 9.32 18.64 11.61	41.47
	22 11 16 00-0444			45 Degree Copper Elbows <small>(22 11 16 00-0413)</small>		
	22 11 16 00-0445	EA		1/4" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	24.36 -2.17 2.87 2.10 5.73 3.13	12.74
	22 11 16 00-0446	EA		3/8" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	27.43 -2.52 3.44 1.80 6.88 3.66	15.29
	22 11 16 00-0447	EA		1/2" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	33.30 -3.24 4.73 0.71 9.46 4.82	21.02
	22 11 16 00-0448	EA		3/4" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	42.20 -4.07 5.88 1.21 11.75 6.03	26.18
	22 11 16 00-0449	EA		1" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	54.37 -5.06 7.02 3.02 14.05 7.40	31.25
	22 11 16 00-0450	EA		1-1/4" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	60.88 -5.58 7.60 4.09 15.20 8.11	33.82
	22 11 16 00-0451	EA		1-1/2" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	67.99 -6.17 8.31 5.02 16.63 8.94	36.98
	22 11 16 00-0452	EA		2" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	83.06 -7.26 9.32 18.64 10.37	41.47
	22 11 16 00-0453	EA		2-1/2" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	107.12 -8.52 9.50 19.00 11.69	42.22
	22 11 16 00-0454	EA		3" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	140.61 -10.81 11.35 22.69 14.59	50.49
	22 11 16 00-0455	EA		4" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	245.84 -17.66 16.10 32.19 23.02	71.60
	22 11 16 00-0456	EA		5" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	683.40 -41.51 22.03 44.07 48.86	97.98
	22 11 16 00-0457	EA		6" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1,059.23 -63.65 32.06 64.12 74.33	142.58
	22 11 16 00-0458	EA		8" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3,157.94 -172.15 42.75 85.49 186.40	190.08



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0459			Straight Copper And Brass Tees (22 11 16 00-0413)		
22 11 16 00-0460	EA		1/4" Straight Copper Tee .....34.55	34.55	19.11
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.16	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.30	
			For Work In Restricted Working Space, Add	8.60	
			For Silver Solder Instead Of 95/5 Solder, Add	4.59	
22 11 16 00-0461	EA		3/8" Straight Copper Tee .....39.14	39.14	22.93
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.68	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.16	
			For Work In Restricted Working Space, Add	10.32	
			For Silver Solder Instead Of 95/5 Solder, Add	5.40	
22 11 16 00-0462	EA		1/2" Straight Copper Tee .....49.43	49.43	31.91
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.86	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.17	
			For Work In Restricted Working Space, Add	14.33	
			For Silver Solder Instead Of 95/5 Solder, Add	7.25	
22 11 16 00-0463	EA		3/4" Straight Copper Tee .....63.21	63.21	39.56
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.12	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.89	
			For Work In Restricted Working Space, Add	17.78	
			For Silver Solder Instead Of 95/5 Solder, Add	9.09	
22 11 16 00-0464	EA		1" Straight Copper Tee .....82.64	82.64	47.20
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.67	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.61	
			For Work In Restricted Working Space, Add	21.22	
			For Silver Solder Instead Of 95/5 Solder, Add	11.20	
22 11 16 00-0465	EA		1-1/4" Straight Copper Tee .....93.05	93.05	51.03
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.48	
			For Brazed Fittings Instead Of 95/5 Solder, Add	11.47	
			For Work In Restricted Working Space, Add	22.94	
			For Silver Solder Instead Of 95/5 Solder, Add	12.30	
22 11 16 00-0466	EA		1-1/2" Straight Copper Tee .....108.26	108.26	55.43
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.57	
			For Brazed Fittings Instead Of 95/5 Solder, Add	12.47	
			For Work In Restricted Working Space, Add	24.94	
			For Silver Solder Instead Of 95/5 Solder, Add	13.73	
22 11 16 00-0467	EA		2" Straight Copper Tee .....133.58	133.58	62.50
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.36	
			For Brazed Fittings Instead Of 95/5 Solder, Add	14.05	
			For Work In Restricted Working Space, Add	28.10	
			For Silver Solder Instead Of 95/5 Solder, Add	16.04	
22 11 16 00-0468	EA		2-1/2" Straight Copper Tee .....173.99	173.99	63.33
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.45	
			For Brazed Fittings Instead Of 95/5 Solder, Add	14.25	
			For Work In Restricted Working Space, Add	28.50	
			For Silver Solder Instead Of 95/5 Solder, Add	18.20	
22 11 16 00-0469	EA		3" Straight Copper Tee .....235.04	235.04	76.26
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-17.47	
			For Brazed Fittings Instead Of 95/5 Solder, Add	17.15	
			For Work In Restricted Working Space, Add	34.30	
			For Silver Solder Instead Of 95/5 Solder, Add	23.19	
22 11 16 00-0470	EA		4" Straight Copper Tee .....452.20	452.20	106.78
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-30.61	
			For Brazed Fittings Instead Of 95/5 Solder, Add	24.01	
			For Work In Restricted Working Space, Add	48.02	
			For Silver Solder Instead Of 95/5 Solder, Add	38.62	
22 11 16 00-0471	EA		5" Straight Copper Tee .....1,173.94	1,173.94	146.10
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-69.65	
			For Brazed Fittings Instead Of 95/5 Solder, Add	32.85	
			For Work In Restricted Working Space, Add	65.71	
			For Silver Solder Instead Of 95/5 Solder, Add	80.60	
22 11 16 00-0472	EA		6" Straight Copper Tee .....1,626.40	1,626.40	214.18
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-97.37	
			For Brazed Fittings Instead Of 95/5 Solder, Add	48.16	
			For Work In Restricted Working Space, Add	96.31	
			For Silver Solder Instead Of 95/5 Solder, Add	113.42	
22 11 16 00-0473	EA		8" Straight Copper Tee .....5,462.87	5,462.87	285.16
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-294.52	
			For Brazed Fittings Instead Of 95/5 Solder, Add	64.12	
			For Work In Restricted Working Space, Add	128.24	
			For Silver Solder Instead Of 95/5 Solder, Add	315.89	
22 11 16 00-0474	EA		1/2" Cast Bronze Drop Ear Tee .....57.97	57.97	31.91
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.29	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.17	
			For Work In Restricted Working Space, Add	14.33	
			For Silver Solder Instead Of 95/5 Solder, Add	7.68	
22 11 16 00-0475			Reducing Copper Tees (22 11 16 00-0413)		
22 11 16 00-0476	EA		3/8" Reducing Copper Tee .....39.95	39.95	20.36
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.53	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.59	
			For Work In Restricted Working Space, Add	9.17	
			For Silver Solder Instead Of 95/5 Solder, Add	5.06	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0477	EA			1/2" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	51.25 -4.71 6.45 12.90 6.86	28.66
22 11 16 00-0478	EA			3/4" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	59.63 -5.75 8.31 16.63 8.52	36.98
22 11 16 00-0479	EA			1" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	80.25 -7.36 10.03 20.07 10.70	44.63
22 11 16 00-0480	EA			1-1/4" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	92.90 -8.28 10.89 21.79 11.91	48.45
22 11 16 00-0481	EA			1-1/2" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	107.97 -9.36 11.90 23.80 13.33	52.94
22 11 16 00-0482	EA			2" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	130.30 -10.96 13.33 26.66 15.40	59.25
22 11 16 00-0483	EA			2-1/2" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	178.01 -13.47 13.72 27.44 18.05	61.05
22 11 16 00-0484	EA			3" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	247.67 -17.66 15.83 31.67 22.94	70.36
22 11 16 00-0485	EA			4" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	429.37 -27.98 19.53 39.05 34.49	86.81
22 11 16 00-0486				Copper Couplings (22 11 16 00-0413)		
22 11 16 00-0487	EA			1/4" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	19.67 -1.94 2.87 5.73 2.89	12.74
22 11 16 00-0488	EA			3/8" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	23.68 -2.33 3.44 6.88 3.48	15.29
22 11 16 00-0489	EA			1/2" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	32.15 -3.18 4.73 9.46 4.76	21.02
22 11 16 00-0490	EA			3/4" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	40.43 -3.98 5.88 11.75 5.94	26.18
22 11 16 00-0491	EA			1" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	49.31 -4.81 7.02 14.05 7.15	31.25
22 11 16 00-0492	EA			1-1/4" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	55.04 -5.28 7.60 15.20 7.82	33.82
22 11 16 00-0493	EA			1-1/2" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	61.24 -5.83 8.31 16.63 8.61	36.98

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0494 EA 2" Copper Coupling.....	71.79	41.09
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.70	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.32	
For Work In Restricted Working Space, Add	18.64	
For Silver Solder Instead Of 95/5 Solder, Add	9.80	
22 11 16 00-0495 EA 2-1/2" Copper Coupling.....	79.68	39.94
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.97	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.97	
For Work In Restricted Working Space, Add	17.94	
For Silver Solder Instead Of 95/5 Solder, Add	9.97	
22 11 16 00-0496 EA 3" Copper Coupling.....	99.17	48.38
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.56	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.82	
For Work In Restricted Working Space, Add	21.64	
For Silver Solder Instead Of 95/5 Solder, Add	12.17	
22 11 16 00-0497 EA 4" Copper Coupling.....	156.34	65.09
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.65	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.51	
For Work In Restricted Working Space, Add	29.03	
For Silver Solder Instead Of 95/5 Solder, Add	17.49	
22 11 16 00-0498 EA 5" Copper Coupling.....	256.12	118.74
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-19.40	
For Brazed Fittings Instead Of 95/5 Solder, Add	19.79	
For Work In Restricted Working Space, Add	39.58	
For Silver Solder Instead Of 95/5 Solder, Add	26.00	
22 11 16 00-0499 EA 6" Copper Coupling.....	398.73	129.03
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-29.61	
For Brazed Fittings Instead Of 95/5 Solder, Add	29.03	
For Work In Restricted Working Space, Add	58.05	
For Silver Solder Instead Of 95/5 Solder, Add	39.29	
22 11 16 00-0500 EA 8" Copper Coupling.....	922.06	171.08
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-58.95	
For Brazed Fittings Instead Of 95/5 Solder, Add	38.53	
For Work In Restricted Working Space, Add	77.05	
For Silver Solder Instead Of 95/5 Solder, Add	71.79	
22 11 16 00-0501 Reducing Copper Couplings (22 11 16 00-0413)		
22 11 16 00-0502 EA 3/8" Reducing Copper Coupling.....	20.34	12.71
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.97	
For Brazed Fittings Instead Of 95/5 Solder, Add	2.87	
For Work In Restricted Working Space, Add	5.73	
For Silver Solder Instead Of 95/5 Solder, Add	2.93	
22 11 16 00-0503 EA 1/2" Reducing Copper Coupling.....	28.53	18.15
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.79	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.09	
For Work In Restricted Working Space, Add	8.17	
For Silver Solder Instead Of 95/5 Solder, Add	4.15	
22 11 16 00-0504 EA 3/4" Reducing Copper Coupling.....	37.57	23.61
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.65	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.30	
For Work In Restricted Working Space, Add	10.61	
For Silver Solder Instead Of 95/5 Solder, Add	5.41	
22 11 16 00-0505 EA 1" Reducing Copper Coupling.....	47.02	28.66
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.50	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.45	
For Work In Restricted Working Space, Add	12.90	
For Silver Solder Instead Of 95/5 Solder, Add	6.65	
22 11 16 00-0506 EA 1-1/4" Reducing Copper Coupling.....	54.34	32.49
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.15	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.31	
For Work In Restricted Working Space, Add	14.62	
For Silver Solder Instead Of 95/5 Solder, Add	7.59	
22 11 16 00-0507 EA 1-1/2" Reducing Copper Coupling.....	62.30	35.35
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.77	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.95	
For Work In Restricted Working Space, Add	15.91	
For Silver Solder Instead Of 95/5 Solder, Add	8.42	
22 11 16 00-0508 EA 2" Reducing Copper Coupling.....	73.10	39.17
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.59	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.82	
For Work In Restricted Working Space, Add	17.63	
For Silver Solder Instead Of 95/5 Solder, Add	9.53	
22 11 16 00-0509 EA 2-1/2" Reducing Copper Coupling.....	89.73	40.20
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.50	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.04	
For Work In Restricted Working Space, Add	18.08	
For Silver Solder Instead Of 95/5 Solder, Add	10.51	
22 11 16 00-0510 EA 3" Reducing Copper Coupling.....	105.94	46.62
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.77	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.42	
For Work In Restricted Working Space, Add	20.85	
For Silver Solder Instead Of 95/5 Solder, Add	12.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0511 EA 4" Reducing Copper Coupling	163.83	61.05
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.77	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.72	
For Work In Restricted Working Space, Add	27.44	
For Silver Solder Instead Of 95/5 Solder, Add	17.34	
22 11 16 00-0512 EA 5" Reducing Copper Coupling	410.49	85.05
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-26.90	
For Brazed Fittings Instead Of 95/5 Solder, Add	19.13	
For Work In Restricted Working Space, Add	38.26	
For Silver Solder Instead Of 95/5 Solder, Add	33.28	
22 11 16 00-0513 EA 6" Reducing Copper Coupling	609.68	114.34
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-39.06	
For Brazed Fittings Instead Of 95/5 Solder, Add	25.73	
For Work In Restricted Working Space, Add	51.45	
For Silver Solder Instead Of 95/5 Solder, Add	47.64	
22 11 16 00-0514 EA 8" Reducing Copper Coupling	1,178.68	166.61
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-71.42	
For Brazed Fittings Instead Of 95/5 Solder, Add	37.47	
For Work In Restricted Working Space, Add	74.94	
For Silver Solder Instead Of 95/5 Solder, Add	83.91	
 22 11 16 00-0515 Male Copper Adapters (22 11 16 00-0413)		
22 11 16 00-0516 EA 1/4" Male Copper Adapter	29.05	12.42
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.41	
For Brazed Fittings Instead Of 95/5 Solder, Add	2.87	
For Work In Restricted Working Space, Add	5.73	
For Silver Solder Instead Of 95/5 Solder, Add	3.36	
22 11 16 00-0517 EA 3/8" Male Copper Adapter	27.88	15.29
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.54	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.44	
For Work In Restricted Working Space, Add	6.88	
For Silver Solder Instead Of 95/5 Solder, Add	3.69	
22 11 16 00-0518 EA 1/2" Male Copper Adapter	30.67	19.11
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.97	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.30	
For Work In Restricted Working Space, Add	8.60	
For Silver Solder Instead Of 95/5 Solder, Add	4.40	
22 11 16 00-0519 EA 3/4" Male Copper Adapter	38.75	23.89
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.71	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.30	
For Work In Restricted Working Space, Add	10.61	
For Silver Solder Instead Of 95/5 Solder, Add	5.47	
22 11 16 00-0520 EA 1" Male Copper Adapter	49.74	27.71
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.54	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.16	
For Work In Restricted Working Space, Add	12.33	
For Silver Solder Instead Of 95/5 Solder, Add	6.60	
22 11 16 00-0521 EA 1-1/4" Male Copper Adapter	60.36	31.53
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.41	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.17	
For Work In Restricted Working Space, Add	14.33	
For Silver Solder Instead Of 95/5 Solder, Add	7.80	
22 11 16 00-0522 EA 1-1/2" Male Copper Adapter	69.20	36.31
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.18	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.17	
For Work In Restricted Working Space, Add	16.34	
For Silver Solder Instead Of 95/5 Solder, Add	8.91	
22 11 16 00-0523 EA 2" Male Copper Adapter	94.69	46.35
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.22	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.46	
For Work In Restricted Working Space, Add	20.93	
For Silver Solder Instead Of 95/5 Solder, Add	11.71	
22 11 16 00-0524 EA 2-1/2" Male Copper Adapter	169.13	60.21
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.95	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.47	
For Work In Restricted Working Space, Add	26.95	
For Silver Solder Instead Of 95/5 Solder, Add	17.44	
22 11 16 00-0525 EA 3" Male Copper Adapter	224.60	80.26
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-17.21	
For Brazed Fittings Instead Of 95/5 Solder, Add	17.94	
For Work In Restricted Working Space, Add	35.89	
For Silver Solder Instead Of 95/5 Solder, Add	23.19	
22 11 16 00-0526 EA 4" Male Copper Adapter	336.76	112.58
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-25.28	
For Brazed Fittings Instead Of 95/5 Solder, Add	25.33	
For Work In Restricted Working Space, Add	50.66	
For Silver Solder Instead Of 95/5 Solder, Add	33.73	
 22 11 16 00-0527 Female Copper Adapters (22 11 16 00-0413)		
22 11 16 00-0528 EA 1/4" Female Copper Adapter	25.46	12.42
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.23	
For Brazed Fittings Instead Of 95/5 Solder, Add	2.87	
For Work In Restricted Working Space, Add	5.73	
For Silver Solder Instead Of 95/5 Solder, Add	3.18	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0529	EA		3/8" Female Copper Adapter	29.57	15.29
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.63	
			For Brazed Fittings Instead Of 95/5 Solder, Add	3.44	
			For Work In Restricted Working Space, Add	6.88	
			For Silver Solder Instead Of 95/5 Solder, Add	3.77	
22 11 16 00-0530	EA		1/2" Female Copper Adapter	31.87	19.11
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.03	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.30	
			For Work In Restricted Working Space, Add	8.60	
			For Silver Solder Instead Of 95/5 Solder, Add	4.46	
22 11 16 00-0531	EA		3/4" Female Copper Adapter	39.74	23.89
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.75	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.30	
			For Work In Restricted Working Space, Add	10.61	
			For Silver Solder Instead Of 95/5 Solder, Add	5.52	
22 11 16 00-0532	EA		1" Female Copper Adapter	51.13	27.71
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.61	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.16	
			For Work In Restricted Working Space, Add	12.33	
			For Silver Solder Instead Of 95/5 Solder, Add	6.67	
22 11 16 00-0533	EA		1-1/4" Female Copper Adapter	62.50	31.53
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.51	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.17	
			For Work In Restricted Working Space, Add	14.33	
			For Silver Solder Instead Of 95/5 Solder, Add	7.90	
22 11 16 00-0534	EA		1-1/2" Female Copper Adapter	77.53	36.31
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.60	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.17	
			For Work In Restricted Working Space, Add	16.34	
			For Silver Solder Instead Of 95/5 Solder, Add	9.32	
22 11 16 00-0535	EA		2" Female Copper Adapter	101.04	46.35
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.54	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.46	
			For Work In Restricted Working Space, Add	20.93	
			For Silver Solder Instead Of 95/5 Solder, Add	12.03	
22 11 16 00-0536	EA		2-1/2" Female Copper Adapter	194.57	55.41
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.86	
			For Brazed Fittings Instead Of 95/5 Solder, Add	12.40	
			For Work In Restricted Working Space, Add	24.80	
			For Silver Solder Instead Of 95/5 Solder, Add	18.00	
22 11 16 00-0537	EA		3" Female Copper Adapter	308.10	80.26
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-21.39	
			For Brazed Fittings Instead Of 95/5 Solder, Add	17.94	
			For Work In Restricted Working Space, Add	35.89	
			For Silver Solder Instead Of 95/5 Solder, Add	27.37	
22 11 16 00-0538			Wrot Copper, Solder Union (22 11 16 00-0413)		
22 11 16 00-0539	EA		1/4" Wrot Copper, Solder Union	36.97	15.29
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.00	
			For Brazed Fittings Instead Of 95/5 Solder, Add	3.44	
			For Work In Restricted Working Space, Add	6.88	
			For Silver Solder Instead Of 95/5 Solder, Add	4.14	
22 11 16 00-0540	EA		3/8" Wrot Copper, Solder Union	42.18	18.45
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.49	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.16	
			For Work In Restricted Working Space, Add	8.31	
			For Silver Solder Instead Of 95/5 Solder, Add	4.88	
22 11 16 00-0541	EA		1/2" Wrot Copper, Solder Union	43.34	22.93
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.89	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.16	
			For Work In Restricted Working Space, Add	10.32	
			For Silver Solder Instead Of 95/5 Solder, Add	5.61	
22 11 16 00-0542	EA		3/4" Wrot Copper, Solder Union	50.17	26.18
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.47	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.88	
			For Work In Restricted Working Space, Add	11.75	
			For Silver Solder Instead Of 95/5 Solder, Add	6.43	
22 11 16 00-0543	EA		1" Wrot Copper, Solder Union	65.72	31.25
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.63	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.02	
			For Work In Restricted Working Space, Add	14.05	
			For Silver Solder Instead Of 95/5 Solder, Add	7.97	
22 11 16 00-0544	EA		1-1/4" Wrot Copper, Solder Union	78.98	34.40
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.53	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.74	
			For Work In Restricted Working Space, Add	15.48	
			For Silver Solder Instead Of 95/5 Solder, Add	9.11	
22 11 16 00-0545	EA		1-1/2" Wrot Copper, Solder Union	95.92	38.22
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.66	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.60	
			For Work In Restricted Working Space, Add	17.20	
			For Silver Solder Instead Of 95/5 Solder, Add	10.53	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0546	EA		2" Wrot Copper, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	134.57 -10.17 10.32 20.64 13.61	45.86
22 11 16 00-0547	EA		2-1/2" Wrot Copper, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	255.01 -16.53 11.35 22.69 20.31	50.49
22 11 16 00-0548	EA		3" Wrot Copper, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	571.47 -33.94 16.10 32.19 39.30	71.60
22 11 16 00-0549 Cast Bronze, Solder Union (22 11 16 00-0413)					
22 11 16 00-0550	EA		1/4" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	42.15 -3.25 3.44 6.88 4.40	15.29
22 11 16 00-0551	EA		3/8" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	47.06 -3.74 4.16 8.31 5.12	18.45
22 11 16 00-0552	EA		1/2" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	44.70 -3.96 5.16 10.32 5.68	22.93
22 11 16 00-0553	EA		3/4" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	52.09 -4.56 5.88 11.75 6.52	26.18
22 11 16 00-0554	EA		1" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	69.06 -5.79 7.02 14.05 8.14	31.25
22 11 16 00-0555	EA		1-1/4" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	88.10 -6.99 7.74 15.48 9.57	34.40
22 11 16 00-0556	EA		1-1/2" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	105.44 -8.14 8.60 17.20 11.01	38.22
22 11 16 00-0557	EA		2" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	150.78 -10.98 10.32 20.64 14.42	45.86
22 11 16 00-0558	EA		2-1/2" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	255.00 -16.53 11.35 22.69 20.31	50.49
22 11 16 00-0559	EA		3" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	571.47 -33.94 16.10 32.19 39.30	71.60
22 11 16 00-0560 Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0413)					
22 11 16 00-0561	EA		1/4" Cast Bronze, Solder X Female Threaded Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	49.14 -3.60 3.44 6.88 4.75	15.29
22 11 16 00-0562	EA		3/8" Cast Bronze, Solder X Female Threaded Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	54.83 -4.13 4.16 8.31 5.51	18.45
22 11 16 00-0563	EA		1/2" Cast Bronze, Solder X Female Threaded Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	55.94 -4.52 5.16 10.32 6.24	22.93

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0564 EA 3/4" Cast Bronze, Solder X Female Threaded Union.....	68.53	26.18
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.39	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.88	
For Work In Restricted Working Space, Add	11.75	
For Silver Solder Instead Of 95/5 Solder, Add	7.34	
22 11 16 00-0565 EA 1" Cast Bronze, Solder X Female Threaded Union.....	107.90	31.25
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.74	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.02	
For Work In Restricted Working Space, Add	14.05	
For Silver Solder Instead Of 95/5 Solder, Add	10.08	
22 11 16 00-0566 EA 1-1/4" Cast Bronze, Solder X Female Threaded Union.....	165.43	34.40
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.85	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.74	
For Work In Restricted Working Space, Add	15.48	
For Silver Solder Instead Of 95/5 Solder, Add	13.43	
22 11 16 00-0567 EA 1-1/2" Cast Bronze, Solder X Female Threaded Union.....	201.54	38.22
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.94	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.60	
For Work In Restricted Working Space, Add	17.20	
For Silver Solder Instead Of 95/5 Solder, Add	15.81	
22 11 16 00-0568 EA 2" Cast Bronze, Solder X Female Threaded Union.....	312.89	45.86
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-19.08	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.32	
For Work In Restricted Working Space, Add	20.64	
For Silver Solder Instead Of 95/5 Solder, Add	22.52	
22 11 16 00-0569 EA 2-1/2" Cast Bronze, Solder X Female Threaded Union.....	538.35	50.49
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-30.70	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.35	
For Work In Restricted Working Space, Add	22.69	
For Silver Solder Instead Of 95/5 Solder, Add	34.48	
22 11 16 00-0570 Cast Bronze, Solder X Male Threaded Union (22 11 16 00-0413)		
22 11 16 00-0571 EA 1/4" Cast Bronze, Solder X Male Threaded Union.....	42.90	15.29
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.29	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.44	
For Work In Restricted Working Space, Add	6.88	
For Silver Solder Instead Of 95/5 Solder, Add	4.44	
22 11 16 00-0572 EA 3/8" Cast Bronze, Solder X Male Threaded Union.....	51.01	18.45
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.94	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.16	
For Work In Restricted Working Space, Add	8.31	
For Silver Solder Instead Of 95/5 Solder, Add	5.32	
22 11 16 00-0573 EA 1/2" Cast Bronze, Solder X Male Threaded Union.....	51.40	22.93
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.29	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.16	
For Work In Restricted Working Space, Add	10.32	
For Silver Solder Instead Of 95/5 Solder, Add	6.01	
22 11 16 00-0574 EA 3/4" Cast Bronze, Solder X Male Threaded Union.....	64.69	26.18
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.19	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.88	
For Work In Restricted Working Space, Add	11.75	
For Silver Solder Instead Of 95/5 Solder, Add	7.15	
22 11 16 00-0575 EA 1" Cast Bronze, Solder X Male Threaded Union.....	109.66	31.25
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.82	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.02	
For Work In Restricted Working Space, Add	14.05	
For Silver Solder Instead Of 95/5 Solder, Add	10.17	
22 11 16 00-0576 EA 1-1/4" Cast Bronze, Solder X Male Threaded Union.....	129.56	34.40
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.06	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.74	
For Work In Restricted Working Space, Add	15.48	
For Silver Solder Instead Of 95/5 Solder, Add	11.64	
22 11 16 00-0577 EA 1-1/2" Cast Bronze, Solder X Male Threaded Union.....	139.21	38.22
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.83	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.60	
For Work In Restricted Working Space, Add	17.20	
For Silver Solder Instead Of 95/5 Solder, Add	12.69	
22 11 16 00-0578 EA 2" Cast Bronze, Solder X Male Threaded Union.....	194.56	45.86
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.17	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.32	
For Work In Restricted Working Space, Add	20.64	
For Silver Solder Instead Of 95/5 Solder, Add	16.61	
22 11 16 00-0579 EA 2-1/2" Cast Bronze, Solder X Male Threaded Union.....	444.18	50.49
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-25.99	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.35	
For Work In Restricted Working Space, Add	22.69	
For Silver Solder Instead Of 95/5 Solder, Add	29.77	
22 11 16 00-0580 Copper Caps (22 11 16 00-0413)		
22 11 16 00-0581 EA 1/4" Copper Cap	4.44	2.41
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-0.40	
For Brazed Fittings Instead Of 95/5 Solder, Add	0.54	
For Work In Restricted Working Space, Add	1.07	
For Silver Solder Instead Of 95/5 Solder, Add	0.58	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0582	EA		3/8" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.19 -0.45 0.57 1.15 0.64	2.54
22 11 16 00-0583	EA		1/2" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.76 -0.44 0.61 1.22 0.64	2.75
22 11 16 00-0584	EA		3/4" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.40 -0.57 0.76 1.53 0.83	3.44
22 11 16 00-0585	EA		1" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.53 -0.80 0.97 1.94 1.12	4.35
22 11 16 00-0586	EA		1-1/4" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.96 -1.09 1.33 2.65 1.53	5.96
22 11 16 00-0587	EA		1-1/2" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	16.39 -1.34 1.56 3.12 1.86	7.01
22 11 16 00-0588	EA		2" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	34.22 -2.87 3.47 6.94 4.02	15.62
22 11 16 00-0589	EA		2-1/2" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	68.40 -5.18 5.28 10.56 6.94	23.75
22 11 16 00-0590	EA		3" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	93.73 -7.00 6.93 13.85 9.30	31.17
22 11 16 00-0591	EA		4" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	144.75 -9.99 8.25 16.49 12.74	37.11
22 11 16 00-0592	EA		5" Cast Bronze Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	707.34 -39.18 11.45 22.91 43.00	50.92
22 11 16 00-0593	EA		6" Cast Bronze Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1,354.88 -72.63 14.66 29.32 77.52	65.97
22 11 16 00-0594	EA		8" Cast Bronze Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1,736.26 -93.85 21.11 42.22 100.89	94.99
22 11 16 00-0595 Copper Crosses <small>(22 11 16 00-0413)</small>					
22 11 16 00-0596	EA		1/2" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	69.11 -6.36 8.71 17.42 9.26	38.70
22 11 16 00-0597	EA		3/4" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	93.59 -8.29 10.82 21.64 11.89	48.12
22 11 16 00-0598	EA		1" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	122.67 -10.44 12.93 25.86 14.75	57.43



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0599	EA		1-1/4" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	145.65 -11.94 13.98 27.97 16.61	62.18
22 11 16 00-0600	EA		1-1/2" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	176.75 -13.94 15.30 30.61 19.04	67.99
22 11 16 00-0601	EA		2" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	255.50 -18.49 17.15 34.30 24.21	76.26
22 11 16 00-0602	EA		2-1/2" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	452.04 -28.94 19.00 38.00 35.27	84.44
22 11 16 00-0603			Cast Bronze Crosses (22 11 16 00-0413)		
22 11 16 00-0604	EA		3/8" Cast Bronze Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	56.95 -4.96 6.33 12.67 7.07	28.14
22 11 16 00-0605	EA		1/2" Cast Bronze Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	71.32 -6.47 8.71 17.42 9.37	38.70
22 11 16 00-0606	EA		3/4" Cast Bronze Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	97.88 -8.50 10.82 21.64 12.11	48.12
22 11 16 00-0607	EA		1" Cast Bronze Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	129.96 -10.81 12.93 25.86 15.12	57.43
22 11 16 00-0608	EA		1-1/4" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	156.14 -12.47 13.98 27.97 17.13	62.18
22 11 16 00-0609	EA		1-1/2" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	191.69 -14.69 15.30 30.61 19.79	67.99
22 11 16 00-0610	EA		2" Cast Bronze Cross..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	283.72 -19.90 17.15 34.30 25.62	76.26
22 11 16 00-0611	EA		2-1/2" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	517.11 -32.19 19.00 38.00 38.52	84.44
22 11 16 00-0612			Flexible Corrugated Copper Supply Line (22 11 16 00-0413)		
22 11 16 00-0613	EA		3/4" Threaded x 3/4" Solder x 18" Long, Flexible Corrugated Copper Supply Line	72.46	26.18
22 11 16 00-0614	EA		3/4" Threaded x 3/4" Solder x 24" Long, Flexible Corrugated Copper Supply Line	76.46	26.18
22 11 16 00-0615	EA		3/4" Threaded x 3/4" Threaded x 12" Long, Flexible Corrugated Copper Supply Line	65.25	26.18
22 11 16 00-0616	EA		3/4" Threaded x 3/4" Threaded x 15" Long, Flexible Corrugated Copper Supply Line	69.79	26.18
22 11 16 00-0617	EA		3/4" Threaded x 3/4" Threaded x 18" Long, Flexible Corrugated Copper Supply Line	73.79	26.18
22 11 16 00-0618	EA		3/4" Threaded x 3/4" Threaded x 24" Long, Flexible Corrugated Copper Supply Line	76.46	26.18
22 11 16 00-0619			Crimped Copper Fittings (22 11 16 00-0345) Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements.		
22 11 16 00-0620			Crimped Copper 90 Degree Elbows (22 11 16 00-0619)		
22 11 16 00-0621	EA		1/2" Crimped Copper 90 Degree Elbow	19.56	11.47
22 11 16 00-0622	EA		3/4" Crimped Copper 90 Degree Elbow	23.59	13.10
22 11 16 00-0623	EA		1" Crimped Copper 90 Degree Elbow	31.42	15.58
22 11 16 00-0624	EA		1-1/4" Crimped Copper 90 Degree Elbow.....	41.98	17.20
22 11 16 00-0625	EA		1-1/2" Crimped Copper 90 Degree Elbow.....	59.29	19.11
22 11 16 00-0626	EA		2" Crimped Copper 90 Degree Elbow.....	76.97	22.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0627 EA 2-1/2" Crimped Copper 90 Degree Elbow.....	163.78	26.75
22 11 16 00-0628 EA 3" Crimped Copper 90 Degree Elbow.....	203.34	31.82
22 11 16 00-0629 EA 4" Crimped Copper 90 Degree Elbow.....	255.54	42.04
22 11 16 00-0630 Crimped Copper 45 Degree Elbows (22 11 16 00-0619)		
22 11 16 00-0631 EA 1/2" Crimped Copper 45 Degree Elbow.....	19.95	11.47
22 11 16 00-0632 EA 3/4" Crimped Copper 45 Degree Elbow.....	22.96	13.10
22 11 16 00-0633 EA 1" Crimped Copper 45 Degree Elbow.....	34.25	15.58
22 11 16 00-0634 EA 1-1/4" Crimped Copper 45 Degree Elbow.....	41.35	17.20
22 11 16 00-0635 EA 1-1/2" Crimped Copper 45 Degree Elbow.....	53.87	19.11
22 11 16 00-0636 EA 2" Crimped Copper 45 Degree Elbow.....	69.67	22.93
22 11 16 00-0637 EA 2-1/2" Crimped Copper 45 Degree Elbow.....	121.81	26.75
22 11 16 00-0638 EA 3" Crimped Copper 45 Degree Elbow.....	164.47	31.82
22 11 16 00-0639 EA 4" Crimped Copper 45 Degree Elbow.....	225.14	42.04
22 11 16 00-0640 Crimped Copper Straight Tees (22 11 16 00-0619)		
22 11 16 00-0641 EA 1/2" Crimped Copper Straight Tee.....	29.41	17.20
22 11 16 00-0642 EA 3/4" Crimped Copper Straight Tee.....	40.28	22.65
22 11 16 00-0643 EA 1" Crimped Copper Straight Tee.....	49.22	25.13
22 11 16 00-0644 EA 1-1/4" Crimped Copper Straight Tee.....	58.10	25.80
22 11 16 00-0645 EA 1-1/2" Crimped Copper Straight Tee.....	81.65	29.34
22 11 16 00-0646 EA 2" Crimped Copper Straight Tee.....	98.18	34.40
22 11 16 00-0647 EA 2-1/2" Crimped Copper Straight Tee.....	212.98	40.13
22 11 16 00-0648 EA 3" Crimped Copper Straight Tee.....	262.63	47.77
22 11 16 00-0649 EA 4" Crimped Copper Straight Tee.....	362.55	63.07
22 11 16 00-0650 Crimped Copper Reducing Tees (22 11 16 00-0619)		
22 11 16 00-0651 EA 3/4" Crimped Copper Reducing Tee.....	34.38	16.34
22 11 16 00-0652 EA 1" Crimped Copper Reducing Tee.....	49.64	21.50
22 11 16 00-0653 EA 1-1/4" Crimped Copper Reducing Tee.....	53.59	23.89
22 11 16 00-0654 EA 1-1/2" Crimped Copper Reducing Tee.....	70.25	24.56
22 11 16 00-0655 EA 2" Crimped Copper Reducing Tee.....	84.09	27.81
22 11 16 00-0656 EA 2-1/2" Crimped Copper Reducing Tee.....	227.23	31.53
22 11 16 00-0657 EA 3" Crimped Copper Reducing Tee.....	277.03	38.22
22 11 16 00-0658 EA 4" Crimped Copper Reducing Tee.....	326.40	50.93
22 11 16 00-0659 Crimped Copper Couplings (22 11 16 00-0619)		
22 11 16 00-0660 EA 1/2" Crimped Copper Coupling.....	19.32	11.47
22 11 16 00-0661 EA 3/4" Crimped Copper Coupling.....	22.81	13.10
22 11 16 00-0662 EA 1" Crimped Copper Coupling.....	29.92	15.58
22 11 16 00-0663 EA 1-1/4" Crimped Copper Coupling.....	33.89	17.20
22 11 16 00-0664 EA 1-1/2" Crimped Copper Coupling.....	43.74	19.11
22 11 16 00-0665 EA 2" Crimped Copper Coupling.....	53.64	22.93
22 11 16 00-0666 EA 2-1/2" Crimped Copper Coupling.....	101.71	26.75
22 11 16 00-0667 EA 3" Crimped Copper Coupling.....	126.20	31.82
22 11 16 00-0668 EA 4" Crimped Copper Coupling.....	171.97	42.04
22 11 16 00-0669 Crimped Copper Reducing Couplings (22 11 16 00-0619)		
22 11 16 00-0670 EA 3/4" Crimped Copper Reducing Coupling.....	26.00	10.89
22 11 16 00-0671 EA 1" Crimped Copper Reducing Coupling.....	29.72	12.42
22 11 16 00-0672 EA 1-1/4" Crimped Copper Reducing Coupling.....	38.37	14.81
22 11 16 00-0673 EA 1-1/2" Crimped Copper Reducing Coupling.....	48.28	16.34
22 11 16 00-0674 EA 2" Crimped Copper Reducing Coupling.....	53.94	18.15
22 11 16 00-0675 EA 2-1/2" Crimped Copper FTG x C Reducing Coupling.....	105.24	21.69
22 11 16 00-0676 EA 3" Crimped Copper FTG x C Reducing Coupling.....	131.01	25.52
22 11 16 00-0677 EA 4" Crimped Copper FTG x C Reducing Coupling.....	170.37	33.73
22 11 16 00-0678 Crimped Copper Male Adapters (22 11 16 00-0619)		
22 11 16 00-0679 EA 1/2" Crimped Copper Male Adapter.....	19.80	11.47
22 11 16 00-0680 EA 3/4" Crimped Copper Male Adapter.....	24.30	13.10
22 11 16 00-0681 EA 1" Crimped Copper Male Adapter.....	32.05	15.58
22 11 16 00-0682 EA 1-1/4" Crimped Copper Male Adapter.....	44.73	17.20
22 11 16 00-0683 EA 1-1/2" Crimped Copper Male Adapter.....	55.21	19.11
22 11 16 00-0684 EA 2" Crimped Copper Male Adapter.....	85.52	22.93
22 11 16 00-0685 EA 2-1/2" Crimped Copper Male Adapter.....	163.78	26.75
22 11 16 00-0686 EA 3" Crimped Copper Male Adapter.....	203.34	31.82
22 11 16 00-0687 EA 4" Crimped Copper Male Adapter.....	243.14	42.04
22 11 16 00-0688 Crimped Copper Female Adapters (22 11 16 00-0619)		
22 11 16 00-0689 EA 1/2" Crimped Copper Female Adapter.....	20.34	11.47
22 11 16 00-0690 EA 3/4" Crimped Copper Female Adapter.....	24.70	13.10
22 11 16 00-0691 EA 1" Crimped Copper Female Adapter.....	32.84	15.58
22 11 16 00-0692 EA 1-1/4" Crimped Copper Female Adapter.....	47.08	17.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0693 EA 1-1/2" Crimped Copper Female Adapter.....	59.61	19.11
22 11 16 00-0694 EA 2" Crimped Copper Female Adapter.....	86.94	22.93
22 11 16 00-0695 Crimped Copper Caps (22 11 16 00-0619)		
22 11 16 00-0696 EA 1/2" Crimped Copper Cap.....	13.15	5.73
22 11 16 00-0697 EA 3/4" Crimped Copper Cap.....	17.73	6.69
22 11 16 00-0698 EA 1" Crimped Copper Cap.....	23.33	7.64
22 11 16 00-0699 EA 1-1/4" Crimped Copper Cap.....	26.33	8.60
22 11 16 00-0700 EA 1-1/2" Crimped Copper Cap.....	35.62	9.85
22 11 16 00-0701 EA 2" Crimped Copper Cap.....	42.49	11.47
22 11 16 00-0702 EA 2-1/2" Crimped Copper Cap.....	100.92	13.38
22 11 16 00-0703 EA 3" Crimped Copper Cap.....	126.21	15.96
22 11 16 00-0704 EA 4" Crimped Copper Cap.....	167.88	21.02
22 11 16 00-0705 C x F NPT Crimped Bronze Unions (22 11 16 00-0619)		
22 11 16 00-0706 EA 1/2" C x F NPT Crimped Bronze Union.....	36.77	15.58
22 11 16 00-0707 EA 3/4" C x F NPT Crimped Bronze Union.....	45.89	19.21
22 11 16 00-0708 EA 1" C x F NPT Crimped Bronze Union.....	62.93	23.03
22 11 16 00-0709 EA 1-1/4" C x F NPT Crimped Bronze Union.....	75.91	26.56
22 11 16 00-0710 EA 1-1/2" C x F NPT Crimped Bronze Union.....	95.53	25.99
22 11 16 00-0711 EA 2" C x F NPT Crimped Bronze Union.....	131.30	37.65
22 11 16 00-0712 C x C Crimped Bronze Unions (22 11 16 00-0619)		
22 11 16 00-0713 EA 1/2" C x C Bronze Crimped Union.....	33.85	11.47
22 11 16 00-0714 EA 3/4" C x C Bronze Crimped Union.....	41.42	13.10
22 11 16 00-0715 EA 1" C x C Bronze Crimped Union.....	58.28	15.58
22 11 16 00-0716 EA 1-1/4" C x C Bronze Crimped Union.....	75.59	17.20
22 11 16 00-0717 EA 1-1/2" C x C Bronze Crimped Union.....	96.28	19.11
22 11 16 00-0718 EA 2" C x C Bronze Crimped Union.....	144.83	22.93
22 11 16 00-0719 C x Flange Crimped Bronze Flange (22 11 16 00-0619)		
22 11 16 00-0720 EA 2-1/2" C x Flange Crimped Bronze Flange.....	276.57	26.75
22 11 16 00-0721 EA 3" C x Flange Crimped Bronze Flange.....	302.25	31.82
22 11 16 00-0722 EA 4" C x Flange Crimped Bronze Flange.....	347.96	42.04
22 11 16 00-0723 Field Installed FKM Seals (22 11 16 00-0619)		
Note: For vacuum systems. Includes removing factory installed ethylene propylene diene monomer (EPDM) seal and installing FKM seal.		
22 11 16 00-0724 EA 1/2" Field Installed FKM Seal.....	5.63	
Note: To be used in conjunction with fittings.		
22 11 16 00-0725 EA 3/4" Field Installed FKM Seal.....	7.06	
Note: To be used in conjunction with fittings.		
22 11 16 00-0726 EA 1" Field Installed FKM Seal.....	8.09	
Note: To be used in conjunction with fittings.		
22 11 16 00-0727 EA 1-1/4" Field Installed FKM Seal.....	9.28	
Note: To be used in conjunction with fittings.		
22 11 16 00-0728 EA 1-1/2" Field Installed FKM Seal.....	12.74	
Note: To be used in conjunction with fittings.		
22 11 16 00-0729 EA 2" Field Installed FKM Seal.....	14.25	
Note: To be used in conjunction with fittings.		
22 11 16 00-0730 EA 2-1/2" Field Installed FKM Seal.....	20.80	
Note: To be used in conjunction with fittings.		
22 11 16 00-0731 EA 3" Field Installed FKM Seal.....	23.96	
Note: To be used in conjunction with fittings.		
22 11 16 00-0732 EA 4" Field Installed FKM Seal.....	32.57	
Note: To be used in conjunction with fittings.		
22 11 16 00-0733 Cut And Prepare Existing In-Place Copper Pipe (22 11 16 00-0345)		
22 11 16 00-0734 EA Up To 1/2", Cut And Prepare Existing In Place Copper Pipe.....	9.55	
22 11 16 00-0735 EA 3/4", Cut And Prepare Existing In Place Copper Pipe.....	10.32	
22 11 16 00-0736 EA 1", Cut And Prepare Existing In Place Copper Pipe.....	11.61	
22 11 16 00-0737 EA 1-1/4", Cut And Prepare Existing In Place Copper Pipe.....	12.18	
22 11 16 00-0738 EA 1-1/2", Cut And Prepare Existing In Place Copper Pipe.....	12.90	
22 11 16 00-0739 EA 2", Cut And Prepare Existing In Place Copper Pipe.....	14.19	
22 11 16 00-0740 EA 2-1/2", Cut And Prepare Existing In Place Copper Pipe.....	15.29	
22 11 16 00-0741 EA 3", Cut And Prepare Existing In Place Copper Pipe.....	18.06	
22 11 16 00-0742 EA 4", Cut And Prepare Existing In Place Copper Pipe.....	24.37	
22 11 16 00-0743 EA 6", Cut And Prepare Existing In Place Copper Pipe.....	34.82	
22 11 16 00-0744 EA 8", Cut And Prepare Existing In Place Copper Pipe.....	46.45	
22 11 16 00-0745 Sweat Brass Companion Flanges (22 11 16 00-0345)		
22 11 16 00-0746 EA 1" Sweat Brass Companion Flange.....	52.47	14.69
22 11 16 00-0747 EA 1-1/4" Sweat Brass Companion Flange.....	57.29	16.18
22 11 16 00-0748 EA 1-1/2" Sweat Brass Companion Flange.....	81.57	17.59



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0749 EA 2" Sweat Brass Companion Flange	108.89	19.53
22 11 16 00-0750 EA 2-1/2" Sweat Brass Companion Flange	137.60	23.48
22 11 16 00-0751 EA 3" Sweat Brass Companion Flange	152.15	30.79
22 11 16 00-0752 EA 4" Sweat Brass Companion Flange	202.87	36.68
22 11 16 00-0753 EA 5" Sweat Brass Companion Flange	380.10	43.15
22 11 16 00-0754 EA 6" Sweat Brass Companion Flange	439.71	62.69
22 11 16 00-0755 EA 8" Copper Companion Flange	1,008.01	89.42
22 11 16 00-0756 Brass Compression Fittings (22 11 16 00-0345)		
22 11 16 00-0757 Brass Compression Unions (22 11 16 00-0756)		
22 11 16 00-0758 EA 1/4" Brass Compression Union	16.32	10.32
22 11 16 00-0759 EA 3/8" Brass Compression Union	16.55	10.32
22 11 16 00-0760 EA 1/2" Brass Compression Union	17.26	10.32
22 11 16 00-0761 EA 5/8" Brass Compression Union	17.60	10.32
22 11 16 00-0762 EA 3/4" Brass Compression Union	22.63	10.32
22 11 16 00-0763 EA 3/8" x 1/4" Brass Compression Union	16.71	10.32
22 11 16 00-0764 EA 1/2" x 3/8" Brass Compression Union	17.32	10.32
22 11 16 00-0765 EA 5/8" x 3/8" Brass Compression Union	17.74	10.32
22 11 16 00-0766 EA 5/8" x 1/2" Brass Compression Union	18.41	10.32
22 11 16 00-0767 Brass Compression Union Elbows (22 11 16 00-0756)		
22 11 16 00-0768 EA 1/4" Brass Compression Union Elbow	17.26	10.32
22 11 16 00-0769 EA 3/8" Brass Compression Union Elbow	17.64	10.32
22 11 16 00-0770 EA 1/2" Brass Compression Union Elbow	18.48	10.32
22 11 16 00-0771 EA 5/8" Brass Compression Union Elbow	19.78	10.32
22 11 16 00-0772 EA 3/4" Brass Compression Union Elbow	24.85	10.32
22 11 16 00-0773 EA 3/8" x 1/4" Brass Compression Union Elbow	17.64	10.32
22 11 16 00-0774 EA 1/2" x 3/8" Brass Compression Union Elbow	18.48	10.32
22 11 16 00-0775 EA 5/8" x 3/8" Brass Compression Union Elbow	18.71	10.32
22 11 16 00-0776 EA 5/8" x 1/2" Brass Compression Union Elbow	22.53	10.32
22 11 16 00-0777 Brass Compression Union Tees (22 11 16 00-0756)		
22 11 16 00-0778 EA 1/4" Brass Compression Union Tee	17.55	10.32
22 11 16 00-0779 EA 3/8" Brass Compression Union Tee	18.34	10.32
22 11 16 00-0780 EA 1/2" Brass Compression Union Tee	19.18	10.32
22 11 16 00-0781 EA 5/8" Brass Compression Union Tee	21.83	10.32
22 11 16 00-0782 EA 3/4" Brass Compression Union Tee	30.99	10.32
22 11 16 00-0783 EA 3/8" x 3/8" x 1/4" Brass Compression Union Tee	18.90	10.32
22 11 16 00-0784 EA 1/2" x 1/2" x 3/8" Brass Compression Union Tee	23.20	10.32
22 11 16 00-0785 EA 5/8" x 5/8" x 3/8" Brass Compression Union Tee	22.79	10.32
22 11 16 00-0786 EA 5/8" x 5/8" x 1/2" Brass Compression Union Tee	23.27	10.32
22 11 16 00-0787 Brass Compression Male Connectors (22 11 16 00-0756)		
22 11 16 00-0788 EA 1/4" Brass Compression Male Connector	16.15	10.32
22 11 16 00-0789 EA 3/8" Brass Compression Male Connector	16.46	10.32
22 11 16 00-0790 EA 1/2" Brass Compression Male Connector	16.99	10.32
22 11 16 00-0791 EA 5/8" Brass Compression Male Connector	17.78	10.32
22 11 16 00-0792 EA 3/4" Brass Compression Male Connector	20.47	10.23
22 11 16 00-0793 Brass Compression Female Connectors (22 11 16 00-0756)		
22 11 16 00-0794 EA 1/4" Brass Compression Female Connector	16.49	10.32
22 11 16 00-0795 EA 3/8" Brass Compression Female Connector	16.89	10.32
22 11 16 00-0796 EA 1/2" Brass Compression Female Connector	17.56	10.32
22 11 16 00-0797 EA 5/8" Brass Compression Female Connector	18.01	10.32
22 11 16 00-0798 EA 3/4" Brass Compression Female Connector	25.45	10.13
22 11 16 00-0799 Dielectric Fittings (22 11 16 00-0345)		
22 11 16 00-0800 Copper x Female Iron Pipe Thread Dielectric Unions (22 11 16 00-0799)		
22 11 16 00-0801 EA 1/2" Copper x Female Iron Pipe Thread Dielectric Union	40.74	22.93
22 11 16 00-0802 EA 3/4" Copper x Female Iron Pipe Thread Dielectric Union	45.51	26.18
22 11 16 00-0803 EA 1" Copper x Female Iron Pipe Thread Dielectric Union	54.13	28.77
22 11 16 00-0804 EA 1-1/4" Copper x Female Iron Pipe Thread Dielectric Union	65.58	31.66
22 11 16 00-0805 EA 1-1/2" Copper x Female Iron Pipe Thread Dielectric Union	79.28	35.19
22 11 16 00-0806 EA 2" Copper x Female Iron Pipe Thread Dielectric Union	100.69	42.22
22 11 16 00-0807 Female Brass Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0799)		
22 11 16 00-0808 EA 1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union	44.75	22.93
22 11 16 00-0809 EA 3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union	52.11	26.18
22 11 16 00-0810 EA 1" Female Brass Thread x Iron Pipe Thread Dielectric Union	62.82	28.77
22 11 16 00-0811 EA 1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union	77.13	31.66
22 11 16 00-0812 EA 1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union	93.56	35.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0813 EA 2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	117.44	42.22
22 11 16 00-0814 Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0799)		
22 11 16 00-0815 EA 1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	42.21	22.93
22 11 16 00-0816 EA 3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	47.92	26.18
22 11 16 00-0817 EA 1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	54.76	28.77
22 11 16 00-0818 EA 1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	63.35	31.66
22 11 16 00-0819 EA 1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	77.07	35.19
22 11 16 00-0820 EA 2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	98.92	42.22
22 11 16 00-0821 Copper x Female Iron Pipe Thread Dielectric Flanges (22 11 16 00-0799)		
22 11 16 00-0822 EA 2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange.....	245.15	108.54
22 11 16 00-0823 EA 3" Copper x Female Iron Pipe Thread Dielectric Flange.....	306.91	136.69
22 11 16 00-0824 EA 4" Copper x Female Iron Pipe Thread Dielectric Flange.....	432.69	186.03
22 11 16 00-0825 Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges (22 11 16 00-0799)		
22 11 16 00-0826 EA 2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	246.81	108.54
22 11 16 00-0827 EA 3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	320.04	136.69
22 11 16 00-0828 EA 4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	584.21	186.03
22 11 16 00-0829 Brass Push-Fit Fittings (22 11 16)		
22 11 16 00-0830 EA 1/4" x 1/4" Brass Push-Fit Coupling.....	18.83	9.55
Note: (Sharkbite)		
22 11 16 00-0831 EA 3/8" x 3/8" Brass Push-Fit Coupling.....	22.69	10.20
Note: (Sharkbite)		
22 11 16 00-0832 EA 1/2" x 1/2" Brass Push-Fit Coupling.....	23.89	11.47
Note: (Sharkbite)		
22 11 16 00-0833 EA 5/8" x 5/8" Brass Push-Fit Coupling.....	27.10	12.23
Note: (Sharkbite)		
22 11 16 00-0834 EA 3/4" x 3/4" Brass Push-Fit Coupling.....	27.86	13.07
Note: (Sharkbite)		
22 11 16 00-0835 EA 1" x 1" Brass Push-Fit Coupling.....	38.03	15.61
Note: (Sharkbite)		
22 11 16 00-0836 EA 1/2" x 3/8" Brass Push-Fit Reducing Coupling.....	23.28	10.82
Note: (Sharkbite)		
22 11 16 00-0837 EA 3/4" x 5/8" Brass Push-Fit Reducing Coupling.....	26.67	11.85
Note: (Sharkbite)		
22 11 16 00-0838 EA 1" x 3/4" Brass Push-Fit Reducing Coupling.....	38.37	14.33
Note: (Sharkbite)		
22 11 16 00-0839 EA 1/4" x 1/4" Brass Push-Fit Elbow.....	19.48	9.55
Note: (Sharkbite)		
22 11 16 00-0840 EA 3/8" x 3/8" Brass Push-Fit Elbow.....	25.46	10.20
Note: (Sharkbite)		
22 11 16 00-0841 EA 1/2" x 1/2" Brass Push-Fit Elbow.....	24.24	11.47
Note: (Sharkbite)		
22 11 16 00-0842 EA 5/8" x 5/8" Brass Push-Fit Elbow.....	28.71	12.23
Note: (Sharkbite)		
22 11 16 00-0843 EA 3/4" x 3/4" Brass Push-Fit Elbow.....	27.40	13.07
Note: (Sharkbite)		
22 11 16 00-0844 EA 1" x 1" Brass Push-Fit Elbow.....	38.38	15.61
Note: (Sharkbite)		
22 11 16 00-0845 EA 1/2" x 3/8" Brass Push-Fit Reducing Elbow.....	22.99	10.82
Note: (Sharkbite)		
22 11 16 00-0846 EA 3/4" x 1/2" Brass Push-Fit Reducing Elbow.....	25.52	11.85
Note: (Sharkbite)		
22 11 16 00-0847 EA 1" x 3/4" Brass Push-Fit Reducing Elbow.....	46.30	14.33
Note: (Sharkbite)		
22 11 16 00-0848 EA 1/4" x 1/4" x 1/4" Brass Push-Fit Tee.....	29.49	14.33
Note: (Sharkbite)		
22 11 16 00-0849 EA 3/8" x 3/8" x 3/8" Brass Push-Fit Tee.....	36.16	15.29
Note: (Sharkbite)		
22 11 16 00-0850 EA 1/2" x 1/2" x 1/2" Brass Push-Fit Tee.....	34.44	17.20
Note: (Sharkbite)		
22 11 16 00-0851 EA 5/8" x 5/8" x 5/8" Brass Push-Fit Tee.....	42.38	18.35
Note: (Sharkbite)		
22 11 16 00-0852 EA 3/4" x 3/4" x 3/4" Brass Push-Fit Tee.....	39.98	19.59
Note: (Sharkbite)		
22 11 16 00-0853 EA 1" x 1" x 1" Brass Push-Fit Tee.....	53.27	23.41
Note: (Sharkbite)		
22 11 16 00-0854 EA 1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee.....	37.39	16.24
Note: (Sharkbite)		
22 11 16 00-0855 EA 1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee.....	37.68	16.57
Note: (Sharkbite)		
22 11 16 00-0856 EA 3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee.....	38.55	18.80
Note: (Sharkbite)		
22 11 16 00-0857 EA 1" x 1" x 3/4" Brass Push-Fit Reducing Tee.....	51.44	22.14
Note: (Sharkbite)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0858	EA		1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	22.07	10.51
	22 11 16 00-0859	EA		3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	21.98	10.82
	22 11 16 00-0860	EA		1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	22.04	11.47
	22 11 16 00-0861	EA		3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	25.21	13.07
	22 11 16 00-0862	EA		1" x 1" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	34.30	15.61
	22 11 16 00-0863	EA		1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	19.84	10.51
	22 11 16 00-0864	EA		3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	21.98	10.82
	22 11 16 00-0865	EA		1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	22.09	11.47
	22 11 16 00-0866	EA		3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	25.01	13.07
	22 11 16 00-0867	EA		5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	26.55	12.64
	22 11 16 00-0868	EA		1" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	31.50	14.33
	22 11 16 00-0869	EA		1" x 1" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	34.71	15.61
	22 11 16 00-0870	EA		1/2" Brass Push-Fit Ball Valve..... Note: (Sharkbite)	29.74	11.47
	22 11 16 00-0871	EA		3/4" Brass Push-Fit Ball Valve..... Note: (Sharkbite)	34.62	13.07
	22 11 16 00-0872	EA		1" Brass Push-Fit Ball Valve..... Note: (Sharkbite)	45.06	15.61
	22 11 16 00-0873	EA		1/2" Brass Push-Fit Check Valve..... Note: (Sharkbite)	31.52	11.47
	22 11 16 00-0874	EA		3/4" Brass Push-Fit Check Valve..... Note: (Sharkbite)	37.64	13.07
	22 11 16 00-0875	EA		1" Brass Push-Fit Check Valve..... Note: (Sharkbite)	60.76	15.61
	22 11 16 00-0876			Copper Pipe Assemblies <small>(22 11 16)</small> Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
	22 11 16 00-0877	LF		1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.17 <i>For Type M Tubing Instead Of Type L, Deduct</i> -0.99 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 2.41 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -1.66 <i>For Work In Restricted Working Space, Add</i> 4.49	18.24	2.68
	22 11 16 00-0878	LF		3/4" Inside Diameter Copper Pipe/Tubing Type L Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.35 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.14 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 2.74 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -1.89 <i>For Work In Restricted Working Space, Add</i> 5.08	20.82	3.44
	22 11 16 00-0879	LF		1" Inside Diameter Copper Pipe/Tubing Type L Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.57 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.30 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 2.91 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.02 <i>For Work In Restricted Working Space, Add</i> 5.33	22.66	4.11
	22 11 16 00-0880	LF		1-1/4" Inside Diameter Copper Pipe/Tubing Type L Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.92 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.55 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 3.11 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.18 <i>For Work In Restricted Working Space, Add</i> 5.54 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -0.68	25.22	4.78
	22 11 16 00-0881	LF		1-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.20 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.76 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 3.36 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.37 <i>For Work In Restricted Working Space, Add</i> 5.90 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -0.81	27.80	5.45



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0882	LF		2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	34.39	6.79
			<i>For Type K Tubing Instead Of Type L, Add</i>	2.95	
			<i>For Type M Tubing Instead Of Type L, Deduct</i>	-2.32	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.98	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.85	
			<i>For Work In Restricted Working Space, Add</i>	6.79	
			<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-1.18	
22 11 16 00-0883	LF		2-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	41.73	8.18
			<i>For Type K Tubing Instead Of Type L, Add</i>	4.02	
			<i>For Type M Tubing Instead Of Type L, Deduct</i>	-3.07	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.51	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.30	
			<i>For Work In Restricted Working Space, Add</i>	7.28	
			<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-1.75	
22 11 16 00-0884	LF		3" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	50.30	9.50
			<i>For Type K Tubing Instead Of Type L, Add</i>	5.24	
			<i>For Type M Tubing Instead Of Type L, Deduct</i>	-3.93	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.14	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.83	
			<i>For Work In Restricted Working Space, Add</i>	7.88	
			<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-2.40	
22 11 16 00-0885	LF		4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	77.06	12.58
			<i>For Type K Tubing Instead Of Type L, Add</i>	8.87	
			<i>For Type M Tubing Instead Of Type L, Deduct</i>	-6.53	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.25	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.55	
			<i>For Work In Restricted Working Space, Add</i>	10.20	
			<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-4.31	
22 11 16 00-0886	LF		5" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	138.55	15.66
			<i>For Type K Tubing Instead Of Type L, Add</i>	18.30	
			<i>For Type M Tubing Instead Of Type L, Deduct</i>	-13.14	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.29	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.11	
			<i>For Work In Restricted Working Space, Add</i>	13.09	
			<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-9.49	
22 11 16 00-0887	LF		6" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	180.79	18.91
			<i>For Type K Tubing Instead Of Type L, Add</i>	24.08	
			<i>For Type M Tubing Instead Of Type L, Deduct</i>	-17.26	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.58	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.81	
			<i>For Work In Restricted Working Space, Add</i>	16.62	
			<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-12.54	
22 11 16 00-0888	LF		8" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	406.32	22.61
			<i>For Type K Tubing Instead Of Type L, Add</i>	61.61	
			<i>For Type M Tubing Instead Of Type L, Deduct</i>	-43.25	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	27.20	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-23.76	
			<i>For Work In Restricted Working Space, Add</i>	20.66	
			<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-33.75	
22 11 16 00-0889			Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16) Note: Socket weld.		
22 11 16 00-0890			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0889)		
22 11 16 00-0891			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe (22 11 16 00-0890)		
22 11 16 00-0892	LF		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	5.26 1.05	1.41
22 11 16 00-0893	LF		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	6.08 1.11	1.48
22 11 16 00-0894	LF		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.47 1.19	1.59
22 11 16 00-0895	LF		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.19 1.31	1.73
22 11 16 00-0896	LF		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	10.66 1.44	1.92
22 11 16 00-0897	LF		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	13.47 1.61	2.14
22 11 16 00-0898	LF		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	18.51 1.83	2.44



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				22 11 16 00-0899 LF 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....23.78		2.89
				<i>For Work In Restricted Working Space, Add</i>	2.16	
				22 11 16 00-0900 LF 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....33.18		3.54
				<i>For Work In Restricted Working Space, Add</i>	2.66	
				22 11 16 00-0901 LF 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....58.32		4.51
				<i>For Work In Restricted Working Space, Add</i>	3.38	
				22 11 16 00-0902 LF 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....84.17		5.91
				<i>For Work In Restricted Working Space, Add</i>	4.43	
				22 11 16 00-0903 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows (22 11 16 00-0890)		
				22 11 16 00-0904 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....19.44		6.68
				<i>For Work In Restricted Working Space, Add</i>	5.01	
				22 11 16 00-0905 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....25.35		8.44
				<i>For Work In Restricted Working Space, Add</i>	6.33	
				22 11 16 00-0906 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....33.18		10.55
				<i>For Work In Restricted Working Space, Add</i>	7.94	
				22 11 16 00-0907 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....45.99		13.19
				<i>For Work In Restricted Working Space, Add</i>	9.92	
				22 11 16 00-0908 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....51.17		14.60
				<i>For Work In Restricted Working Space, Add</i>	10.98	
				22 11 16 00-0909 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....60.47		14.60
				<i>For Work In Restricted Working Space, Add</i>	12.24	
				22 11 16 00-0910 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....97.66		18.55
				<i>For Work In Restricted Working Space, Add</i>	13.94	
				22 11 16 00-0911 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....110.53		21.99
				<i>For Work In Restricted Working Space, Add</i>	16.47	
				22 11 16 00-0912 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....160.35		27.01
				<i>For Work In Restricted Working Space, Add</i>	20.27	
				22 11 16 00-0913 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....202.16		34.30
				<i>For Work In Restricted Working Space, Add</i>	25.76	
				22 11 16 00-0914 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....397.24		45.04
				<i>For Work In Restricted Working Space, Add</i>	33.77	
				22 11 16 00-0915 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows (22 11 16 00-0890)		
				22 11 16 00-0916 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....20.80		6.68
				<i>For Work In Restricted Working Space, Add</i>	5.01	
				22 11 16 00-0917 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....26.98		8.44
				<i>For Work In Restricted Working Space, Add</i>	6.33	
				22 11 16 00-0918 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....35.83		10.55
				<i>For Work In Restricted Working Space, Add</i>	7.94	
				22 11 16 00-0919 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....49.47		13.19
				<i>For Work In Restricted Working Space, Add</i>	9.92	
				22 11 16 00-0920 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....55.42		14.60
				<i>For Work In Restricted Working Space, Add</i>	10.98	
				22 11 16 00-0921 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....61.91		16.36
				<i>For Work In Restricted Working Space, Add</i>	12.24	
				22 11 16 00-0922 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....98.57		18.55
				<i>For Work In Restricted Working Space, Add</i>	13.94	
				22 11 16 00-0923 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....110.41		21.99
				<i>For Work In Restricted Working Space, Add</i>	16.47	
				22 11 16 00-0924 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....143.73		27.01
				<i>For Work In Restricted Working Space, Add</i>	20.27	
				22 11 16 00-0925 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....233.33		34.30
				<i>For Work In Restricted Working Space, Add</i>	25.76	
				22 11 16 00-0926 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....419.33		45.04
				<i>For Work In Restricted Working Space, Add</i>	33.77	
				22 11 16 00-0927 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees (22 11 16 00-0890)		
				22 11 16 00-0928 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....30.02		10.03
				<i>For Work In Restricted Working Space, Add</i>	7.52	
				22 11 16 00-0929 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....39.58		12.67
				<i>For Work In Restricted Working Space, Add</i>	9.50	
				22 11 16 00-0930 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....49.49		15.92
				<i>For Work In Restricted Working Space, Add</i>	11.93	
				22 11 16 00-0931 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....70.13		19.88
				<i>For Work In Restricted Working Space, Add</i>	14.88	
				22 11 16 00-0932 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....78.41		21.99
				<i>For Work In Restricted Working Space, Add</i>	16.47	
				22 11 16 00-0933 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....96.30		24.45
				<i>For Work In Restricted Working Space, Add</i>	18.37	
				22 11 16 00-0934 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....127.30		27.88
				<i>For Work In Restricted Working Space, Add</i>	20.90	
				22 11 16 00-0935 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....145.04		32.89
				<i>For Work In Restricted Working Space, Add</i>	24.70	
				22 11 16 00-0936 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....175.40		40.55
				<i>For Work In Restricted Working Space, Add</i>	30.40	
				22 11 16 00-0937 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....273.53		51.55
				<i>For Work In Restricted Working Space, Add</i>	38.63	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0938 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	583.30 50.66	67.56
22 11 16 00-0939 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses (22 11 16 00-0890)		
22 11 16 00-0940 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	37.70 10.03	13.37
22 11 16 00-0941 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	49.04 12.67	16.88
22 11 16 00-0942 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	61.34 15.89	21.20
22 11 16 00-0943 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	83.83 19.85	26.47
22 11 16 00-0944 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	93.44 21.95	29.29
22 11 16 00-0945 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	111.84 24.49	32.63
22 11 16 00-0946 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	142.52 27.86	37.12
22 11 16 00-0947 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	163.78 32.93	43.89
22 11 16 00-0948 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	198.91 40.53	54.00
22 11 16 00-0949 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	296.37 51.51	68.69
22 11 16 00-0950 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	582.12 67.55	90.07
22 11 16 00-0951 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts (22 11 16 00-0890)		
22 11 16 00-0952 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	17.12 4.65	6.16
22 11 16 00-0953 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	24.03 6.26	8.35
22 11 16 00-0954 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	41.81 8.18	10.91
22 11 16 00-0955 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	47.33 9.05	12.05
22 11 16 00-0956 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	56.23 10.11	13.45
22 11 16 00-0957 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	60.89 11.51	15.30
22 11 16 00-0958 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	74.16 13.59	18.12
22 11 16 00-0959 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	102.01 16.73	22.26
22 11 16 00-0960 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	169.32 21.24	28.32
22 11 16 00-0961 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	389.28 27.86	37.12
22 11 16 00-0962 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts (22 11 16 00-0890)		
22 11 16 00-0963 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	21.68 3.30	4.40
22 11 16 00-0964 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	27.00 4.65	6.16
22 11 16 00-0965 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	33.20 6.26	8.35
22 11 16 00-0966 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	41.02 8.18	10.91
22 11 16 00-0967 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	48.50 9.05	12.05
22 11 16 00-0968 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	62.06 10.11	13.45
22 11 16 00-0969 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	98.99 11.51	15.30
22 11 16 00-0970 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	203.69 13.59	18.12
22 11 16 00-0971 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	305.39 16.73	22.26
22 11 16 00-0972 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters (22 11 16 00-0890)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0973	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	15.09	4.40
			<i>For Work In Restricted Working Space, Add</i>	3.30	
22 11 16 00-0974	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	21.02	6.16
			<i>For Work In Restricted Working Space, Add</i>	4.65	
22 11 16 00-0975	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	30.17	8.35
			<i>For Work In Restricted Working Space, Add</i>	6.26	
22 11 16 00-0976	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	41.02	10.91
			<i>For Work In Restricted Working Space, Add</i>	8.18	
22 11 16 00-0977	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	48.77	12.05
			<i>For Work In Restricted Working Space, Add</i>	9.05	
22 11 16 00-0978	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	58.84	13.45
			<i>For Work In Restricted Working Space, Add</i>	10.11	
22 11 16 00-0979	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	85.96	15.30
			<i>For Work In Restricted Working Space, Add</i>	11.51	
22 11 16 00-0980	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	102.87	18.12
			<i>For Work In Restricted Working Space, Add</i>	13.59	
22 11 16 00-0981	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	153.10	22.26
			<i>For Work In Restricted Working Space, Add</i>	16.73	
22 11 16 00-0982 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters (22 11 16 00-0980)					
22 11 16 00-0983	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	16.65	4.40
			<i>For Work In Restricted Working Space, Add</i>	3.30	
22 11 16 00-0984	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	21.51	6.16
			<i>For Work In Restricted Working Space, Add</i>	4.65	
22 11 16 00-0985	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	30.30	8.35
			<i>For Work In Restricted Working Space, Add</i>	6.26	
22 11 16 00-0986	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	41.47	10.91
			<i>For Work In Restricted Working Space, Add</i>	8.18	
22 11 16 00-0987	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	46.68	12.05
			<i>For Work In Restricted Working Space, Add</i>	9.05	
22 11 16 00-0988	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	57.14	13.45
			<i>For Work In Restricted Working Space, Add</i>	10.11	
22 11 16 00-0989	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	86.95	15.30
			<i>For Work In Restricted Working Space, Add</i>	11.51	
22 11 16 00-0990	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	120.06	18.12
			<i>For Work In Restricted Working Space, Add</i>	13.59	
22 11 16 00-0991	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	182.34	22.26
			<i>For Work In Restricted Working Space, Add</i>	16.73	
22 11 16 00-0992 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings (22 11 16 00-0890)					
22 11 16 00-0993	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	13.51	4.04
			<i>For Work In Restricted Working Space, Add</i>	3.01	
22 11 16 00-0994	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	19.00	5.62
			<i>For Work In Restricted Working Space, Add</i>	4.22	
22 11 16 00-0995	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	25.54	7.57
			<i>For Work In Restricted Working Space, Add</i>	5.67	
22 11 16 00-0996	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	34.69	9.94
			<i>For Work In Restricted Working Space, Add</i>	7.44	
22 11 16 00-0997	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	39.90	11.00
			<i>For Work In Restricted Working Space, Add</i>	8.23	
22 11 16 00-0998	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	45.08	12.23
			<i>For Work In Restricted Working Space, Add</i>	9.18	
22 11 16 00-0999	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	69.52	13.90
			<i>For Work In Restricted Working Space, Add</i>	10.45	
22 11 16 00-1000	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	76.20	16.45
			<i>For Work In Restricted Working Space, Add</i>	12.35	
22 11 16 00-1001	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	96.56	20.23
			<i>For Work In Restricted Working Space, Add</i>	15.20	
22 11 16 00-1002	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	154.95	25.77
			<i>For Work In Restricted Working Space, Add</i>	19.32	
22 11 16 00-1003	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	267.94	33.78
			<i>For Work In Restricted Working Space, Add</i>	25.33	
22 11 16 00-1004 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions (22 11 16 00-0890)					
22 11 16 00-1005	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	26.90	4.84
			<i>For Work In Restricted Working Space, Add</i>	3.62	
22 11 16 00-1006	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	32.45	6.77
			<i>For Work In Restricted Working Space, Add</i>	5.06	
22 11 16 00-1007	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	38.75	9.06
			<i>For Work In Restricted Working Space, Add</i>	6.81	
22 11 16 00-1008	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	67.49	11.87
			<i>For Work In Restricted Working Space, Add</i>	8.92	
22 11 16 00-1009	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	71.33	13.19
			<i>For Work In Restricted Working Space, Add</i>	9.87	
22 11 16 00-1010	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	100.55	14.69
			<i>For Work In Restricted Working Space, Add</i>	11.03	
22 11 16 00-1011	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	174.04	16.71
			<i>For Work In Restricted Working Space, Add</i>	12.53	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1012	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	249.29 14.83	19.79
22 11 16 00-1013	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	400.55 18.23	24.28
22 11 16 00-1014	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	536.10 23.17	30.87
22 11 16 00-1015	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	661.86 30.40	40.55
22 11 16 00-1016			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps <small>(22 11 16 00-0890)</small>		
22 11 16 00-1017	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	8.83 1.00	1.32
22 11 16 00-1018	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	14.83 2.11	2.82
22 11 16 00-1019	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	25.14 3.41	4.58
22 11 16 00-1020	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	27.52 3.72	4.93
22 11 16 00-1021	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	29.14 4.12	5.45
22 11 16 00-1022	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	40.12 4.59	6.16
22 11 16 00-1023	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	62.11 5.23	6.95
22 11 16 00-1024	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	66.31 6.18	8.27
22 11 16 00-1025	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	102.45 7.60	10.11
22 11 16 00-1026	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	224.06 9.66	12.84
22 11 16 00-1027	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	288.59 12.67	16.88
22 11 16 00-1028			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <small>(22 11 16 00-0890)</small>		
22 11 16 00-1029	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	21.26 2.40	3.17
22 11 16 00-1030	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	25.46 3.38	4.49
22 11 16 00-1031	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	30.96 4.54	6.07
22 11 16 00-1032	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	36.17 5.96	7.92
22 11 16 00-1033	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	38.65 6.60	8.79
22 11 16 00-1034	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	46.61 7.34	9.76
22 11 16 00-1035	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	62.47 8.36	11.17
22 11 16 00-1036	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	70.61 9.87	13.19
22 11 16 00-1037	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	88.35 12.17	16.18
22 11 16 00-1038	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	126.69 15.47	20.59
22 11 16 00-1039	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	237.09 20.27	27.01
22 11 19			Domestic Water Piping Specialties <small>(22 11)</small>		
22 11 19 00-0001			Rubber Hose And Clamps <small>(22 11 19)</small>		
22 11 19 00-0002			General Purpose Hose <small>(22 11 19 00-0001)</small> Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.		
22 11 19 00-0003	LF		3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	4.58	1.91
22 11 19 00-0004	LF		1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	5.15	1.91
22 11 19 00-0005	LF		5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	5.89	1.91
22 11 19 00-0006	LF		3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	5.92	1.91
22 11 19 00-0007	LF		1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	7.37	2.86
22 11 19 00-0008	LF		1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	10.70	2.86
22 11 19 00-0009	LF		1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	11.69	3.81
22 11 19 00-0010	LF		2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	19.75	3.81
22 11 19 00-0011			Reinforced EPDM Water Hose Assembly <small>(22 11 19 00-0001)</small> Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.		
22 11 19 00-0012	LF		1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	24.76	3.81
22 11 19 00-0013	LF		2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	28.93	3.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0014 LF 3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	40.54	4.69
22 11 19 00-0015 LF 4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	56.10	6.33
22 11 19 00-0016 Chemical Resistant Rubber Hoses (22 11 19 00-0001)		
22 11 19 00-0017 EA 50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose.....	1,144.54	232.91
22 11 19 00-0018 EA 50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose.....	1,589.23	232.91
22 11 19 00-0019 Water Pump Hose (22 11 19 00-0001)		
22 11 19 00-0020 EA 2" Inside Diameter, 20' Rubber Discharge Hose.....	255.63	58.23
22 11 19 00-0021 EA 2" Inside Diameter, 20' Rubber Intake Hose.....	266.39	58.23
22 11 19 00-0022 Serrated Shank Nipple (22 11 19 00-0001)		
Note: For use as medium pressure coupling.		
22 11 19 00-0023 EA 3/8" Inside Diameter Hose x 1/2" Male Pipe Thread Serrated Shank Nipple.....	20.83	4.77
22 11 19 00-0024 EA 1/2" Inside Diameter Hose x 5/8" Male Pipe Thread Serrated Shank Nipple.....	20.71	4.77
22 11 19 00-0025 EA 5/8" Inside Diameter Hose x 3/4" Male Pipe Thread Serrated Shank Nipple.....	20.71	4.77
22 11 19 00-0026 EA 3/4" Inside Diameter Hose x 1" Male Pipe Thread Serrated Shank Nipple.....	26.33	6.67
22 11 19 00-0027 EA 1" Inside Diameter Hose x 1-1/4" Male Pipe Thread Serrated Shank Nipple.....	27.74	6.67
22 11 19 00-0028 EA 1-1/4" Inside Diameter Hose x 1-1/2" Male Pipe Thread Serrated Shank Nipple.....	52.16	12.39
22 11 19 00-0029 EA 1-1/2" Inside Diameter Hose x 2" Male Pipe Thread Serrated Shank Nipple.....	64.67	15.25
22 11 19 00-0030 Worm-Drive Hose Clamp (22 11 19 00-0001)		
22 11 19 00-0031 EA 3/8" To 1" Diameter Worm Drive Hose Clamp.....	9.76	2.86
22 11 19 00-0032 EA 1/2" To 1-1/6" Diameter Worm Drive Hose Clamp.....	10.34	2.86
22 11 19 00-0033 EA 5/8" To 1-1/2" Diameter Worm Drive Hose Clamp.....	10.96	2.86
22 11 19 00-0034 EA 3/4" To 2" Diameter Worm Drive Hose Clamp.....	11.66	2.86
22 11 19 00-0035 EA 1" To 2-1/2" Diameter Worm Drive Hose Clamp.....	12.48	2.86
22 11 19 00-0036 EA 1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp.....	13.49	3.81
22 11 19 00-0037 EA 1-1/2" To 3" Diameter Worm Drive Hose Clamp.....	14.58	3.81
22 11 19 00-0038 Trap Primer And Accessories (22 11 19)		
22 11 19 00-0039 Trap Primer (22 11 19 00-0038)		
22 11 19 00-0040 EA 1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699).....	216.31	14.33
22 11 19 00-0041 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500).....	133.00	9.55
22 11 19 00-0042 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500).....	128.94	9.55
22 11 19 00-0043 Trap Primer Distribution Unit (22 11 19 00-0038)		
22 11 19 00-0044 EA Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U).....	116.47	19.11
Note: Can be used for two, three or four drains.		
22 11 19 00-0045 EA Copper Four Opening Trap Primer Distribution Unit (PPP DU-4).....	127.40	19.11
Note: Can be used for two, three or four drains.		
22 11 19 00-0046 Trap Primer Manifold (22 11 19 00-0038)		
22 11 19 00-0047 EA Two Outlet Manifold.....	174.31	25.71
22 11 19 00-0048 EA Four Outlet Manifold.....	261.64	29.24
22 11 19 00-0049 EA Six Outlet Manifold.....	346.60	30.96
22 11 19 00-0050 EA Eight Outlet Manifold.....	435.44	36.31
22 11 19 00-0051 Brass, Anti Siphon Vacuum Breakers (22 11 19)		
Note: Watts 288A		
22 11 19 00-0052 EA 1/2" Brass, Anti Siphon Vacuum Breaker.....	82.38	23.89
22 11 19 00-0053 EA 3/4" Brass, Anti Siphon Vacuum Breaker.....	94.39	26.75
22 11 19 00-0054 EA 1" Brass, Anti Siphon Vacuum Breaker.....	186.52	30.58
22 11 19 00-0055 EA 1-1/4" Brass, Anti Siphon Vacuum Breaker.....	292.95	35.35
22 11 19 00-0056 EA 1-1/2" Brass, Anti Siphon Vacuum Breaker.....	349.65	39.17
22 11 19 00-0057 EA 2" Brass, Anti Siphon Vacuum Breaker.....	508.79	47.77
22 11 19 00-0058 EA 2-1/2" Brass, Anti Siphon Vacuum Breaker.....	1,315.80	59.72
22 11 19 00-0059 Anti Siphon Pressure Vacuum Breakers (22 11 19)		
Note: Watts 800M4QT		
22 11 19 00-0060 EA 1/2" Anti Siphon Pressure Type Vacuum Breaker.....	228.96	23.89
22 11 19 00-0061 EA 3/4" Anti Siphon Pressure Type Vacuum Breaker.....	201.75	26.75
22 11 19 00-0062 EA 1" Anti Siphon Pressure Type Vacuum Breaker.....	286.23	30.58
22 11 19 00-0063 EA 1-1/4" Anti Siphon Pressure Type Vacuum Breaker.....	512.29	35.35
22 11 19 00-0064 EA 1-1/2" Anti Siphon Pressure Type Vacuum Breaker.....	623.38	39.17
22 11 19 00-0065 EA 2" Anti Siphon Pressure Type Vacuum Breaker.....	631.40	47.77



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT UNIT COST DEMOLITION UNIT COST

22 11 19 00-0066	Bellows Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0067	EA Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005).....	206.93	11.43
22 11 19 00-0068	EA >11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010).....	402.25	13.83
22 11 19 00-0069	EA >32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020).....	587.93	13.83
22 11 19 00-0070	EA >60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030).....	1,432.35	13.83
22 11 19 00-0071	EA >113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040).....	1,613.21	13.83
22 11 19 00-0072	EA >154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050).....	1,976.02	13.83
22 11 19 00-0073	Piston Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0074	Threaded Piston Type Water Hammer Arrestors (22 11 19 00-0073)		
22 11 19 00-0075	EA Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A).....	124.80	6.37
22 11 19 00-0076	EA >11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B).....	238.83	7.35
22 11 19 00-0077	EA >32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C).....	354.42	7.97
22 11 19 00-0078	EA >60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D).....	870.17	10.27
22 11 19 00-0079	EA >113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E).....	1,059.88	12.74
22 11 19 00-0080	EA >154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F).....	1,205.93	13.83
22 11 19 00-0081	Escutcheons (22 11 19)		
22 11 19 00-0082	Brass Escutcheons (22 11 19 00-0081)		
22 11 19 00-0083	Shallow Brass Escutcheons (22 11 19 00-0082)		
22 11 19 00-0084	EA 3/8" IPS, Antique Or Polished Brass Shallow Escutcheon.....	10.77	2.39
22 11 19 00-0085	EA 1/2" IPS, Antique Or Polished Brass Shallow Escutcheon.....	11.61	2.39
22 11 19 00-0086	Deep Bell Brass Escutcheons (22 11 19 00-0082)		
22 11 19 00-0087	EA 3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	12.69	2.68
22 11 19 00-0088	EA 1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	12.72	2.68
22 11 19 00-0089	Chrome Plated Brass Escutcheons With Setscrew (22 11 19 00-0082)		
22 11 19 00-0090	EA 3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	15.90	2.39
22 11 19 00-0091	EA 1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	16.05	2.39
22 11 19 00-0092	EA 5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	16.29	2.39
22 11 19 00-0093	EA 3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	17.13	2.39
22 11 19 00-0094	EA 7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	17.43	2.87
22 11 19 00-0095	EA 1" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	18.25	2.87
22 11 19 00-0096	EA 1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	18.98	3.16
22 11 19 00-0097	EA 1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	19.87	3.35
22 11 19 00-0098	EA 2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	28.17	3.82
22 11 19 00-0099	Plastic Escutcheons (22 11 19 00-0081)		
22 11 19 00-0100	Split-Ring White Plastic Escutcheons (22 11 19 00-0099)		
22 11 19 00-0101	EA 3/8" IPS, Split-Ring White Plastic Escutcheon.....	5.01	2.38
22 11 19 00-0102	EA 1/2" IPS, Split-Ring White Plastic Escutcheon.....	5.01	2.38
22 11 19 00-0103	EA 3/4" IPS, Split-Ring White Plastic Escutcheon.....	5.60	2.67
22 11 19 00-0104	EA 1" IPS, Split-Ring White Plastic Escutcheon.....	6.10	2.86
22 11 19 00-0105	EA 1-1/4" IPS, Split-Ring White Plastic Escutcheon.....	6.59	3.14
22 11 19 00-0106	EA 1-1/2" IPS, Split-Ring White Plastic Escutcheon.....	7.09	3.33
22 11 19 00-0107	EA 2" IPS, Split-Ring White Plastic Escutcheon.....	8.08	3.81
22 11 19 00-0108	EA 2-1/2" IPS, Split-Ring White Plastic Escutcheon.....	9.06	4.10
22 11 19 00-0109	EA 3" IPS, Split-Ring White Plastic Escutcheon.....	10.05	4.29
22 11 19 00-0110	EA 4" IPS, Split-Ring White Plastic Escutcheon.....	11.51	4.77
22 11 19 00-0111	Chrome Plate Plastic Escutcheons (22 11 19 00-0099)		
22 11 19 00-0112	EA 1/2" IPS, Chrome Plate Plastic Escutcheon.....	5.43	2.38
22 11 19 00-0113	EA 3/4" IPS, Chrome Plate Plastic Escutcheon.....	5.96	2.67
22 11 19 00-0114	EA 1" IPS, Chrome Plate Plastic Escutcheon.....	6.56	2.86
22 11 19 00-0115	EA 1-1/4" IPS, Chrome Plate Plastic Escutcheon.....	7.16	3.14
22 11 19 00-0116	EA 1-1/2" IPS, Chrome Plate Plastic Escutcheon.....	7.66	3.33
22 11 19 00-0117	EA 2" IPS, Chrome Plate Plastic Escutcheon.....	9.05	3.81
22 11 19 00-0118	EA 2-1/2" IPS, Chrome Plate Plastic Escutcheon.....	10.81	4.10



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0119	EA		3" IPS, Chrome Plate Plastic Escutcheon.....	11.34	4.29
22 11 19 00-0120	EA		4" IPS, Chrome Plate Plastic Escutcheon.....	12.40	4.77
22 11 19 00-0121			Stainless Steel Escutcheons (22 11 19 00-0081)		
22 11 19 00-0122			Shallow Stainless Steel Escutcheons (22 11 19 00-0121)		
22 11 19 00-0123	EA		3/8" IPS, Shallow Stainless Steel Escutcheon.....	12.01	2.39
22 11 19 00-0124	EA		1/2" IPS, Shallow Stainless Steel Escutcheon.....	12.01	2.39
22 11 19 00-0125	EA		3/4" IPS, Shallow Stainless Steel Escutcheon.....	16.41	2.68
22 11 19 00-0126			Chrome Plated Steel Escutcheons (22 11 19 00-0081)		
22 11 19 00-0127			Split-Ring Chrome Plated Steel Escutcheons (22 11 19 00-0126)		
22 11 19 00-0128	EA		1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	5.25	2.38
22 11 19 00-0129	EA		3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	5.72	2.67
22 11 19 00-0130	EA		1" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	6.29	2.86
22 11 19 00-0131	EA		1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	6.76	3.14
22 11 19 00-0132	EA		1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	7.24	3.33
22 11 19 00-0133	EA		2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	8.34	3.81
22 11 19 00-0134	EA		2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	12.04	4.10
22 11 19 00-0135	EA		3" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	12.78	4.29
22 11 19 00-0136	EA		3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	15.50	4.58
22 11 19 00-0137	EA		4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	13.97	4.77
22 11 19 00-0138	EA		5" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	17.73	5.24
22 11 19 00-0139	EA		6" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	20.55	5.72
22 11 19 00-0140			Split-Ring/Springs Chrome Plated Steel Escutcheons (22 11 19 00-0126)		
22 11 19 00-0141	EA		3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	7.95	2.38
22 11 19 00-0142	EA		1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	7.95	2.38
22 11 19 00-0143	EA		3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	8.52	2.67
22 11 19 00-0144	EA		1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	8.65	2.86
22 11 19 00-0145	EA		1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	10.18	3.14
22 11 19 00-0146	EA		1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	10.79	3.33
22 11 19 00-0147	EA		2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.75	3.81
22 11 19 00-0148	EA		2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	14.56	4.10
22 11 19 00-0149	EA		3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	17.59	4.29
22 11 19 00-0150	EA		3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	21.38	4.58
22 11 19 00-0151	EA		4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	21.76	4.77
22 11 19 00-0152	EA		5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	35.11	5.24
22 11 19 00-0153	EA		6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	36.72	5.72
22 11 19 00-0154			Deep Bell Chrome Plated Steel Escutcheons (22 11 19 00-0126)		
22 11 19 00-0155	EA		3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	6.35	2.68
22 11 19 00-0156	EA		1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	6.27	2.68
22 11 19 00-0157	EA		3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	6.11	2.68
22 11 19 00-0158	EA		1" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	6.73	2.87
22 11 19 00-0159	EA		1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.33	3.16
22 11 19 00-0160	EA		1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	8.03	3.35
22 11 19 00-0161			Shallow Chrome Plated Steel Escutcheons (22 11 19 00-0126)		
22 11 19 00-0162	EA		3/8" IPS, Shallow Chrome Plated Steel Escutcheon.....	5.79	2.39
22 11 19 00-0163	EA		1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	5.79	2.39
22 11 19 00-0164	EA		3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	5.87	2.39
22 11 19 00-0165	EA		1" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.26	2.87
22 11 19 00-0166	EA		1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.79	3.16
22 11 19 00-0167	EA		1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	7.49	3.35
22 11 19 00-0168	EA		2" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.49	3.82
22 11 19 00-0169			Wall Hydrants (22 11 19)		
			Note: Female inlet connection, 3/4" hose thread outlet.		
22 11 19 00-0170			Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker		
			Wall Hydrants (22 11 19 00-0169)		
			Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0171	EA		6" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	647.59	23.89
			For Cast Bronze Box, Add	32.92	
			For 1" NPT Outlet, Add	77.59	
22 11 19 00-0172	EA		12" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	682.92	28.66
			For Cast Bronze Box, Add	32.92	
			For 1" NPT Outlet, Add	77.59	
22 11 19 00-0173	EA		18" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	702.49	34.50
			For Cast Bronze Box, Add	32.92	
			For 1" NPT Outlet, Add	77.59	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 11 19 00-0174	Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants (22 11 19 00-0169) Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0175	EA Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	654.29	40.13
	For Cast Bronze Box, Add	32.92	
	For 1" NPT Outlet, Add	77.59	
22 11 19 00-0176	Cast Bronze Non-Freezing Wall Hydrant (22 11 19 00-0169) Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0177	EA 3" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	354.22	29.62
	For 1" NPT Outlet, Add	77.59	
22 11 19 00-0178	EA 4" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	437.57	29.62
	For 1" NPT Outlet, Add	77.59	
22 11 19 00-0179	EA 6" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	437.57	29.62
	For 1" NPT Outlet, Add	77.59	
22 11 19 00-0180	EA 8" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	437.57	29.62
	For 1" NPT Outlet, Add	77.59	
22 11 19 00-0181	EA 10" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	456.97	59.72
	For 1" NPT Outlet, Add	77.59	
22 11 19 00-0182	EA 12" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	456.97	59.72
	For 1" NPT Outlet, Add	77.59	
22 11 19 00-0183	EA 18" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	514.99	59.72
	For 1" NPT Outlet, Add	77.59	
22 11 19 00-0184	Stainless Steel Box Type Wall Hydrants (22 11 19 00-0169) Note: With 3/4" NPT female and 3/4" NPT male inlet connection.		
22 11 19 00-0185	EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140)	324.16	23.89
22 11 19 00-0186	EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141)	353.24	23.89
22 11 19 00-0187	EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150)	357.20	23.89
22 11 19 00-0188	EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151)	400.82	23.89
22 11 19 00-0189	EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145)	563.47	33.44
	Note: Includes hot and cold hose connections.		
22 11 19 00-0190	EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146)	580.65	33.44
	Note: Includes hot and cold hose connections.		
22 11 19 00-0191	EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155)	580.65	33.44
	Note: Includes hot and cold hose connections.		
22 11 19 00-0192	EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156)	621.63	33.44
	Note: Includes hot and cold hose connections.		
22 11 19 00-0193	Washer Boxes And Dryer Outlets (22 11 19)		
22 11 19 00-0194	Dryer Vent Kit (22 11 19 00-0193) Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.		
22 11 19 00-0195	EA Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps	66.67	12.42
22 11 19 00-0196	Washer Boxes And Dryer Vents (22 11 19 00-0193) Note: Includes 1/2" supply valves and mounting brackets.		
22 11 19 00-0197	EA 2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves	231.46	19.11
22 11 19 00-0198	Ice Maker Outlet Box (22 11 19) Note: Includes one 1/2" quarter turn ball valve and connections wall mount.		
22 11 19 00-0199	EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount	118.87	19.11
22 11 19 00-0200	EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount	146.20	19.11
22 11 19 00-0201	EA Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount	161.24	19.11
22 11 19 00-0202	Tempering Controllers For Potable Hot Water (22 11 19)		
22 11 19 00-0203	Point-Of-Use Thermostatic Mixing Valves (Bradley) (22 11 19 00-0202) Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.		
22 11 19 00-0204	EA 1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007)	330.24	22.41
22 11 19 00-0205	EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004)	162.36	22.41
22 11 19 00-0206	EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008)	191.48	22.41
22 11 19 00-0207	EA 3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016)	221.41	30.19
22 11 19 00-0208	Thermostatic Mixing Valves (Bradley) (22 11 19 00-0202) Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.		
22 11 19 00-0209	EA 3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025)	886.66	32.32
22 11 19 00-0210	EA 3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045)	996.48	39.81
22 11 19 00-0211	EA 1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080)	1,197.41	46.30
22 11 19 00-0212	EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130)	1,548.15	48.67
22 11 19 00-0213	EA 2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200)	2,077.68	63.14



Plumbing	22	22
Plumbing Piping	22 10	
Facility Water Distribution	22 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0214 High Low Temperature Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0202)</small>		
<small>Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.</small>		
22 11 19 00-0215 EA 3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045)	2,248.73	49.77
22 11 19 00-0216 EA 1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080)	2,924.38	57.88
22 11 19 00-0217 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130)	3,408.18	60.83
22 11 19 00-0218 EA 2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200)	3,779.86	78.92
22 11 19 00-0219 Thermostatic Mixing Valves (Leonard) <small>(22 11 19 00-0202)</small>		
<small>Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection</small>		
22 11 19 00-0220 EA 3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF)	646.44	32.32
22 11 19 00-0221 EA 1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF)	761.72	39.80
22 11 19 00-0222 EA 1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF)	935.20	46.30
22 11 19 00-0223 EA 1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF)	1,140.54	48.69
22 11 19 00-0224 EA 2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF)	1,691.10	63.14
22 11 19 00-0225 Water Mixing/Self Operating Temperature Regulator <small>(22 11 19 00-0202)</small>		
<small>Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.</small>		
22 11 19 00-0226 EA 3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	2,945.04	47.77
22 11 19 00-0227 EA 1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,113.42	60.21
22 11 19 00-0228 EA 1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,424.16	72.63
22 11 19 00-0229 EA 1-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,764.91	85.05
22 11 19 00-0230 EA 2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	4,486.01	111.80
22 11 19 00-0231 EA 2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	5,309.35	127.45
22 11 19 00-0232 Backflow Preventer Valves <small>(22 11 19)</small>		
22 11 19 00-0233 Double Check Valve Backflow Preventer Assemblies <small>(22 11 19 00-0232)</small>		
22 11 19 00-0234 Threaded Double Check Valve Assemblies <small>(22 11 19 00-0233)</small>		
22 11 19 00-0235 Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0234)</small>		
<small>Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).</small>		
22 11 19 00-0236 EA 1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series)	300.16	25.61
<i>For Work In Restricted Working Space, Add</i>	19.21	
<i>For Owner Furnished Material, Deduct</i>	-236.13	
22 11 19 00-0237 EA 3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series)	357.35	36.31
<i>For Work In Restricted Working Space, Add</i>	27.23	
<i>For Owner Furnished Material, Deduct</i>	-266.57	
22 11 19 00-0238 EA 1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series)	413.30	44.33
<i>For Work In Restricted Working Space, Add</i>	33.26	
<i>For Owner Furnished Material, Deduct</i>	-302.45	
22 11 19 00-0239 EA 1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series)	573.34	51.61
<i>For Work In Restricted Working Space, Add</i>	38.70	
<i>For Owner Furnished Material, Deduct</i>	-444.34	
22 11 19 00-0240 EA 1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series)	707.45	59.25
<i>For Work In Restricted Working Space, Add</i>	44.15	
<i>For Owner Furnished Material, Deduct</i>	-560.29	
22 11 19 00-0241 EA 2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series)	819.27	76.45
<i>For Work In Restricted Working Space, Add</i>	57.34	
<i>For Owner Furnished Material, Deduct</i>	-628.15	
22 11 19 00-0242 Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0234)</small>		
<small>Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).</small>		
22 11 19 00-0243 EA 1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)	367.73	25.61
<i>For Work In Restricted Working Space, Add</i>	19.21	
<i>For Owner Furnished Material, Deduct</i>	-303.70	
22 11 19 00-0244 EA 3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)	456.31	36.31
<i>For Work In Restricted Working Space, Add</i>	27.23	
<i>For Owner Furnished Material, Deduct</i>	-365.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0245 EA 1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	534.62	44.33
For Work In Restricted Working Space, Add	33.26	
For Owner Furnished Material, Deduct	-423.77	
22 11 19 00-0246 EA 1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	746.21	51.61
For Work In Restricted Working Space, Add	38.70	
For Owner Furnished Material, Deduct	-617.21	
22 11 19 00-0247 EA 1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	911.05	59.25
For Work In Restricted Working Space, Add	44.15	
For Owner Furnished Material, Deduct	-763.89	
22 11 19 00-0248 EA 2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,100.37	76.45
For Work In Restricted Working Space, Add	57.34	
For Owner Furnished Material, Deduct	-909.25	
22 11 19 00-0249 Flanged Double Check Valve Assemblies <small>(22 11 19 00-0233)</small>		
22 11 19 00-0250 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0249)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).		
22 11 19 00-0251 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)	3,822.93	211.10
For Work In Restricted Working Space, Add	84.44	
For Owner Furnished Material, Deduct	-3,541.47	
22 11 19 00-0252 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS).....	4,201.15	237.49
For Work In Restricted Working Space, Add	93.68	
For Owner Furnished Material, Deduct	-3,888.90	
22 11 19 00-0253 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0249)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).		
22 11 19 00-0254 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY)	4,182.89	211.10
For Work In Restricted Working Space, Add	84.44	
For Owner Furnished Material, Deduct	-3,901.43	
22 11 19 00-0255 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY)	4,801.09	237.49
For Work In Restricted Working Space, Add	93.68	
For Owner Furnished Material, Deduct	-4,488.84	
22 11 19 00-0256 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0249)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).		
22 11 19 00-0257 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	3,848.88	211.10
For Work In Restricted Working Space, Add	84.44	
For Owner Furnished Material, Deduct	-3,567.43	
22 11 19 00-0258 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	2,956.81	237.49
For Work In Restricted Working Space, Add	93.68	
For Owner Furnished Material, Deduct	-2,644.55	
22 11 19 00-0259 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	4,624.60	351.83
For Work In Restricted Working Space, Add	140.66	
For Owner Furnished Material, Deduct	-4,155.74	
22 11 19 00-0260 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	7,070.61	514.41
For Work In Restricted Working Space, Add	278.78	
For Owner Furnished Material, Deduct	-6,141.36	
22 11 19 00-0261 EA 8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	15,998.55	771.61
For Work In Restricted Working Space, Add	418.23	
For Owner Furnished Material, Deduct	-14,604.45	
22 11 19 00-0262 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	20,520.70	912.66
For Work In Restricted Working Space, Add	497.81	
For Owner Furnished Material, Deduct	-18,861.32	
22 11 19 00-0263 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer <small>(22 11 19 00-0249)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
22 11 19 00-0264 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA series)	5,384.78	351.83
For Work In Restricted Working Space, Add	140.64	
For Owner Furnished Material, Deduct	-4,915.97	
22 11 19 00-0265 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA series)	8,981.05	514.41
For Work In Restricted Working Space, Add	278.78	
For Owner Furnished Material, Deduct	-8,051.80	
22 11 19 00-0266 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA series)	23,779.91	912.66
For Work In Restricted Working Space, Add	497.81	
For Owner Furnished Material, Deduct	-22,120.53	
22 11 19 00-0267 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0249)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 19 00-0268	EA		2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) 4,084.38 <i>For Work In Restricted Working Space, Add</i> 84.44 <i>For Owner Furnished Material, Deduct</i> -3,802.93		211.10
	22 11 19 00-0269	EA		3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) 4,488.58 <i>For Work In Restricted Working Space, Add</i> 93.68 <i>For Owner Furnished Material, Deduct</i> -4,176.33		237.49
	22 11 19 00-0270	EA		4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) 4,900.34 <i>For Work In Restricted Working Space, Add</i> 140.64 <i>For Owner Furnished Material, Deduct</i> -4,431.53		351.83
	22 11 19 00-0271	EA		6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) 8,243.20 <i>For Work In Restricted Working Space, Add</i> 278.78 <i>For Owner Furnished Material, Deduct</i> -7,313.95		514.41
	22 11 19 00-0272	EA		8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) 16,972.15 <i>For Work In Restricted Working Space, Add</i> 418.16 <i>For Owner Furnished Material, Deduct</i> -15,578.27		771.61
	22 11 19 00-0273	EA		10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) 21,777.21 <i>For Work In Restricted Working Space, Add</i> 497.81 <i>For Owner Furnished Material, Deduct</i> -20,117.83		912.66
	22 11 19 00-0274			Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs ^(22 11 19 00-0249) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).		
	22 11 19 00-0275	EA		2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) 2,457.46 <i>For Work In Restricted Working Space, Add</i> 84.44 <i>For Owner Furnished Material, Deduct</i> -2,176.01		211.10
	22 11 19 00-0276	EA		3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) 2,705.99 <i>For Work In Restricted Working Space, Add</i> 93.68 <i>For Owner Furnished Material, Deduct</i> -2,393.74		237.49
	22 11 19 00-0277	EA		4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) 3,080.27 <i>For Work In Restricted Working Space, Add</i> 140.64 <i>For Owner Furnished Material, Deduct</i> -2,611.46		351.83
	22 11 19 00-0278	EA		6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) 5,012.64 <i>For Work In Restricted Working Space, Add</i> 278.78 <i>For Owner Furnished Material, Deduct</i> -4,083.39		514.41
	22 11 19 00-0279	EA		8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) 9,467.08 <i>For Work In Restricted Working Space, Add</i> 418.16 <i>For Owner Furnished Material, Deduct</i> -8,073.20		771.61
	22 11 19 00-0280	EA		10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) 10,298.27 <i>For Work In Restricted Working Space, Add</i> 497.81 <i>For Owner Furnished Material, Deduct</i> -8,638.89		912.66
	22 11 19 00-0281			N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs ^(22 11 19 00-0249) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).		
	22 11 19 00-0282	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series) 3,229.55 <i>For Work In Restricted Working Space, Add</i> 84.44 <i>For Owner Furnished Material, Deduct</i> -2,948.10		211.10
	22 11 19 00-0283	EA		3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series) 3,478.08 <i>For Work In Restricted Working Space, Add</i> 93.68 <i>For Owner Furnished Material, Deduct</i> -3,165.83		237.49
	22 11 19 00-0284	EA		4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY series) 4,370.47 <i>For Work In Restricted Working Space, Add</i> 140.64 <i>For Owner Furnished Material, Deduct</i> -3,901.66		351.83
	22 11 19 00-0285	EA		6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series) 7,172.48 <i>For Work In Restricted Working Space, Add</i> 278.78 <i>For Owner Furnished Material, Deduct</i> -6,243.23		514.41
	22 11 19 00-0286	EA		8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series) 12,668.19 <i>For Work In Restricted Working Space, Add</i> 418.16 <i>For Owner Furnished Material, Deduct</i> -11,274.31		771.61
	22 11 19 00-0287	EA		10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series) 15,075.13 <i>For Work In Restricted Working Space, Add</i> 497.81 <i>For Owner Furnished Material, Deduct</i> -13,415.75		912.66
	22 11 19 00-0288			Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves ^(22 11 19 00-0249) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).		
	22 11 19 00-0289	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) 2,303.89 <i>For Work In Restricted Working Space, Add</i> 84.44 <i>For Owner Furnished Material, Deduct</i> -2,022.44		211.10
	22 11 19 00-0290	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) 2,559.40 <i>For Work In Restricted Working Space, Add</i> 93.68 <i>For Owner Furnished Material, Deduct</i> -2,247.15		237.49

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0291	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,940.58 140.64 -2,471.77	351.83
22 11 19 00-0292	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,902.90 278.78 -3,973.65	514.41
22 11 19 00-0293	EA		8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	9,361.33 418.16 -7,967.45	771.61
22 11 19 00-0294	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	10,593.54 497.81 -8,934.16	912.66
22 11 19 00-0295			N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0249)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).		
22 11 19 00-0296	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,011.24 84.44 -2,729.79	211.10
22 11 19 00-0297	EA		3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,259.77 93.68 -2,947.52	237.49
22 11 19 00-0298	EA		4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,152.43 140.64 -3,683.62	351.83
22 11 19 00-0299	EA		6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,940.25 278.78 -6,011.00	514.41
22 11 19 00-0300	EA		8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	12,316.68 418.16 -10,922.80	771.61
22 11 19 00-0301	EA		10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	14,722.60 497.81 -13,063.22	912.66
22 11 19 00-0302			Double Check Valve Assemblies With Butterfly Shut-Off Valves <small>(22 11 19 00-0249)</small> Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).		
22 11 19 00-0303	EA		2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,667.08 84.44 -2,385.63	211.10
22 11 19 00-0304	EA		3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,915.61 93.68 -2,603.36	237.49
22 11 19 00-0305	EA		4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,289.89 140.64 -2,821.08	351.83
22 11 19 00-0306	EA		6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,227.54 278.78 -4,298.29	514.41
22 11 19 00-0307	EA		8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	9,681.98 418.16 -8,288.10	771.61
22 11 19 00-0308			N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs <small>(22 11 19 00-0249)</small> Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).		
22 11 19 00-0309	EA		2-1/2" N-Pattern Flanged Double Check Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,439.17 84.44 -3,157.72	211.10
22 11 19 00-0310	EA		3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,687.70 93.68 -3,375.45	237.49
22 11 19 00-0311	EA		4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,580.09 140.64 -4,111.28	351.83
22 11 19 00-0312	EA		6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	7,387.43 278.78 -6,458.18	514.41
22 11 19 00-0313	EA		8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	9,681.98 418.16 -8,288.10	771.61
22 11 19 00-0314			Grooved Double Check Valve Assemblies <small>(22 11 19 00-0233)</small>		
22 11 19 00-0315			Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0314)</small> Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
	22 11	19 00-0316	EA	2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,303.89 84.44 -2,022.44	112.58	
	22 11	19 00-0317	EA	3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,559.40 93.68 -2,247.15	124.90	
22 11	19 00-0318	N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0314)</small> Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).					
	22 11	19 00-0319	EA	2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,011.24 84.44 -2,729.79	112.58	
	22 11	19 00-0320	EA	3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,259.77 93.68 -2,947.52	124.90	
22 11	19 00-0321	Reduced Pressure Zone Backflow Preventer Assemblies <small>(22 11 19 00-0322)</small>					
22 11	19 00-0322	Threaded Reduced Pressure Zone Assemblies <small>(22 11 19 00-0321)</small>					
22 11	19 00-0323	Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0322)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).					
	22 11	19 00-0324	EA	1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	330.07 16.63 -274.64	22.17	
	22 11	19 00-0325	EA	3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	349.14 18.35 -287.98	24.46	
	22 11	19 00-0326	EA	1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	405.16 19.21 -341.13	25.61	
	22 11	19 00-0327	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	545.11 27.23 -454.33	36.31	
	22 11	19 00-0328	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	647.40 33.26 -536.55	44.33	
	22 11	19 00-0329	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	970.68 38.70 -841.68	51.61	
	22 11	19 00-0330	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,028.43 44.15 -881.27	59.25	
	22 11	19 00-0331	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,236.89 57.34 -1,045.77	76.45	
22 11	19 00-0332	Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0322)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).					
	22 11	19 00-0333	EA	1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	363.32 16.63 -307.89	22.17	
	22 11	19 00-0334	EA	3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	384.18 18.35 -323.02	24.46	
	22 11	19 00-0335	EA	1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	453.18 19.21 -389.15	36.31	
	22 11	19 00-0336	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	620.57 27.23 -529.79	36.31	
	22 11	19 00-0337	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	741.75 33.26 -630.90	44.33	
	22 11	19 00-0338	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,099.37 38.70 -970.37	51.61	
	22 11	19 00-0339	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,210.03 44.15 -1,062.87	59.25	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0340 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,459.69	76.45
For Work In Restricted Working Space, Add	57.34	
For Owner Furnished Material, Deduct	-1,268.57	
22 11 19 00-0341 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0322) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).		
22 11 19 00-0342 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	545.11	36.31
For Work In Restricted Working Space, Add	27.23	
For Owner Furnished Material, Deduct	-454.33	
22 11 19 00-0343 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	647.40	44.33
For Work In Restricted Working Space, Add	33.26	
For Owner Furnished Material, Deduct	-536.55	
22 11 19 00-0344 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	970.68	51.61
For Work In Restricted Working Space, Add	38.70	
For Owner Furnished Material, Deduct	-841.68	
22 11 19 00-0345 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,028.43	59.25
For Work In Restricted Working Space, Add	44.15	
For Owner Furnished Material, Deduct	-881.27	
22 11 19 00-0346 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,236.89	76.45
For Work In Restricted Working Space, Add	57.34	
For Owner Furnished Material, Deduct	-1,045.77	
22 11 19 00-0347 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0322) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).		
22 11 19 00-0348 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	620.57	36.31
For Work In Restricted Working Space, Add	27.23	
For Owner Furnished Material, Deduct	-529.79	
22 11 19 00-0349 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	741.75	44.33
For Work In Restricted Working Space, Add	33.26	
For Owner Furnished Material, Deduct	-630.90	
22 11 19 00-0350 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,099.37	51.61
For Work In Restricted Working Space, Add	38.70	
For Owner Furnished Material, Deduct	-970.37	
22 11 19 00-0351 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,210.03	59.25
For Work In Restricted Working Space, Add	44.15	
For Owner Furnished Material, Deduct	-1,062.87	
22 11 19 00-0352 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,459.69	76.45
For Work In Restricted Working Space, Add	57.34	
For Owner Furnished Material, Deduct	-1,268.57	
22 11 19 00-0353 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0322) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).		
22 11 19 00-0354 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	1,105.60	36.31
For Work In Restricted Working Space, Add	27.23	
For Owner Furnished Material, Deduct	-1,014.82	
22 11 19 00-0355 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	1,309.33	44.33
For Work In Restricted Working Space, Add	33.26	
For Owner Furnished Material, Deduct	-1,198.48	
22 11 19 00-0356 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	2,006.59	51.61
For Work In Restricted Working Space, Add	38.70	
For Owner Furnished Material, Deduct	-1,877.59	
22 11 19 00-0357 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	2,170.82	59.25
For Work In Restricted Working Space, Add	44.15	
For Owner Furnished Material, Deduct	-2,023.66	
22 11 19 00-0358 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT).....	2,522.30	76.45
For Work In Restricted Working Space, Add	57.34	
For Owner Furnished Material, Deduct	-2,331.18	
22 11 19 00-0359 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0322) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).		
22 11 19 00-0360 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....	1,482.83	36.31
For Work In Restricted Working Space, Add	27.23	
For Owner Furnished Material, Deduct	-1,392.05	
22 11 19 00-0361 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....	1,763.26	44.33
For Work In Restricted Working Space, Add	33.26	
For Owner Furnished Material, Deduct	-1,652.41	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0362	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	2,680.40	51.61
			<i>For Work In Restricted Working Space, Add</i>	38.70	
			<i>For Owner Furnished Material, Deduct</i>	-2,551.40	
22 11 19 00-0363	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	2,929.20	59.25
			<i>For Work In Restricted Working Space, Add</i>	44.15	
			<i>For Owner Furnished Material, Deduct</i>	-2,782.04	
22 11 19 00-0364	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	3,482.62	76.45
			<i>For Work In Restricted Working Space, Add</i>	57.34	
			<i>For Owner Furnished Material, Deduct</i>	-3,291.50	
22 11 19 00-0365			Flanged Reduced Pressure Zone Assemblies (22 11 19 00-0321)		
22 11 19 00-0366			Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0365)		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).		
22 11 19 00-0367	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	3,521.16	211.10
			<i>For Work In Restricted Working Space, Add</i>	84.44	
			<i>For Owner Furnished Material, Deduct</i>	-3,239.70	
22 11 19 00-0368	EA		3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	3,966.54	237.49
			<i>For Work In Restricted Working Space, Add</i>	93.68	
			<i>For Owner Furnished Material, Deduct</i>	-3,654.29	
22 11 19 00-0369			Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer (22 11 19 00-0365)		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).		
22 11 19 00-0370	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	4,185.58	211.10
			<i>For Work In Restricted Working Space, Add</i>	84.44	
			<i>For Owner Furnished Material, Deduct</i>	-3,904.12	
22 11 19 00-0371	EA		3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	4,738.41	237.49
			<i>For Work In Restricted Working Space, Add</i>	93.68	
			<i>For Owner Furnished Material, Deduct</i>	-4,426.16	
22 11 19 00-0372			Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0365)		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).		
22 11 19 00-0373	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	3,775.47	211.10
			<i>For Work In Restricted Working Space, Add</i>	84.44	
			<i>For Owner Furnished Material, Deduct</i>	-3,494.01	
22 11 19 00-0374	EA		3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	4,389.19	237.49
			<i>For Work In Restricted Working Space, Add</i>	93.68	
			<i>For Owner Furnished Material, Deduct</i>	-4,076.94	
22 11 19 00-0375			Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer (22 11 19 00-0365)		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)		
22 11 19 00-0376	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	4,185.58	211.10
			<i>For Work In Restricted Working Space, Add</i>	84.44	
			<i>For Owner Furnished Material, Deduct</i>	-3,904.12	
22 11 19 00-0377	EA		3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	4,738.41	237.49
			<i>For Work In Restricted Working Space, Add</i>	93.68	
			<i>For Owner Furnished Material, Deduct</i>	-4,426.16	
22 11 19 00-0378			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0365)		
			Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).		
22 11 19 00-0379	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	4,639.57	211.10
			<i>For Work In Restricted Working Space, Add</i>	84.44	
			<i>For Owner Furnished Material, Deduct</i>	-4,358.11	
22 11 19 00-0380	EA		3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	5,366.11	237.49
			<i>For Work In Restricted Working Space, Add</i>	93.68	
			<i>For Owner Furnished Material, Deduct</i>	-5,053.86	
22 11 19 00-0381			Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0365)		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0382 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	6,002.42	211.10
For Work In Restricted Working Space, Add	84.44	
For Owner Furnished Material, Deduct	-5,720.97	
22 11 19 00-0383 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	6,817.63	237.49
For Work In Restricted Working Space, Add	93.68	
For Owner Furnished Material, Deduct	-6,505.37	
22 11 19 00-0384 EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	8,601.25	351.83
For Work In Restricted Working Space, Add	140.66	
For Owner Furnished Material, Deduct	-8,132.39	
22 11 19 00-0385 EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	13,117.12	514.41
For Work In Restricted Working Space, Add	390.31	
For Owner Furnished Material, Deduct	-11,816.09	
22 11 19 00-0386 EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	21,712.34	771.61
For Work In Restricted Working Space, Add	585.47	
For Owner Furnished Material, Deduct	-19,760.79	
22 11 19 00-0387 EA 10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	27,832.11	912.66
For Work In Restricted Working Space, Add	497.81	
For Owner Furnished Material, Deduct	-26,172.73	
22 11 19 00-0388 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer (22 11 19 00-0365)		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).		
22 11 19 00-0389 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	6,463.57	211.10
For Work In Restricted Working Space, Add	84.44	
For Owner Furnished Material, Deduct	-6,182.12	
22 11 19 00-0390 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	7,302.95	237.49
For Work In Restricted Working Space, Add	93.68	
For Owner Furnished Material, Deduct	-6,990.70	
22 11 19 00-0391 EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	9,345.31	351.83
For Work In Restricted Working Space, Add	140.64	
For Owner Furnished Material, Deduct	-8,876.50	
22 11 19 00-0392 EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	14,145.94	514.41
For Work In Restricted Working Space, Add	278.78	
For Owner Furnished Material, Deduct	-13,216.69	
22 11 19 00-0393 EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	22,883.86	771.61
For Work In Restricted Working Space, Add	418.16	
For Owner Furnished Material, Deduct	-21,489.98	
22 11 19 00-0394 EA 10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	31,006.87	912.66
For Work In Restricted Working Space, Add	497.81	
For Owner Furnished Material, Deduct	-29,347.49	
22 11 19 00-0395 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0365)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).		
22 11 19 00-0396 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	6,382.08	211.10
For Work In Restricted Working Space, Add	84.44	
For Owner Furnished Material, Deduct	-6,100.63	
22 11 19 00-0397 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	7,252.82	237.49
For Work In Restricted Working Space, Add	93.68	
For Owner Furnished Material, Deduct	-6,940.56	
22 11 19 00-0398 EA 4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	9,142.09	351.83
For Work In Restricted Working Space, Add	140.66	
For Owner Furnished Material, Deduct	-8,673.23	
22 11 19 00-0399 EA 6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	13,533.76	514.41
For Work In Restricted Working Space, Add	278.78	
For Owner Furnished Material, Deduct	-12,604.51	
22 11 19 00-0400 EA 8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	22,472.67	771.61
For Work In Restricted Working Space, Add	418.16	
For Owner Furnished Material, Deduct	-21,078.79	
22 11 19 00-0401 EA 10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	29,575.98	912.66
For Work In Restricted Working Space, Add	497.81	
For Owner Furnished Material, Deduct	-27,916.60	
22 11 19 00-0402 Double Check Detector Assemblies (22 11 19 00-0232)		
22 11 19 00-0403 Flanged Double Check Detector Assemblies With Meter (22 11 19 00-0402)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0404 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter <small>(22 11 19 00-0403)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).		
22 11 19 00-0405 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)	4,810.09	237.49
For Work In Restricted Working Space, Add	93.68	
For Owner Furnished Material, Deduct	-4,497.84	
22 11 19 00-0406 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)	5,071.01	351.83
For Work In Restricted Working Space, Add	140.64	
For Owner Furnished Material, Deduct	-4,602.20	
22 11 19 00-0407 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)	6,905.37	514.41
For Work In Restricted Working Space, Add	278.78	
For Owner Furnished Material, Deduct	-5,976.12	
22 11 19 00-0408 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)	12,196.07	771.61
For Work In Restricted Working Space, Add	418.16	
For Owner Furnished Material, Deduct	-10,802.19	
22 11 19 00-0409 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)	16,422.32	912.66
For Work In Restricted Working Space, Add	497.81	
For Owner Furnished Material, Deduct	-14,762.94	
22 11 19 00-0410 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter <small>(22 11 19 00-0403)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).		
22 11 19 00-0411 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	3,613.62	211.10
For Work In Restricted Working Space, Add	84.44	
For Owner Furnished Material, Deduct	-3,332.16	
22 11 19 00-0412 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	3,861.91	237.49
For Work In Restricted Working Space, Add	93.68	
For Owner Furnished Material, Deduct	-3,549.66	
22 11 19 00-0413 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	4,241.34	351.83
For Work In Restricted Working Space, Add	140.64	
For Owner Furnished Material, Deduct	-3,772.53	
22 11 19 00-0414 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	5,827.84	514.41
For Work In Restricted Working Space, Add	278.78	
For Owner Furnished Material, Deduct	-4,898.59	
22 11 19 00-0415 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	10,248.53	771.61
For Work In Restricted Working Space, Add	418.16	
For Owner Furnished Material, Deduct	-8,854.65	
22 11 19 00-0416 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	12,088.97	912.66
For Work In Restricted Working Space, Add	497.81	
For Owner Furnished Material, Deduct	-10,429.59	
22 11 19 00-0417 Double Check Detector Assembly With Butterfly Valves And Meter <small>(22 11 19 00-0403)</small>		
Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).		
22 11 19 00-0418 EA 2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series)	3,823.28	211.10
For Work In Restricted Working Space, Add	84.44	
For Owner Furnished Material, Deduct	-3,541.82	
22 11 19 00-0419 EA 3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series)	4,071.58	237.49
For Work In Restricted Working Space, Add	93.68	
For Owner Furnished Material, Deduct	-3,759.33	
22 11 19 00-0420 EA 4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series)	4,450.97	351.83
For Work In Restricted Working Space, Add	140.64	
For Owner Furnished Material, Deduct	-3,982.16	
22 11 19 00-0421 EA 6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series)	6,042.75	514.41
For Work In Restricted Working Space, Add	278.78	
For Owner Furnished Material, Deduct	-5,113.50	
22 11 19 00-0422 EA 8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series)	9,990.69	771.61
For Work In Restricted Working Space, Add	418.16	
For Owner Furnished Material, Deduct	-8,596.81	
22 11 19 00-0423 Flanged Double Check Detector Assemblies Without Meter <small>(22 11 19 00-0402)</small>		
22 11 19 00-0424 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter <small>(22 11 19 00-0423)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).		

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0425	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	3,547.42	211.10
			<i>For Work In Restricted Working Space, Add</i>	84.44	
22 11 19 00-0426	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	3,795.74	237.49
			<i>For Work In Restricted Working Space, Add</i>	93.68	
22 11 19 00-0427	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	4,175.17	351.83
			<i>For Work In Restricted Working Space, Add</i>	140.64	
22 11 19 00-0428	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	5,761.67	514.41
			<i>For Work In Restricted Working Space, Add</i>	278.78	
22 11 19 00-0429	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	10,182.40	771.61
			<i>For Work In Restricted Working Space, Add</i>	418.16	
22 11 19 00-0430	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	12,022.75	912.66
			<i>For Work In Restricted Working Space, Add</i>	497.81	
22 11 19 00-0431			Double Check Detector Assembly With Butterfly Valves Less Meter <small>(22 11 19 00-0423)</small>		
			Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).		
22 11 19 00-0432	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	3,757.07	211.10
			<i>For Work In Restricted Working Space, Add</i>	84.44	
22 11 19 00-0433	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	4,005.36	237.49
			<i>For Work In Restricted Working Space, Add</i>	93.68	
22 11 19 00-0434	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	4,384.79	351.83
			<i>For Work In Restricted Working Space, Add</i>	140.64	
22 11 19 00-0435	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	5,976.53	514.41
			<i>For Work In Restricted Working Space, Add</i>	278.78	
22 11 19 00-0436	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	10,397.31	771.61
			<i>For Work In Restricted Working Space, Add</i>	418.16	
22 11 19 00-0437			Backflow Preventer Accessories <small>(22 11 19 00-0232)</small>		
22 11 19 00-0438			Air Gap <small>(22 11 19 00-0437)</small>		
22 11 19 00-0439	EA		Up To 1" Diameter Air Gap For Backflow Preventer	86.73	11.95
22 11 19 00-0440	EA		1-1/4" To 2" Diameter Air Gap For Backflow Preventer	106.57	14.33
22 11 19 00-0441	EA		2-1/2" To 3" Diameter Air Gap For Backflow Preventer	196.80	19.11
22 11 19 00-0442	EA		4" To 6" Diameter Air Gap For Backflow Preventer	387.43	33.44
22 11 19 00-0443	EA		8" To 10" Diameter Air Gap For Backflow Preventer	416.10	47.77
22 11 19 00-0444			Brass Test Cocks <small>(22 11 19 00-0437)</small>		
22 11 19 00-0445	EA		1/8" Or 1/4" Brass Test Cock	35.26	4.78
22 11 19 00-0446			Backflow Valve Enclosures <small>(22 11 19 00-0232)</small>		
22 11 19 00-0447			Flip-Top, Insulated Fiberglass Valve Enclosures <small>(22 11 19 00-0446)</small>		
			Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0448	EA		19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	768.40	86.00
			<i>For Heated Enclosure, Add</i>	93.76	
22 11 19 00-0449	EA		27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	943.30	86.00
			<i>For Heated Enclosure, Add</i>	120.00	
22 11 19 00-0450	EA		27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,193.50	79.17
			<i>For Heated Enclosure, Add</i>	159.23	
22 11 19 00-0451	EA		33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,242.03	105.55
			<i>For Heated Enclosure, Add</i>	159.92	
22 11 19 00-0452	EA		39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,301.35	105.55
			<i>For Heated Enclosure, Add</i>	168.82	
22 11 19 00-0453	EA		47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,532.52	105.55
			<i>For Heated Enclosure, Add</i>	203.49	
22 11 19 00-0454	EA		39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,538.60	105.55
			<i>For Heated Enclosure, Add</i>	204.40	
22 11 19 00-0455	EA		47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,932.50	105.55
			<i>For Heated Enclosure, Add</i>	263.49	
22 11 19 00-0456	EA		70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	4,444.71	158.32
			<i>For Heated Enclosure, Add</i>	627.13	
22 11 19 00-0457	EA		83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	6,432.48	158.32
			<i>For Heated Enclosure, Add</i>	925.29	
22 11 19 00-0458	EA		70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	6,113.10	158.32
			<i>For Heated Enclosure, Add</i>	877.38	
22 11 19 00-0459	EA		83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	7,360.08	184.71
			<i>For Heated Enclosure, Add</i>	1,057.83	
22 11 19 00-0460			One-Piece Drop Over, Insulated Fiberglass Valve Enclosures <small>(22 11 19 00-0446)</small>		
			Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0461	EA		20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	418.44	22.93
			<i>For Heated Enclosure, Add</i>	76.04	
22 11 19 00-0462	EA		27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	579.65	22.93
			<i>For Heated Enclosure, Add</i>	108.29	
22 11 19 00-0463	EA		38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	725.66	21.11
			<i>For Heated Enclosure, Add</i>	138.09	
22 11 19 00-0464	EA		47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	1,093.71	21.11
			<i>For Heated Enclosure, Add</i>	211.70	
22 11 19 00-0465	EA		70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	2,827.85	39.58
			<i>For Heated Enclosure, Add</i>	552.38	
22 11 19 00-0466	EA		83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	3,857.47	39.58
			<i>For Heated Enclosure, Add</i>	758.30	
22 11 19 00-0467	EA		45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	2,572.35	39.58
			<i>For Heated Enclosure, Add</i>	501.28	
22 11 19 00-0468	EA		53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	2,909.98	39.58
			<i>For Heated Enclosure, Add</i>	568.80	
22 11 19 00-0469	EA		61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	4,547.94	39.58
			<i>For Heated Enclosure, Add</i>	896.39	
22 11 19 00-0470			Sectional, Insulated Aluminum Valve Enclosures <small>(22 11 19 00-0466)</small>		
			Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0471	EA		70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	5,780.03	172.01
			<i>For Heated Enclosure, Add</i>	824.00	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	455.74	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	815.53	
22 11 19 00-0472	EA		83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	6,368.60	172.01
			<i>For Heated Enclosure, Add</i>	912.29	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	455.74	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	815.53	
22 11 19 00-0473	EA		53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	4,516.19	158.32
			<i>For Heated Enclosure, Add</i>	637.85	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	455.74	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	815.53	
22 11 19 00-0474	EA		53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	4,951.16	158.32
			<i>For Heated Enclosure, Add</i>	703.09	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	455.74	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	815.53	
22 11 19 00-0475	EA		90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	5,764.57	211.10
			<i>For Heated Enclosure, Add</i>	811.91	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	455.74	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	815.53	
22 11 19 00-0476	EA		102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	6,461.12	211.10
			<i>For Heated Enclosure, Add</i>	916.39	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	455.74	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	815.53	
22 11 19 00-0477	EA		90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	6,461.12	211.10
			<i>For Heated Enclosure, Add</i>	916.39	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	455.74	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	815.53	
22 11 19 00-0478	EA		102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	7,136.39	211.10
			<i>For Heated Enclosure, Add</i>	1,017.68	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	455.74	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	815.53	
22 11 19 00-0479	EA		62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure	5,361.67	184.71
			<i>For Heated Enclosure, Add</i>	758.07	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	455.74	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	815.53	
22 11 19 00-0480	EA		62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure	6,277.10	211.10
			<i>For Heated Enclosure, Add</i>	888.79	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	455.74	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	815.53	
22 11 19 00-0481	EA		105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure	7,331.06	211.10
			<i>For Heated Enclosure, Add</i>	1,046.88	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	455.74	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	815.53	
22 11 19 00-0482	EA		125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure	8,046.56	224.29
			<i>For Heated Enclosure, Add</i>	1,150.91	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	455.74	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	815.53	
22 11 19 00-0483	EA		105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure	8,253.76	243.68
			<i>For Heated Enclosure, Add</i>	1,177.15	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	455.74	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	815.53	
22 11 19 00-0484	EA		125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure	9,147.58	258.01
			<i>For Heated Enclosure, Add</i>	1,307.64	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	455.74	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	815.53	
22 11 19 00-0485	EA		105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure	9,461.66	237.49
			<i>For Heated Enclosure, Add</i>	1,359.88	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	455.74	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	815.53	
22 11 19 00-0486	EA		72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure	6,874.80	211.10
			<i>For Heated Enclosure, Add</i>	978.45	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	455.74	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	815.53	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0487	EA		72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	7,326.49 1,046.20 455.74 815.53	211.10
22 11 19 00-0488	EA		72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	8,288.38 1,187.18 455.74 815.53	224.29
22 11 19 00-0489	EA		72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	10,041.10 1,446.79 455.74 815.53	237.49
22 11 19 00-0490	EA		118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	8,765.10 1,255.39 455.74 815.53	105.55
22 11 19 00-0491	EA		142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	10,528.48 1,516.60 455.74 815.53	105.55
22 11 19 00-0492	EA		118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	10,180.20 1,464.36 455.74 815.53	158.32
22 11 19 00-0493	EA		142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	11,810.44 1,702.30 455.74 815.53	158.32
22 11 19 00-0494	EA		142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	10,898.73 1,568.84 455.74 815.53	158.32
22 11 19 00-0495	EA		172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	12,735.81 1,837.81 455.74 815.53	184.71
22 11 19 00-0496	EA		142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	12,779.79 1,837.81 455.74 815.53	158.32
22 11 19 00-0497	EA		172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	15,158.29 2,187.99 455.74 815.53	158.32
22 11 19 00-0498			Faucets (Hose Bibbs) (22 11 19)		
22 11 19 00-0499			Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends (22 11 19 00-0498)		
22 11 19 00-0500	EA		1/2", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	49.43	9.55
22 11 19 00-0501	EA		3/4" Faucet, Bronze Garden Hose Valve With Screwed Ends, 125#	57.43	10.51
22 11 19 00-0502	EA		3/4" Hose Valve With Screwed Ends And Vacuum Breaker, 125#	19.27	7.17
22 11 19 00-0503			Chrome Plated Brass Hose Valves, Screwed Ends (22 11 19 00-0498)		
22 11 19 00-0504	EA		3/4" Hose Valve With Screwed Ends; Chicago Faucets #387-CP	195.18	29.24
22 11 19 00-0505			Antisiphon Freezeless Wall Faucet (22 11 19 00-0498)		
22 11 19 00-0506	EA		4" Long, 1/2" Antisiphon Freezeless Wall Faucet	131.44	23.89
22 11 19 00-0507	EA		6" Long, 1/2" Antisiphon Freezeless Wall Faucet	141.75	26.47
22 11 19 00-0508	EA		8" Long, 1/2" Antisiphon Freezeless Wall Faucet	149.68	28.00
22 11 19 00-0509	EA		10" Long, 1/2" Antisiphon Freezeless Wall Faucet	157.58	30.00
22 11 19 00-0510	EA		12" Long, 1/2" Antisiphon Freezeless Wall Faucet	165.61	31.82
22 11 19 00-0511			Keyed, Recessed Valve Boxes (22 11 19)		
22 11 19 00-0512	EA		8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box	219.99	28.59
22 11 19 00-0513	EA		8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box	243.25	28.59
22 11 19 00-0514	EA		8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box	278.14	28.59
22 11 19 00-0515	EA		12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box	273.94	38.12
22 11 19 00-0516	EA		12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box	308.83	38.12
22 11 19 00-0517	EA		12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box	319.30	38.12
22 11 19 00-0518	EA		8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	257.20	28.59
22 11 19 00-0519	EA		8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	308.38	28.59
22 11 19 00-0520	EA		8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	353.73	28.59
22 11 19 00-0521	EA		12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	339.07	38.12
22 11 19 00-0522	EA		12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	384.42	38.12
22 11 19 00-0523	EA		12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	401.87	38.12

22 11 23 Domestic Water Pumps (22 11)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13 Domestic Water Packaged Booster Pumps And Tanks (22 11 23)		
Note: Includes motor starter and controls.		
22 11 23 13-0001 Simplex Domestic Water Packaged Booster Pumps And Tank (22 11 23 13)		
22 11 23 13-0002 EA 1 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	4,351.49	281.46
22 11 23 13-0003 EA 1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	4,649.06	378.21
22 11 23 13-0004 EA 2 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	4,974.48	474.97
22 11 23 13-0005 EA 3 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	5,285.98	571.72
22 11 23 13-0006 EA 5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	5,903.78	668.48
22 11 23 13-0007 EA 7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	6,591.20	765.23
22 11 23 13-0008 EA 10 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	7,111.55	861.99
22 11 23 13-0009 Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)		
22 11 23 13-0010 EA 100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	12,273.38	1,138.87
22 11 23 13-0011 EA 200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	14,546.05	1,210.04
22 11 23 13-0012 EA 300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	16,827.59	1,281.22
22 11 23 13-0013 Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)		
22 11 23 13-0014 EA 200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	15,732.99	1,210.04
22 11 23 13-0015 EA 300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	19,258.37	1,281.22
22 11 23 13-0016 EA 500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	23,689.53	1,423.58
22 11 23 13-0017 EA 750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	29,663.87	1,565.94
22 11 23 13-0018 EA 1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	35,638.22	1,708.30
22 11 23 13-0019 EA 1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	41,417.73	1,921.84
22 11 23 13-0020 EA 2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	47,197.24	2,135.38
22 11 23 13-0021 EA 3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	52,976.75	2,348.91
22 11 23 13-0022 EA 5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	58,934.20	2,633.62
22 11 23 23 Domestic-Water In-Line Pumps (22 11 23)		
22 11 23 23-0001 Bronze In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)		
Note: ODP motor.		
22 11 23 23-0002 EA 1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B)	703.76	158.32
22 11 23 23-0003 EA 1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B).....	719.90	158.32
22 11 23 23-0004 EA 1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B)	750.97	161.40
22 11 23 23-0005 EA 1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B)	821.78	168.00
22 11 23 23-0006 EA 1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B).....	1,387.41	168.80
22 11 23 23-0007 EA 1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB).....	1,473.87	168.80
22 11 23 23-0008 EA 1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB).....	2,166.73	185.86
22 11 23 23-0009 EA 1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB).....	2,265.09	204.18
22 11 23 23-0010 EA 1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB).....	2,730.12	224.64
22 11 23 23-0011 EA 1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S).....	2,799.95	247.23
22 11 23 23-0012 EA 3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S).....	3,062.65	271.53
22 11 23 23-0013 EA 1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S).....	4,339.92	298.82
22 11 23 23-0014 EA 1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S)	4,982.71	313.30
22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)		
Note: ODP motor.		
22 11 23 23-0016 EA 1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30)	729.14	158.32
22 11 23 23-0017 EA 1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36).....	1,156.90	158.32
22 11 23 23-0018 EA 1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	1,163.27	161.40
22 11 23 23-0019 EA 1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45).....	1,183.82	164.92
22 11 23 23-0020 EA 1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50).....	1,189.96	168.00
22 11 23 23-0021 EA 1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75).....	1,203.32	168.80
22 11 23 23-0022 EA 1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2).....	1,459.78	185.86
22 11 23 23-0023 EA 1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30).....	1,875.33	224.64
22 11 23 23-0024 EA 1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S).....	1,981.35	247.23
22 11 23 23-0025 EA 3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S).....	2,303.24	271.53
22 11 23 23-0026 EA 1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S).....	3,071.96	298.82
22 11 23 23-0027 EA 1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S).....	3,572.33	313.30
22 11 23 23-0028 EA 2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	3,232.74	329.08
22 11 23 23-0029 EA 3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	3,479.54	361.73
22 11 23 23-0030 EA 5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	3,822.78	383.64
22 11 23 23-0031 EA 7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	4,801.38	426.27
22 11 23 23-0032 EA 10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	5,124.97	511.60
22 11 23 23-0033 EA 15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	6,507.38	597.04
22 12 Facility Potable-Water Storage Tanks (22 10)		
22 12 19 Facility Ground-Mounted, Potable-Water Storage Tanks (22 12)		
22 12 19 00-0001 Steel, Horizontal, Ground-Mounted Water Tanks (22 12 19)		
22 12 19 00-0002 EA 5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	26,731.83	7,660.22
22 12 19 00-0003 EA 10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	29,638.50	7,660.22
22 12 19 00-0004 EA 20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	52,063.48	11,821.34

22 Plumbing**22 10 Plumbing Piping****22 12 Facility Potable-Water Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 19 00-0005 EA 35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	67,243.45	15,320.44
22 12 19 00-0006 Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)		
22 12 19 00-0007 EA 5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	31,038.01	7,660.22
22 12 19 00-0008 EA 10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	41,157.55	7,660.22
22 12 19 00-0009 EA 20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	61,724.96	11,821.34
22 12 19 00-0010 EA 35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	87,122.20	15,320.44
22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)		
22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)		
22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)		
22 12 23 13-0002 EA 80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A).....	1,916.96	351.83
22 12 23 13-0003 EA 119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M).....	2,375.68	439.78
22 12 23 13-0004 EA 140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A).....	4,314.41	483.76
22 12 23 13-0005 EA 200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A).....	4,769.70	527.74
22 12 23 13-0006 EA 250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A).....	9,372.30	571.72
22 12 23 13-0007 EA 350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A).....	8,102.22	615.70
22 12 23 13-0008 EA 400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A).....	13,822.99	659.68
22 12 23 13-0009 EA 500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A).....	12,758.88	703.66
22 12 23 13-0010 EA 750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A).....	13,857.02	747.63
22 12 23 13-0011 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A).....	16,489.19	791.61
22 12 23 13-0012 Uninsulated Glass Lined Storage Tank (A.O. Smith T) (22 12 23 13)		
22 12 23 13-0013 EA 80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....	1,651.36	351.83
22 12 23 13-0014 EA 120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S).....	3,123.77	439.78
22 12 23 13-0015 EA 140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A).....	3,892.00	483.76
22 12 23 13-0016 EA 200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....	4,795.84	527.74
22 12 23 13-0017 EA 200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A).....	4,090.10	527.74
22 12 23 13-0018 EA 250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A).....	6,273.10	571.72
22 12 23 13-0019 EA 325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A).....	6,788.53	615.70
22 12 23 13-0020 EA 350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S).....	6,467.93	615.70
22 12 23 13-0021 EA 350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A).....	5,913.33	615.70
22 12 23 13-0022 EA 400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A).....	8,052.06	659.68
22 12 23 13-0023 EA 500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A).....	8,732.40	703.66
22 12 23 13-0024 EA 750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A).....	10,123.42	747.63
22 12 23 13-0025 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A).....	18,863.90	791.61
22 12 23 26 Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks (22 12 23)		
22 12 23 26-0001 Horizontal Non-Pressurized Polyethylene Tanks (22 12 23 26)		
Note: Excludes excavation and backfill.		
22 12 23 26-0002 EA 100 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	486.51	197.91
For Saddle Assembly, Add	534.69	
22 12 23 26-0003 EA 150 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	569.55	230.89
For Saddle Assembly, Add	534.69	
22 12 23 26-0004 EA 200 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	672.13	263.87
For Saddle Assembly, Add	601.09	
22 12 23 26-0005 EA 300 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	809.86	296.85
For Saddle Assembly, Add	860.21	
22 12 23 26-0006 EA 335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	961.90	329.84
For Two Tie Down Bands, Add	313.90	
22 12 23 26-0007 EA 535 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,239.28	440.30
For Two Tie Down Bands, Add	332.13	
22 12 23 26-0008 EA 1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,802.31	513.68
For Three Tie Down Bands, Add	556.80	
22 12 23 26-0009 EA 1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	2,547.05	587.07
For Three Tie Down Bands, Add	560.70	
22 12 23 26-0010 EA 1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	3,153.99	660.44
For Four Tie Down Bands, Add	758.02	
22 12 23 26-0011 EA 2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	3,680.82	733.83
For Four Tie Down Bands, Add	1,023.65	
22 12 23 26-0012 EA 2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	5,177.79	807.22
For Four Tie Down Bands, Add	1,315.31	
22 12 23 26-0013 EA 3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	5,978.75	880.59
For Four Tie Down Bands, Add	1,414.27	
22 12 23 26-0014 EA 4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	8,556.42	1,174.12
For Four Tie Down Bands, Add	1,586.14	
22 12 23 26-0015 EA 5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	10,949.51	1,174.12
For Five Tie Down Bands, Add	2,457.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 12 23 26-0016 Vertical Non-Pressurized Polyethylene Tanks (22 12 23 26)

22 12 23 26-0017	EA	100 Gallon Vertical Non-Pressurized Polyethylene Tank	548.43	263.87
22 12 23 26-0018	EA	160 Gallon Vertical Non-Pressurized Polyethylene Tank	647.24	280.36
22 12 23 26-0019	EA	210 Gallon Vertical Non-Pressurized Polyethylene Tank	706.99	296.85
22 12 23 26-0020	EA	300 Gallon Vertical Non-Pressurized Polyethylene Tank	846.01	329.84
22 12 23 26-0021	EA	405 Gallon Vertical Non-Pressurized Polyethylene Tank	971.73	395.81
22 12 23 26-0022	EA	500 Gallon Vertical Non-Pressurized Polyethylene Tank	1,145.63	461.78
22 12 23 26-0023	EA	800 Gallon Vertical Non-Pressurized Polyethylene Tank	1,569.20	587.07
22 12 23 26-0024	EA	1,000 Gallon Vertical Non-Pressurized Polyethylene Tank	2,022.69	733.83
22 12 23 26-0025	EA	2,000 Gallon Vertical Non-Pressurized Polyethylene Tank	2,681.90	880.59
22 12 23 26-0026	EA	3,000 Gallon Vertical Non-Pressurized Polyethylene Tank	3,463.53	1,027.36
22 12 23 26-0027	EA	4,000 Gallon Vertical Non-Pressurized Polyethylene Tank	4,978.21	1,174.12
22 12 23 26-0028	EA	5,000 Gallon Vertical Non-Pressurized Polyethylene Tank	6,646.54	1,320.90
22 12 23 26-0029	EA	6,250 Gallon Vertical Non-Pressurized Polyethylene Tank	7,524.52	1,467.66
22 12 23 26-0030	EA	7,000 Gallon Vertical Non-Pressurized Polyethylene Tank	8,290.51	1,614.43
22 12 23 26-0031	EA	8,000 Gallon Vertical Non-Pressurized Polyethylene Tank	9,517.44	1,761.19
22 12 23 26-0032	EA	9,150 Gallon Vertical Non-Pressurized Polyethylene Tank	10,722.24	1,907.95
22 12 23 26-0033	EA	10,500 Gallon Vertical Non-Pressurized Polyethylene Tank	13,163.99	2,054.73
22 12 23 26-0034	EA	12,500 Gallon Vertical Non-Pressurized Polyethylene Tank	15,794.93	2,348.26

22 13 Facility Sanitary Sewerage (22 10)

22 13 16 Sanitary Waste And Vent Piping (22 13)

22 13 16 00-0001 Cast Iron Soil Pipe Assemblies (22 13 16)

22 13 16 00-0002 Underground Bell And Spigot Cast Iron Soil Pipe Assemblies (22 13 16 00-0001)

Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.

22 13 16 00-0003	LF	2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	27.38	5.54
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>				
			4.07	
22 13 16 00-0004	LF	3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	39.09	8.35
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>				
			5.51	
22 13 16 00-0005	LF	4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	50.71	10.65
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>				
			7.09	
22 13 16 00-0006	LF	5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	59.16	12.94
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>				
			7.28	
22 13 16 00-0007	LF	6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	69.46	14.11
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>				
			8.09	
22 13 16 00-0008	LF	8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	110.04	20.05
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>				
			11.35	
22 13 16 00-0009	LF	10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	161.28	20.05
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>				
			12.85	

22 13 16 00-0010 Aboveground No Hub Cast Iron Soil Pipe Assemblies (22 13 16 00-0001)

Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.

22 13 16 00-0011	LF	1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly	23.45	5.27
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>				
			4.63	
22 13 16 00-0012	LF	2" Aboveground No Hub Cast Iron Soil Pipe Assembly	24.93	5.62
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>				
			4.98	
22 13 16 00-0013	LF	3" Aboveground No Hub Cast Iron Soil Pipe Assembly	31.83	8.18
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>				
			6.11	
22 13 16 00-0014	LF	4" Aboveground No Hub Cast Iron Soil Pipe Assembly	37.85	10.65
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>				
			7.30	
22 13 16 00-0015	LF	5" Aboveground No Hub Cast Iron Soil Pipe Assembly	48.51	12.70
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
<i>For Work In Restricted Working Space, Add</i>				
			8.62	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0016	LF		6" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	54.57 9.39	13.86
22 13 16 00-0017	LF		8" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	83.91 12.94	19.88
22 13 16 00-0018	LF		10" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 20'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	116.12 15.04	22.59
22 13 16 00-0019			Bell And Spigot Cast Iron Soil Pipe And Fittings (22 13 16) Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).		
22 13 16 00-0020			Bell And Spigot Cast Iron Pipe (22 13 16 00-0019) Note: Excludes excavation, hangers, gaskets, and fittings.		
22 13 16 00-0021	LF		2" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.45 4.65 0.42 2.51	5.54
22 13 16 00-0022	LF		3" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.44 6.67 0.63 3.77	8.35
22 13 16 00-0023	LF		4" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.63 8.67 0.80 4.80	10.65
22 13 16 00-0024	LF		5" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	48.48 12.23 0.97 5.81	12.94
22 13 16 00-0025	LF		6" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	56.59 14.90 1.06 6.34	14.11
22 13 16 00-0026	LF		8" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.24 23.17 1.50 9.02	20.05
22 13 16 00-0027	LF		10" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.68 38.57 1.69 10.16	22.59
22 13 16 00-0028	LF		12" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	178.53 56.03 2.26 13.54	30.12
22 13 16 00-0029	LF		15" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	249.13 81.89 2.71 16.25	36.12
22 13 16 00-0030			Bell And Spigot Cast Iron Fittings (22 13 16 00-0019)		
22 13 16 00-0031			Bell And Spigot Cast Iron Long Sweeps (22 13 16 00-0030)		
22 13 16 00-0032	EA		2" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.11 17.60 1.89 11.35	25.25
22 13 16 00-0033	EA		3" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	149.55 35.70 2.38 14.26	31.76
22 13 16 00-0034	EA		4" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	199.25 47.59 3.16 18.98	42.22
22 13 16 00-0035	EA		6" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	311.01 80.13 4.10 24.62	54.76
22 13 16 00-0036	EA		8" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	616.35 178.71 5.29 31.73	70.56
22 13 16 00-0037	EA		10" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	843.31 249.60 6.51 39.05	86.81



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 16 00-0038	EA		12" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,293.52 389.15 9.08 54.50	121.15
	22 13 16 00-0039	EA		15" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,403.36 752.65 12.65 75.88	168.71
22 13 16 00-0040	Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)					
	22 13 16 00-0041	EA		2" Bell And Spigot Cast Iron Short Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.83 12.95 1.89 11.35	25.25
	22 13 16 00-0042	EA		3" Bell And Spigot Cast Iron Short Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	127.27 27.91 2.38 14.26	31.76
	22 13 16 00-0043	EA		4" Bell And Spigot Cast Iron Short Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	174.20 38.82 3.16 18.98	42.22
	22 13 16 00-0044	EA		5" Bell And Spigot Cast Iron Short Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	261.55 67.13 3.49 20.93	46.55
	22 13 16 00-0045	EA		6" Bell And Spigot Cast Iron Short Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	315.78 81.80 4.10 24.62	54.76
	22 13 16 00-0046	EA		8" Bell And Spigot Cast Iron Short Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	520.34 145.10 5.29 31.73	70.56
	22 13 16 00-0047	EA		10" Bell And Spigot Cast Iron Short Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	761.39 220.93 6.51 39.05	86.81
	22 13 16 00-0048	EA		12" Bell And Spigot Cast Iron Short Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,262.97 378.46 9.08 54.50	121.15
22 13 16 00-0049	Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)					
	22 13 16 00-0050	EA		2" Bell And Spigot Cast Iron 1/4 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	67.30 10.34 1.89 11.33	25.15
	22 13 16 00-0051	EA		3" Bell And Spigot Cast Iron 1/4 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	101.54 20.67 2.12 12.75	28.32
	22 13 16 00-0052	EA		4" Bell And Spigot Cast Iron 1/4 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	145.20 31.02 2.83 16.97	37.73
	22 13 16 00-0053	EA		5" Bell And Spigot Cast Iron 1/4 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	181.33 41.67 3.11 18.68	41.57
	22 13 16 00-0054	EA		6" Bell And Spigot Cast Iron 1/4 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	218.11 50.20 3.73 22.41	49.78
	22 13 16 00-0055	EA		8" Bell And Spigot Cast Iron 1/4 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	453.28 124.56 4.87 29.22	64.97
	22 13 16 00-0056	EA		10" Bell And Spigot Cast Iron 1/4 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	668.83 192.72 5.91 35.46	78.85
	22 13 16 00-0057	EA		12" Bell And Spigot Cast Iron 1/4 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	882.02 259.86 6.98 41.87	93.07
	22 13 16 00-0058	EA		15" Bell And Spigot Cast Iron 1/4 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,255.83 712.53 11.00 66.01	146.79
22 13 16 00-0059	Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)					



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0060 EA 2" Bell And Spigot Cast Iron 1/8 Bend	61.42	25.25
For Extra Heavy Fittings, Add	8.26	
For Above Ground Cast Iron Pipe Installation, Add	1.89	
For Work In Restricted Working Space, Add	11.35	
22 13 16 00-0061 EA 3" Bell And Spigot Cast Iron 1/8 Bend	96.23	31.76
For Extra Heavy Fittings, Add	17.04	
For Above Ground Cast Iron Pipe Installation, Add	2.38	
For Work In Restricted Working Space, Add	14.26	
22 13 16 00-0062 EA 4" Bell And Spigot Cast Iron 1/8 Bend	137.15	42.22
For Extra Heavy Fittings, Add	25.85	
For Above Ground Cast Iron Pipe Installation, Add	3.16	
For Work In Restricted Working Space, Add	18.98	
22 13 16 00-0063 EA 5" Bell And Spigot Cast Iron 1/8 Bend	171.10	52.02
For Extra Heavy Fittings, Add	32.60	
For Above Ground Cast Iron Pipe Installation, Add	3.90	
For Work In Restricted Working Space, Add	23.39	
22 13 16 00-0064 EA 6" Bell And Spigot Cast Iron 1/8 Bend	197.92	58.00
For Extra Heavy Fittings, Add	38.82	
For Above Ground Cast Iron Pipe Installation, Add	4.35	
For Work In Restricted Working Space, Add	26.10	
22 13 16 00-0065 EA 8" Bell And Spigot Cast Iron 1/8 Bend	394.21	77.83
For Extra Heavy Fittings, Add	97.13	
For Above Ground Cast Iron Pipe Installation, Add	5.83	
For Work In Restricted Working Space, Add	35.01	
22 13 16 00-0066 EA 10" Bell And Spigot Cast Iron 1/8 Bend	551.62	96.03
For Extra Heavy Fittings, Add	142.67	
For Above Ground Cast Iron Pipe Installation, Add	7.20	
For Work In Restricted Working Space, Add	43.20	
22 13 16 00-0067 EA 12" Bell And Spigot Cast Iron 1/8 Bend	891.99	124.54
For Extra Heavy Fittings, Add	246.87	
For Above Ground Cast Iron Pipe Installation, Add	9.33	
For Work In Restricted Working Space, Add	56.00	
22 13 16 00-0068 EA 15" Bell And Spigot Cast Iron 1/8 Bend	1,711.28	146.79
For Extra Heavy Fittings, Add	521.94	
For Above Ground Cast Iron Pipe Installation, Add	11.00	
For Work In Restricted Working Space, Add	66.01	
22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)	107.27	56.38
22 13 16 00-0070 EA 2" Bell And Spigot Cast Iron Wye	107.27	56.38
For Extra Heavy Fittings, Add	7.95	
For Above Ground Cast Iron Pipe Installation, Add	4.23	
For Work In Restricted Working Space, Add	25.37	
22 13 16 00-0071 EA 3" Bell And Spigot Cast Iron Wye	135.10	61.75
For Extra Heavy Fittings, Add	14.88	
For Above Ground Cast Iron Pipe Installation, Add	4.63	
For Work In Restricted Working Space, Add	27.78	
22 13 16 00-0072 EA 4" Bell And Spigot Cast Iron Wye	177.87	80.92
For Extra Heavy Fittings, Add	19.80	
For Above Ground Cast Iron Pipe Installation, Add	6.06	
For Work In Restricted Working Space, Add	36.39	
22 13 16 00-0073 EA 5" Bell And Spigot Cast Iron Wye	228.53	89.53
For Extra Heavy Fittings, Add	33.00	
For Above Ground Cast Iron Pipe Installation, Add	6.71	
For Work In Restricted Working Space, Add	40.28	
22 13 16 00-0074 EA 6" Bell And Spigot Cast Iron Wye	286.85	106.11
For Extra Heavy Fittings, Add	44.71	
For Above Ground Cast Iron Pipe Installation, Add	7.96	
For Work In Restricted Working Space, Add	47.74	
22 13 16 00-0075 EA 8" Bell And Spigot Cast Iron Wye	526.33	142.13
For Extra Heavy Fittings, Add	109.63	
For Above Ground Cast Iron Pipe Installation, Add	10.66	
For Work In Restricted Working Space, Add	63.93	
22 13 16 00-0076 EA 10" Bell And Spigot Cast Iron Wye	738.88	161.25
For Extra Heavy Fittings, Add	174.00	
For Above Ground Cast Iron Pipe Installation, Add	12.09	
For Work In Restricted Working Space, Add	72.52	
22 13 16 00-0077 EA 12" Bell And Spigot Cast Iron Wye	1,094.06	196.28
For Extra Heavy Fittings, Add	279.93	
For Above Ground Cast Iron Pipe Installation, Add	14.71	
For Work In Restricted Working Space, Add	88.28	
22 13 16 00-0078 EA 15" Bell And Spigot Cast Iron Wye	1,699.68	220.23
For Extra Heavy Fittings, Add	479.33	
For Above Ground Cast Iron Pipe Installation, Add	16.51	
For Work In Restricted Working Space, Add	99.05	
22 13 16 00-0079 Bell And Spigot Cast Iron Reducing Wyes (22 13 16 00-0030)	170.01	58.93
22 13 16 00-0080 EA 3" x 2" Bell And Spigot Cast Iron Reducing Wye	170.01	58.93
For Extra Heavy Fittings, Add	28.57	
For Above Ground Cast Iron Pipe Installation, Add	4.42	
For Work In Restricted Working Space, Add	26.51	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0081	EA		4" x 2" Bell And Spigot Cast Iron Reducing Wye	206.91	72.83
			<i>For Extra Heavy Fittings, Add</i>	34.18	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.46	
			<i>For Work In Restricted Working Space, Add</i>	32.77	
22 13 16 00-0082	EA		4" x 3" Bell And Spigot Cast Iron Reducing Wye	230.93	74.68
			<i>For Extra Heavy Fittings, Add</i>	41.62	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.60	
			<i>For Work In Restricted Working Space, Add</i>	33.61	
22 13 16 00-0083	EA		6" x 2" Bell And Spigot Cast Iron Reducing Wye	340.67	95.09
			<i>For Extra Heavy Fittings, Add</i>	69.36	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.12	
			<i>For Work In Restricted Working Space, Add</i>	42.75	
22 13 16 00-0084	EA		6" x 3" Bell And Spigot Cast Iron Reducing Wye	349.51	96.83
			<i>For Extra Heavy Fittings, Add</i>	71.51	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.26	
			<i>For Work In Restricted Working Space, Add</i>	43.56	
22 13 16 00-0085	EA		6" x 4" Bell And Spigot Cast Iron Reducing Wye	365.80	103.29
			<i>For Extra Heavy Fittings, Add</i>	73.82	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.74	
			<i>For Work In Restricted Working Space, Add</i>	46.46	
22 13 16 00-0086	EA		8" x 2" Bell And Spigot Cast Iron Reducing Wye	538.93	114.30
			<i>For Extra Heavy Fittings, Add</i>	128.65	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.57	
			<i>For Work In Restricted Working Space, Add</i>	51.41	
22 13 16 00-0087	EA		8" x 3" Bell And Spigot Cast Iron Reducing Wye	563.43	116.50
			<i>For Extra Heavy Fittings, Add</i>	136.08	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.73	
			<i>For Work In Restricted Working Space, Add</i>	52.39	
22 13 16 00-0088	EA		8" x 4" Bell And Spigot Cast Iron Reducing Wye	576.93	122.00
			<i>For Extra Heavy Fittings, Add</i>	137.90	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.15	
			<i>For Work In Restricted Working Space, Add</i>	54.88	
22 13 16 00-0089	EA		8" x 6" Bell And Spigot Cast Iron Reducing Wye	681.96	135.71
			<i>For Extra Heavy Fittings, Add</i>	167.46	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.18	
			<i>For Work In Restricted Working Space, Add</i>	61.05	
22 13 16 00-0090	EA		10" x 3" Bell And Spigot Cast Iron Reducing Wye	842.29	127.16
			<i>For Extra Heavy Fittings, Add</i>	228.07	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.53	
			<i>For Work In Restricted Working Space, Add</i>	57.20	
22 13 16 00-0091	EA		10" x 4" Bell And Spigot Cast Iron Reducing Wye	876.18	132.75
			<i>For Extra Heavy Fittings, Add</i>	236.99	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.95	
			<i>For Work In Restricted Working Space, Add</i>	59.72	
22 13 16 00-0092	EA		10" x 6" Bell And Spigot Cast Iron Reducing Wye	958.48	146.79
			<i>For Extra Heavy Fittings, Add</i>	258.46	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.00	
			<i>For Work In Restricted Working Space, Add</i>	66.01	
22 13 16 00-0093	EA		10" x 8" Bell And Spigot Cast Iron Reducing Wye	1,268.64	155.68
			<i>For Extra Heavy Fittings, Add</i>	362.34	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.67	
			<i>For Work In Restricted Working Space, Add</i>	70.02	
22 13 16 00-0094	EA		12" x 4" Bell And Spigot Cast Iron Reducing Wye	1,305.92	155.68
			<i>For Extra Heavy Fittings, Add</i>	375.39	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.67	
			<i>For Work In Restricted Working Space, Add</i>	70.02	
22 13 16 00-0095	EA		12" x 6" Bell And Spigot Cast Iron Reducing Wye	1,358.95	168.71
			<i>For Extra Heavy Fittings, Add</i>	387.11	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.65	
			<i>For Work In Restricted Working Space, Add</i>	75.88	
22 13 16 00-0096	EA		12" x 8" Bell And Spigot Cast Iron Reducing Wye	1,596.54	177.07
			<i>For Extra Heavy Fittings, Add</i>	465.89	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.27	
			<i>For Work In Restricted Working Space, Add</i>	79.63	
22 13 16 00-0097	EA		12" x 10" Bell And Spigot Cast Iron Reducing Wye	1,941.84	182.32
			<i>For Extra Heavy Fittings, Add</i>	583.97	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.67	
			<i>For Work In Restricted Working Space, Add</i>	82.01	
22 13 16 00-0098	EA		15" x 4" Bell And Spigot Cast Iron Reducing Wye	3,215.34	171.92
			<i>For Extra Heavy Fittings, Add</i>	1,035.16	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.89	
			<i>For Work In Restricted Working Space, Add</i>	77.33	
22 13 16 00-0099	EA		15" x 6" Bell And Spigot Cast Iron Reducing Wye	3,355.49	186.05
			<i>For Extra Heavy Fittings, Add</i>	1,076.78	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.95	
			<i>For Work In Restricted Working Space, Add</i>	83.70	
22 13 16 00-0100	EA		15" x 8" Bell And Spigot Cast Iron Reducing Wye	3,424.11	194.08
			<i>For Extra Heavy Fittings, Add</i>	1,096.59	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.55	
			<i>For Work In Restricted Working Space, Add</i>	87.30	
22 13 16 00-0101	EA		15" x 10" Bell And Spigot Cast Iron Reducing Wye	3,503.78	200.68
			<i>For Extra Heavy Fittings, Add</i>	1,121.04	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.04	
			<i>For Work In Restricted Working Space, Add</i>	90.25	

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0102 EA 15" x 12" Bell And Spigot Cast Iron Reducing Wye	3,592.09	212.36
For Extra Heavy Fittings, Add	1,145.81	
For Above Ground Cast Iron Pipe Installation, Add	15.92	
For Work In Restricted Working Space, Add	95.51	
22 13 16 00-0103 Bell And Spigot Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0104 EA 2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	116.99	56.38
For Extra Heavy Fittings, Add	11.35	
For Above Ground Cast Iron Pipe Installation, Add	4.23	
For Work In Restricted Working Space, Add	25.37	
22 13 16 00-0105 EA 3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	141.10	61.75
For Extra Heavy Fittings, Add	16.98	
For Above Ground Cast Iron Pipe Installation, Add	4.63	
For Work In Restricted Working Space, Add	27.78	
22 13 16 00-0106 EA 4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	188.29	80.92
For Extra Heavy Fittings, Add	23.45	
For Above Ground Cast Iron Pipe Installation, Add	6.06	
For Work In Restricted Working Space, Add	36.39	
22 13 16 00-0107 EA 5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	262.17	93.92
For Extra Heavy Fittings, Add	42.49	
For Above Ground Cast Iron Pipe Installation, Add	7.04	
For Work In Restricted Working Space, Add	42.23	
22 13 16 00-0108 EA 6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	328.34	116.49
For Extra Heavy Fittings, Add	53.81	
For Above Ground Cast Iron Pipe Installation, Add	8.73	
For Work In Restricted Working Space, Add	52.38	
22 13 16 00-0109 EA 8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	603.67	153.05
For Extra Heavy Fittings, Add	130.98	
For Above Ground Cast Iron Pipe Installation, Add	11.47	
For Work In Restricted Working Space, Add	68.83	
22 13 16 00-0110 EA 10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	871.77	200.68
For Extra Heavy Fittings, Add	199.83	
For Above Ground Cast Iron Pipe Installation, Add	15.04	
For Work In Restricted Working Space, Add	90.25	
22 13 16 00-0111 EA 12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	1,169.18	257.96
For Extra Heavy Fittings, Add	273.84	
For Above Ground Cast Iron Pipe Installation, Add	19.34	
For Work In Restricted Working Space, Add	116.03	
22 13 16 00-0112 Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0113 EA 3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	124.76	58.93
For Extra Heavy Fittings, Add	12.73	
For Above Ground Cast Iron Pipe Installation, Add	4.42	
For Work In Restricted Working Space, Add	26.51	
22 13 16 00-0114 EA 4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	176.06	72.83
For Extra Heavy Fittings, Add	23.39	
For Above Ground Cast Iron Pipe Installation, Add	5.46	
For Work In Restricted Working Space, Add	32.77	
22 13 16 00-0115 EA 4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	190.21	74.68
For Extra Heavy Fittings, Add	27.37	
For Above Ground Cast Iron Pipe Installation, Add	5.60	
For Work In Restricted Working Space, Add	33.61	
22 13 16 00-0116 EA 6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	282.27	95.09
For Extra Heavy Fittings, Add	48.92	
For Above Ground Cast Iron Pipe Installation, Add	7.12	
For Work In Restricted Working Space, Add	42.75	
22 13 16 00-0117 EA 6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	294.08	96.83
For Extra Heavy Fittings, Add	52.11	
For Above Ground Cast Iron Pipe Installation, Add	7.26	
For Work In Restricted Working Space, Add	43.56	
22 13 16 00-0118 EA 6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	311.71	103.29
For Extra Heavy Fittings, Add	54.89	
For Above Ground Cast Iron Pipe Installation, Add	7.74	
For Work In Restricted Working Space, Add	46.46	
22 13 16 00-0119 EA 8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	430.46	114.30
For Extra Heavy Fittings, Add	90.69	
For Above Ground Cast Iron Pipe Installation, Add	8.57	
For Work In Restricted Working Space, Add	51.41	
22 13 16 00-0120 EA 8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	442.04	122.00
For Extra Heavy Fittings, Add	90.69	
For Above Ground Cast Iron Pipe Installation, Add	9.15	
For Work In Restricted Working Space, Add	54.88	
22 13 16 00-0121 EA 8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	559.21	135.71
For Extra Heavy Fittings, Add	124.50	
For Above Ground Cast Iron Pipe Installation, Add	10.18	
For Work In Restricted Working Space, Add	61.05	
22 13 16 00-0122 Bell And Spigot Cast Iron Double Wyes (22 13 16 00-0030)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0123	EA		2" Bell And Spigot Cast Iron Double Wye.....	190.75	67.46
			<i>For Extra Heavy Fittings, Add</i>	31.38	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.06	
			<i>For Work In Restricted Working Space, Add</i>	30.33	
22 13 16 00-0124	EA		3" Bell And Spigot Cast Iron Double Wye.....	277.99	85.05
			<i>For Extra Heavy Fittings, Add</i>	52.68	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.37	
			<i>For Work In Restricted Working Space, Add</i>	38.24	
22 13 16 00-0125	EA		4" Bell And Spigot Cast Iron Double Wye.....	377.44	107.57
			<i>For Extra Heavy Fittings, Add</i>	75.64	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.07	
			<i>For Work In Restricted Working Space, Add</i>	48.40	
22 13 16 00-0126	EA		6" Bell And Spigot Cast Iron Double Wye.....	723.83	163.03
			<i>For Extra Heavy Fittings, Add</i>	167.79	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.22	
			<i>For Work In Restricted Working Space, Add</i>	73.33	
22 13 16 00-0127	EA		8" Bell And Spigot Cast Iron Double Wye.....	1,454.92	192.14
			<i>For Extra Heavy Fittings, Add</i>	408.42	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.40	
			<i>For Work In Restricted Working Space, Add</i>	86.41	
22 13 16 00-0128	EA		10" Bell And Spigot Cast Iron Double Wye.....	1,929.92	214.98
			<i>For Extra Heavy Fittings, Add</i>	562.66	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.12	
			<i>For Work In Restricted Working Space, Add</i>	96.69	
22 13 16 00-0129	EA		12" Bell And Spigot Cast Iron Double Wye.....	1,333.17	257.96
			<i>For Extra Heavy Fittings, Add</i>	331.24	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	19.34	
			<i>For Work In Restricted Working Space, Add</i>	116.03	
22 13 16 00-0130	EA		15" Bell And Spigot Cast Iron Double Wye.....	3,780.29	270.74
			<i>For Extra Heavy Fittings, Add</i>	1,180.96	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	20.31	
			<i>For Work In Restricted Working Space, Add</i>	121.84	
22 13 16 00-0131 Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)					
22 13 16 00-0132	EA		3" x 2" Bell And Spigot Cast Iron Reducing Double Wye.....	172.54	79.78
			<i>For Extra Heavy Fittings, Add</i>	18.52	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.98	
			<i>For Work In Restricted Working Space, Add</i>	35.89	
22 13 16 00-0133	EA		4" x 2" Bell And Spigot Cast Iron Reducing Double Wye.....	200.52	91.65
			<i>For Extra Heavy Fittings, Add</i>	22.08	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.87	
			<i>For Work In Restricted Working Space, Add</i>	41.23	
22 13 16 00-0134	EA		4" x 3" Bell And Spigot Cast Iron Reducing Double Wye.....	217.29	96.14
			<i>For Extra Heavy Fittings, Add</i>	25.58	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.21	
			<i>For Work In Restricted Working Space, Add</i>	43.26	
22 13 16 00-0135	EA		6" x 2" Bell And Spigot Cast Iron Reducing Double Wye.....	278.61	113.08
			<i>For Extra Heavy Fittings, Add</i>	38.18	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.48	
			<i>For Work In Restricted Working Space, Add</i>	50.86	
22 13 16 00-0136	EA		6" x 3" Bell And Spigot Cast Iron Reducing Double Wye.....	295.46	117.40
			<i>For Extra Heavy Fittings, Add</i>	41.81	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.80	
			<i>For Work In Restricted Working Space, Add</i>	52.80	
22 13 16 00-0137	EA		6" x 4" Bell And Spigot Cast Iron Reducing Double Wye.....	340.28	128.02
			<i>For Extra Heavy Fittings, Add</i>	51.92	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.60	
			<i>For Work In Restricted Working Space, Add</i>	57.58	
22 13 16 00-0138	EA		8" x 4" Bell And Spigot Cast Iron Reducing Double Wye.....	551.32	148.06
			<i>For Extra Heavy Fittings, Add</i>	115.29	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.10	
			<i>For Work In Restricted Working Space, Add</i>	66.58	
22 13 16 00-0139	EA		8" x 6" Bell And Spigot Cast Iron Reducing Double Wye.....	599.84	175.21
			<i>For Extra Heavy Fittings, Add</i>	117.98	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.14	
			<i>For Work In Restricted Working Space, Add</i>	78.83	
22 13 16 00-0140	EA		10" x 4" Bell And Spigot Cast Iron Reducing Double Wye.....	587.28	158.38
			<i>For Extra Heavy Fittings, Add</i>	122.43	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.87	
			<i>For Work In Restricted Working Space, Add</i>	71.25	
22 13 16 00-0141	EA		10" x 6" Bell And Spigot Cast Iron Reducing Double Wye.....	684.36	186.05
			<i>For Extra Heavy Fittings, Add</i>	141.88	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.95	
			<i>For Work In Restricted Working Space, Add</i>	83.70	
22 13 16 00-0142	EA		10" x 8" Bell And Spigot Cast Iron Reducing Double Wye.....	844.57	202.79
			<i>For Extra Heavy Fittings, Add</i>	189.18	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.20	
			<i>For Work In Restricted Working Space, Add</i>	91.22	
22 13 16 00-0143	EA		12" x 6" Bell And Spigot Cast Iron Reducing Double Wye.....	862.65	207.45
			<i>For Extra Heavy Fittings, Add</i>	193.06	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.55	
			<i>For Work In Restricted Working Space, Add</i>	93.32	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0144	EA		12" x 8" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,104.57 268.15 16.92 101.53	225.72
22 13 16 00-0145			Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>		
22 13 16 00-0146	EA		2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	158.62 20.13 5.06 30.33	67.46
22 13 16 00-0147	EA		3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	213.65 27.42 6.77 40.60	90.24
22 13 16 00-0148	EA		4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	279.38 38.58 8.46 50.75	112.85
22 13 16 00-0149	EA		6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	614.90 119.60 13.66 81.95	182.20
22 13 16 00-0150			Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>		
22 13 16 00-0151	EA		3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.21 31.82 6.06 36.39	80.92
22 13 16 00-0152	EA		4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	251.98 40.09 6.87 41.23	91.65
22 13 16 00-0153	EA		4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	282.93 45.50 7.65 45.88	102.03
22 13 16 00-0154	EA		6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	568.58 127.68 10.19 61.13	135.90
22 13 16 00-0155			Bell And Spigot Cast Iron Sanitary Tees <small>(22 13 16 00-0030)</small>		
22 13 16 00-0156	EA		2" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	129.48 15.69 4.23 25.40	56.47
22 13 16 00-0157	EA		3" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	147.33 19.16 4.63 27.78	61.75
22 13 16 00-0158	EA		4" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	238.04 43.60 5.67 34.04	75.64
22 13 16 00-0159	EA		5" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	345.97 77.62 6.21 37.26	82.80
22 13 16 00-0160	EA		6" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	415.04 93.15 7.45 44.67	99.32
22 13 16 00-0161	EA		8" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	895.42 245.25 9.74 58.42	129.87
22 13 16 00-0162	EA		10" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,347.29 388.43 11.87 71.25	158.38
22 13 16 00-0163	EA		12" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,012.59 606.76 13.95 83.70	186.05
22 13 16 00-0164			Bell And Spigot Cast Iron Reducing Sanitary Tees <small>(22 13 16 00-0030)</small>		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0165	EA			3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	174.26 30.06 4.42 26.51	58.93
22 13 16 00-0166	EA			4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	206.34 36.00 5.17 31.04	69.04
22 13 16 00-0167	EA			4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	216.25 39.47 5.17 31.04	69.04
22 13 16 00-0168	EA			6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	327.46 64.74 7.12 42.75	95.09
22 13 16 00-0169	EA			6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	341.02 68.54 7.26 43.56	96.83
22 13 16 00-0170	EA			6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	370.05 75.31 7.74 46.46	103.29
22 13 16 00-0171	EA			8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	633.08 157.55 9.15 54.88	122.00
22 13 16 00-0172	EA			8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	795.68 207.26 10.18 61.05	135.71
22 13 16 00-0173 Bell And Spigot Cast Iron Vent Tees (22 13 16 00-0030)						
22 13 16 00-0174	EA			2" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	110.76 9.17 4.23 25.37	56.38
22 13 16 00-0175	EA			3" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	138.17 15.95 4.63 27.78	61.75
22 13 16 00-0176	EA			4" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	183.06 21.62 6.06 36.39	80.92
22 13 16 00-0177	EA			5" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	232.91 32.25 7.04 42.23	93.92
22 13 16 00-0178	EA			6" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	293.33 41.55 8.73 52.38	116.49
22 13 16 00-0179	EA			8" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	505.71 96.69 11.47 68.83	153.05
22 13 16 00-0180 Bell And Spigot Cast Iron Tapped Sanitary Tees (22 13 16 00-0030)						
22 13 16 00-0181	EA			2" Bell And Spigot Cast Iron Tapped Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.83 10.24 4.23 25.37	56.38
22 13 16 00-0182	EA			3" Bell And Spigot Cast Iron Tapped Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.67 11.58 4.63 27.78	61.75
22 13 16 00-0183	EA			4" Bell And Spigot Cast Iron Tapped Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.06 14.27 6.06 36.39	80.92
22 13 16 00-0184 Bell And Spigot Cast Iron Tapped Sanitary Crosses (22 13 16 00-0030)						
22 13 16 00-0185	EA			2" Bell And Spigot Cast Iron Tapped Sanitary Cross <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	115.76 10.92 4.23 25.37	56.38
22 13 16 00-0186	EA			3" Bell And Spigot Cast Iron Tapped Sanitary Cross <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	129.35 12.87 4.63 27.78	61.75

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0187 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Cross	171.31	80.92
For Extra Heavy Fittings, Add	17.51	
For Above Ground Cast Iron Pipe Installation, Add	6.06	
For Work In Restricted Working Space, Add	36.39	
22 13 16 00-0188 Bell And Spigot Cast Iron Reducers (22 13 16 00-0030)		
22 13 16 00-0189 EA 3" x 2" Bell And Spigot Cast Iron Reducer	64.10	31.76
For Extra Heavy Fittings, Add	5.80	
For Above Ground Cast Iron Pipe Installation, Add	2.38	
For Work In Restricted Working Space, Add	14.26	
22 13 16 00-0190 EA 4" x 2" Bell And Spigot Cast Iron Reducer	80.15	41.87
For Extra Heavy Fittings, Add	6.06	
For Above Ground Cast Iron Pipe Installation, Add	3.14	
For Work In Restricted Working Space, Add	18.85	
22 13 16 00-0191 EA 4" x 3" Bell And Spigot Cast Iron Reducer	85.79	42.22
For Extra Heavy Fittings, Add	7.88	
For Above Ground Cast Iron Pipe Installation, Add	3.16	
For Work In Restricted Working Space, Add	18.98	
22 13 16 00-0192 EA 6" x 2" Bell And Spigot Cast Iron Reducer	108.13	50.28
For Extra Heavy Fittings, Add	11.45	
For Above Ground Cast Iron Pipe Installation, Add	3.77	
For Work In Restricted Working Space, Add	22.63	
22 13 16 00-0193 EA 6" x 3" Bell And Spigot Cast Iron Reducer	113.18	50.95
For Extra Heavy Fittings, Add	12.87	
For Above Ground Cast Iron Pipe Installation, Add	3.82	
For Work In Restricted Working Space, Add	22.93	
22 13 16 00-0194 EA 6" x 4" Bell And Spigot Cast Iron Reducer	116.84	52.02
For Extra Heavy Fittings, Add	13.61	
For Above Ground Cast Iron Pipe Installation, Add	3.90	
For Work In Restricted Working Space, Add	23.39	
22 13 16 00-0195 EA 8" x 2" Bell And Spigot Cast Iron Reducer	152.14	53.60
For Extra Heavy Fittings, Add	25.12	
For Above Ground Cast Iron Pipe Installation, Add	4.02	
For Work In Restricted Working Space, Add	24.11	
22 13 16 00-0196 EA 8" x 3" Bell And Spigot Cast Iron Reducer	171.33	65.91
For Extra Heavy Fittings, Add	25.38	
For Above Ground Cast Iron Pipe Installation, Add	4.94	
For Work In Restricted Working Space, Add	29.64	
22 13 16 00-0197 EA 8" x 4" Bell And Spigot Cast Iron Reducer	175.85	67.60
For Extra Heavy Fittings, Add	26.06	
For Above Ground Cast Iron Pipe Installation, Add	5.07	
For Work In Restricted Working Space, Add	30.42	
22 13 16 00-0198 EA 8" x 6" Bell And Spigot Cast Iron Reducer	181.59	70.56
For Extra Heavy Fittings, Add	26.54	
For Above Ground Cast Iron Pipe Installation, Add	5.29	
For Work In Restricted Working Space, Add	31.73	
22 13 16 00-0199 EA 10" x 4" Bell And Spigot Cast Iron Reducer	227.28	79.19
For Extra Heavy Fittings, Add	37.99	
For Above Ground Cast Iron Pipe Installation, Add	5.94	
For Work In Restricted Working Space, Add	35.63	
22 13 16 00-0200 EA 10" x 6" Bell And Spigot Cast Iron Reducer	239.64	83.17
For Extra Heavy Fittings, Add	40.22	
For Above Ground Cast Iron Pipe Installation, Add	6.24	
For Work In Restricted Working Space, Add	37.42	
22 13 16 00-0201 EA 10" x 8" Bell And Spigot Cast Iron Reducer	255.44	86.81
For Extra Heavy Fittings, Add	43.85	
For Above Ground Cast Iron Pipe Installation, Add	6.51	
For Work In Restricted Working Space, Add	39.05	
22 13 16 00-0202 EA 12" x 4" Bell And Spigot Cast Iron Reducer	318.18	94.08
For Extra Heavy Fittings, Add	62.01	
For Above Ground Cast Iron Pipe Installation, Add	7.05	
For Work In Restricted Working Space, Add	42.30	
22 13 16 00-0203 EA 12" x 6" Bell And Spigot Cast Iron Reducer	354.58	110.07
For Extra Heavy Fittings, Add	66.33	
For Above Ground Cast Iron Pipe Installation, Add	8.25	
For Work In Restricted Working Space, Add	49.52	
22 13 16 00-0204 EA 12" x 8" Bell And Spigot Cast Iron Reducer	383.12	125.38
For Extra Heavy Fittings, Add	68.29	
For Above Ground Cast Iron Pipe Installation, Add	9.40	
For Work In Restricted Working Space, Add	56.40	
22 13 16 00-0205 EA 12" x 10" Bell And Spigot Cast Iron Reducer	419.32	144.42
For Extra Heavy Fittings, Add	70.98	
For Above Ground Cast Iron Pipe Installation, Add	10.83	
For Work In Restricted Working Space, Add	64.96	
22 13 16 00-0206 EA 15" x 6" Bell And Spigot Cast Iron Reducer	550.55	144.42
For Extra Heavy Fittings, Add	116.91	
For Above Ground Cast Iron Pipe Installation, Add	10.83	
For Work In Restricted Working Space, Add	64.96	
22 13 16 00-0207 EA 15" x 8" Bell And Spigot Cast Iron Reducer	585.68	155.68
For Extra Heavy Fittings, Add	123.30	
For Above Ground Cast Iron Pipe Installation, Add	11.67	
For Work In Restricted Working Space, Add	70.02	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0208	EA		15" x 10" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	609.74 127.26 12.31 73.84	164.13
22 13 16 00-0209	EA		15" x 12" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	642.36 132.86 13.14 78.83	175.21
22 13 16 00-0210 Bell And Spigot Cast Iron P-Traps (22 13 16 00-0030)					
22 13 16 00-0211	EA		2" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	66.14 9.91 1.89 11.35	25.25
22 13 16 00-0212	EA		3" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.73 14.42 2.38 14.26	31.76
22 13 16 00-0213	EA		4" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	120.99 20.20 3.16 18.98	42.22
22 13 16 00-0214	EA		5" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	193.48 43.30 3.49 20.93	46.55
22 13 16 00-0215	EA		6" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	260.25 62.36 4.10 24.62	54.76
22 13 16 00-0216	EA		8" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	581.39 166.47 5.29 31.73	70.56
22 13 16 00-0217	EA		10" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	644.01 179.85 6.51 39.05	86.81
22 13 16 00-0218 Bell And Spigot Cast Iron Deep Seal P-Traps (22 13 16 00-0030)					
22 13 16 00-0219	EA		2" Bell And Spigot Cast Iron Deep Seal P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	76.90 13.67 1.89 11.35	25.25
22 13 16 00-0220	EA		3" Bell And Spigot Cast Iron Deep Seal P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	109.87 21.82 2.38 14.26	31.76
22 13 16 00-0221	EA		4" Bell And Spigot Cast Iron Deep Seal P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	160.29 33.95 3.16 18.98	42.22
22 13 16 00-0222	EA		5" Bell And Spigot Cast Iron Deep Seal P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	263.82 65.05 3.90 23.39	52.02
22 13 16 00-0223	EA		6" Bell And Spigot Cast Iron Deep Seal P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	279.80 67.48 4.35 26.10	58.00
22 13 16 00-0224 Bell And Spigot Cast Iron Running Traps With Single Vent (22 13 16 00-0030)					
22 13 16 00-0225	EA		3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	177.16 4.63 27.78	60.95
22 13 16 00-0226	EA		4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	236.40 6.06 36.39	80.13
22 13 16 00-0227	EA		5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	319.88 6.83 40.98	90.35
22 13 16 00-0228	EA		6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	648.26 7.74 46.46	102.39
22 13 16 00-0229	EA		8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,141.65 9.15 54.88	120.64
22 13 16 00-0230	EA		8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,318.62 10.18 61.05	134.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0231 Bell And Spigot Cast Running Traps With Double Vent (22 13 16 00-0030)		
22 13 16 00-0232 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent.....	226.27	84.18
For Above Ground Cast Iron Pipe Installation, Add	6.37	
For Work In Restricted Working Space, Add	38.24	
22 13 16 00-0233 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent.....	309.54	106.25
For Above Ground Cast Iron Pipe Installation, Add	8.07	
For Work In Restricted Working Space, Add	48.40	
22 13 16 00-0234 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent.....	721.74	126.53
For Above Ground Cast Iron Pipe Installation, Add	9.60	
For Work In Restricted Working Space, Add	57.58	
22 13 16 00-0235 EA 6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent.....	836.68	153.16
For Above Ground Cast Iron Pipe Installation, Add	11.60	
For Work In Restricted Working Space, Add	69.63	
22 13 16 00-0236 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent.....	2,305.54	146.28
For Above Ground Cast Iron Pipe Installation, Add	11.10	
For Work In Restricted Working Space, Add	66.58	
22 13 16 00-0237 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent.....	2,529.02	173.69
For Above Ground Cast Iron Pipe Installation, Add	13.14	
For Work In Restricted Working Space, Add	78.83	
22 13 16 00-0238 EA 10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent.....	3,365.84	200.43
For Above Ground Cast Iron Pipe Installation, Add	15.20	
For Work In Restricted Working Space, Add	91.22	
22 13 16 00-0239 EA 12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent.....	4,661.96	231.74
For Above Ground Cast Iron Pipe Installation, Add	17.55	
For Work In Restricted Working Space, Add	105.32	
22 13 16 00-0240 EA 15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent.....	9,088.53	268.03
For Above Ground Cast Iron Pipe Installation, Add	20.31	
For Work In Restricted Working Space, Add	121.88	
22 13 16 00-0241 Bell And Spigot Cast Iron Scission Joint Fittings (22 13 16 00-0030)		
22 13 16 00-0242 EA 2" Bell And Spigot Cast Iron Scission Joint Fitting.....	138.79	
For Above Ground Cast Iron Pipe Installation, Add	1.89	
For Work In Restricted Working Space, Add	11.32	
22 13 16 00-0243 EA 3" Bell And Spigot Cast Iron Scission Joint Fitting.....	191.91	
For Above Ground Cast Iron Pipe Installation, Add	2.12	
For Work In Restricted Working Space, Add	12.72	
22 13 16 00-0244 EA 4" Bell And Spigot Cast Iron Scission Joint Fitting.....	221.22	
For Above Ground Cast Iron Pipe Installation, Add	2.84	
For Work In Restricted Working Space, Add	17.04	
22 13 16 00-0245 EA 5" Bell And Spigot Cast Iron Scission Joint Fitting.....	273.40	
For Above Ground Cast Iron Pipe Installation, Add	3.30	
For Work In Restricted Working Space, Add	19.79	
22 13 16 00-0246 EA 6" Bell And Spigot Cast Iron Scission Joint Fitting.....	332.03	
For Above Ground Cast Iron Pipe Installation, Add	3.98	
For Work In Restricted Working Space, Add	23.91	
22 13 16 00-0247 EA 8" Bell And Spigot Cast Iron Scission Joint Fitting.....	631.40	
For Above Ground Cast Iron Pipe Installation, Add	5.04	
For Work In Restricted Working Space, Add	30.22	
22 13 16 00-0248 Cut And Prepare Existing In-Place Cast Iron Pipe (22 13 16 00-0019)		
Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0249 EA 2", Cut And Prepare Existing In-Place Cast Iron Pipe.....	10.51	
For Above Ground Cast Iron Pipe Installation, Add	0.53	
For Work In Restricted Working Space, Add	3.15	
22 13 16 00-0250 EA 3", Cut And Prepare Existing In-Place Cast Iron Pipe.....	11.47	
For Above Ground Cast Iron Pipe Installation, Add	0.57	
For Work In Restricted Working Space, Add	3.44	
22 13 16 00-0251 EA 4", Cut And Prepare Existing In-Place Cast Iron Pipe.....	14.33	
For Above Ground Cast Iron Pipe Installation, Add	0.72	
For Work In Restricted Working Space, Add	4.30	
22 13 16 00-0252 EA 6", Cut And Prepare Existing In-Place Cast Iron Pipe.....	17.20	
For Above Ground Cast Iron Pipe Installation, Add	0.86	
For Work In Restricted Working Space, Add	5.16	
22 13 16 00-0253 EA 8", Cut And Prepare Existing In-Place Cast Iron Pipe.....	22.93	
For Above Ground Cast Iron Pipe Installation, Add	1.15	
For Work In Restricted Working Space, Add	6.88	
22 13 16 00-0254 EA 10", Cut And Prepare Existing In-Place Cast Iron Pipe.....	26.75	
For Above Ground Cast Iron Pipe Installation, Add	1.34	
For Work In Restricted Working Space, Add	8.03	
22 13 16 00-0255 EA 12", Cut And Prepare Existing In-Place Cast Iron Pipe.....	31.53	
For Above Ground Cast Iron Pipe Installation, Add	1.58	
For Work In Restricted Working Space, Add	9.46	
22 13 16 00-0256 EA 15", Cut And Prepare Existing In-Place Cast Iron Pipe.....	36.31	
For Above Ground Cast Iron Pipe Installation, Add	1.82	
For Work In Restricted Working Space, Add	10.89	
22 13 16 00-0257 Joint Material (22 13 16 00-0019)		
Note: Labor costs are included in the installation costs for fittings.		
22 13 16 00-0258 LB Lead (1 LB/Diameter Inch) Joint Material.....	4.97	
22 13 16 00-0259 LB Oakum (1/8 LB/Diameter Inch) Joint Material.....	9.75	
22 13 16 00-0260 EA 2" Dual Tite Rubber Gasket.....	0.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0261 EA 3" Dual Tite Rubber Gasket	0.99	
22 13 16 00-0262 EA 4" Dual Tite Rubber Gasket	1.23	
22 13 16 00-0263 EA 6" Dual Tite Rubber Gasket	2.04	
22 13 16 00-0264 EA 8" Dual Tite Rubber Gasket	4.49	
22 13 16 00-0265 EA 10" Dual Tite Rubber Gasket	6.89	
22 13 16 00-0266 EA 12" Dual Tite Rubber Gasket	8.78	
22 13 16 00-0267 EA 15" Dual Tite Rubber Gasket	10.43	
22 13 16 00-0268 No Hub Cast Iron Soil Pipe And Fittings (22 13 16)		
Note: Service Weight. Excludes hangers.		
22 13 16 00-0269 No Hub Cast Iron Pipe (22 13 16 00-0268)		
Note: Excludes couplings.		
22 13 16 00-0270 LF 1-1/2" No Hub Cast Iron Pipe	12.58	5.27
For Below Ground Installation, Add		
	0.40	
For Work In Restricted Working Space, Add		
	2.38	
22 13 16 00-0271 LF 2" No Hub Cast Iron Pipe	13.38	5.62
For Below Ground Installation, Add		
	0.43	
For Work In Restricted Working Space, Add		
	2.55	
22 13 16 00-0272 LF 3" No Hub Cast Iron Pipe	19.07	8.18
For Below Ground Installation, Add		
	0.62	
For Work In Restricted Working Space, Add		
	3.69	
22 13 16 00-0273 LF 4" No Hub Cast Iron Pipe	24.74	10.65
For Below Ground Installation, Add		
	0.80	
For Work In Restricted Working Space, Add		
	4.80	
22 13 16 00-0274 LF 5" No Hub Cast Iron Pipe	31.22	12.70
For Below Ground Installation, Add		
	0.95	
For Work In Restricted Working Space, Add		
	5.71	
22 13 16 00-0275 LF 6" No Hub Cast Iron Pipe	35.82	13.86
For Below Ground Installation, Add		
	1.04	
For Work In Restricted Working Space, Add		
	6.23	
22 13 16 00-0276 LF 8" No Hub Cast Iron Pipe	53.88	19.88
For Below Ground Installation, Add		
	1.49	
For Work In Restricted Working Space, Add		
	8.93	
22 13 16 00-0277 LF 10" No Hub Cast Iron Pipe	73.86	22.59
For Below Ground Installation, Add		
	1.69	
For Work In Restricted Working Space, Add		
	10.16	
22 13 16 00-0278 No Hub Cast Iron Fittings (22 13 16 00-0268)		
22 13 16 00-0279 No Hub Cast Iron Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0280 EA 1-1/2" No Hub Cast Iron Long Sweep	49.41	24.98
For Below Ground Installation, Add		
	1.87	
For Work In Restricted Working Space, Add		
	11.23	
22 13 16 00-0281 EA 2" No Hub Cast Iron Long Sweep	49.71	24.98
For Below Ground Installation, Add		
	1.87	
For Work In Restricted Working Space, Add		
	11.23	
22 13 16 00-0282 EA 3" No Hub Cast Iron Long Sweep	58.29	28.59
For Below Ground Installation, Add		
	2.15	
For Work In Restricted Working Space, Add		
	12.87	
22 13 16 00-0283 EA 4" No Hub Cast Iron Long Sweep	79.69	37.82
For Below Ground Installation, Add		
	2.84	
For Work In Restricted Working Space, Add		
	17.03	
22 13 16 00-0284 EA 5" No Hub Cast Iron Long Sweep	105.03	41.90
For Below Ground Installation, Add		
	3.14	
For Work In Restricted Working Space, Add		
	18.84	
22 13 16 00-0285 EA 6" No Hub Cast Iron Long Sweep	124.73	49.95
For Below Ground Installation, Add		
	3.75	
For Work In Restricted Working Space, Add		
	22.48	
22 13 16 00-0286 EA 8" No Hub Cast Iron Long Sweep	232.81	64.47
For Below Ground Installation, Add		
	4.83	
For Work In Restricted Working Space, Add		
	29.01	
22 13 16 00-0287 No Hub Cast Iron Reducing Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0288 EA 3" x 2" No Hub Cast Iron Reducing Long Sweep	70.97	28.59
For Below Ground Installation, Add		
	2.15	
For Work In Restricted Working Space, Add		
	12.87	
22 13 16 00-0289 EA 4" x 3" No Hub Cast Iron Reducing Long Sweep	103.85	37.82
For Below Ground Installation, Add		
	2.84	
For Work In Restricted Working Space, Add		
	17.03	
22 13 16 00-0290 No Hub Cast Iron Short Sweeps (22 13 16 00-0278)		
22 13 16 00-0291 EA 2" No Hub Cast Iron Short Sweep	47.16	24.98
For Below Ground Installation, Add		
	1.87	
For Work In Restricted Working Space, Add		
	11.23	
22 13 16 00-0292 EA 3" No Hub Cast Iron Short Sweep	56.27	28.59
For Below Ground Installation, Add		
	2.15	
For Work In Restricted Working Space, Add		
	12.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0293 EA 4" No Hub Cast Iron Short Sweep	78.63	37.82
For Below Ground Installation, Add	2.84	
For Work In Restricted Working Space, Add	17.03	
22 13 16 00-0294 EA 5" No Hub Cast Iron Short Sweep	105.43	41.90
For Below Ground Installation, Add	3.14	
For Work In Restricted Working Space, Add	18.84	
22 13 16 00-0295 EA 6" No Hub Cast Iron Short Sweep	118.54	49.95
For Below Ground Installation, Add	3.75	
For Work In Restricted Working Space, Add	22.48	
22 13 16 00-0296 EA 8" No Hub Cast Iron Short Sweep	214.11	64.47
For Below Ground Installation, Add	4.83	
For Work In Restricted Working Space, Add	29.01	
22 13 16 00-0297 EA 10" No Hub Cast Iron Short Sweep	341.89	90.27
For Below Ground Installation, Add	6.77	
For Work In Restricted Working Space, Add	40.61	
22 13 16 00-0298 No Hub Cast Iron 1/4 Bends (22 13 16 00-0278)		
22 13 16 00-0299 EA 1-1/2" No Hub Cast Iron 1/4 Bend	43.45	23.93
For Below Ground Installation, Add	1.80	
For Work In Restricted Working Space, Add	10.77	
22 13 16 00-0300 EA 2" No Hub Cast Iron 1/4 Bend	45.41	24.98
For Below Ground Installation, Add	1.87	
For Work In Restricted Working Space, Add	11.23	
22 13 16 00-0301 EA 3" No Hub Cast Iron 1/4 Bend	53.43	28.59
For Below Ground Installation, Add	2.15	
For Work In Restricted Working Space, Add	12.87	
22 13 16 00-0302 EA 4" No Hub Cast Iron 1/4 Bend	72.34	37.82
For Below Ground Installation, Add	2.84	
For Work In Restricted Working Space, Add	17.03	
22 13 16 00-0303 EA 5" No Hub Cast Iron 1/4 Bend	97.61	41.90
For Below Ground Installation, Add	3.14	
For Work In Restricted Working Space, Add	18.84	
22 13 16 00-0304 EA 6" No Hub Cast Iron 1/4 Bend	113.54	49.95
For Below Ground Installation, Add	3.75	
For Work In Restricted Working Space, Add	22.48	
22 13 16 00-0305 EA 8" No Hub Cast Iron 1/4 Bend	199.54	64.47
For Below Ground Installation, Add	4.83	
For Work In Restricted Working Space, Add	29.01	
22 13 16 00-0306 No Hub Cast Iron 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0307 EA 1-1/2" No Hub Cast Iron 1/8 Bend	41.83	23.93
For Below Ground Installation, Add	1.80	
For Work In Restricted Working Space, Add	10.77	
22 13 16 00-0308 EA 2" No Hub Cast Iron 1/8 Bend	43.49	24.98
For Below Ground Installation, Add	1.87	
For Work In Restricted Working Space, Add	11.23	
22 13 16 00-0309 EA 3" No Hub Cast Iron 1/8 Bend	51.54	28.59
For Below Ground Installation, Add	2.15	
For Work In Restricted Working Space, Add	12.87	
22 13 16 00-0310 EA 4" No Hub Cast Iron 1/8 Bend	68.10	37.82
For Below Ground Installation, Add	2.84	
For Work In Restricted Working Space, Add	17.03	
22 13 16 00-0311 EA 6" No Hub Cast Iron 1/8 Bend	109.68	55.85
For Below Ground Installation, Add	4.19	
For Work In Restricted Working Space, Add	25.13	
22 13 16 00-0312 EA 8" No Hub Cast Iron 1/8 Bend	178.94	73.36
For Below Ground Installation, Add	5.50	
For Work In Restricted Working Space, Add	32.99	
22 13 16 00-0313 EA 10" No Hub Cast Iron 1/8 Bend	265.45	90.24
For Below Ground Installation, Add	6.77	
For Work In Restricted Working Space, Add	40.60	
22 13 16 00-0314 No Hub Cast Iron Wyes (22 13 16 00-0278)		
22 13 16 00-0315 EA 1-1/2" No Hub Cast Iron Wye	66.92	37.64
For Below Ground Installation, Add	2.82	
For Work In Restricted Working Space, Add	16.92	
22 13 16 00-0316 EA 2" No Hub Cast Iron Wye	87.14	51.01
For Below Ground Installation, Add	3.82	
For Work In Restricted Working Space, Add	22.94	
22 13 16 00-0317 EA 3" No Hub Cast Iron Wye	98.33	55.85
For Below Ground Installation, Add	4.19	
For Work In Restricted Working Space, Add	25.13	
22 13 16 00-0318 EA 4" No Hub Cast Iron Wye	133.59	73.36
For Below Ground Installation, Add	5.50	
For Work In Restricted Working Space, Add	32.99	
22 13 16 00-0319 EA 5" No Hub Cast Iron Wye	173.41	81.56
For Below Ground Installation, Add	6.11	
For Work In Restricted Working Space, Add	36.68	
22 13 16 00-0320 EA 6" No Hub Cast Iron Wye	205.81	96.83
For Below Ground Installation, Add	7.26	
For Work In Restricted Working Space, Add	43.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0321 EA 8" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	335.79 9.67 58.01	129.02
22 13 16 00-0322 EA 10" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	523.22 10.74 64.46	143.32
22 13 16 00-0323 No Hub Cast Iron Reducing Wyes (22 13 16 00-0278)		
22 13 16 00-0324 EA 3" x 1-1/2" No Hub Cast Iron Reducing Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	84.49 3.65 21.90	48.73
22 13 16 00-0325 EA 3" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	95.25 4.19 25.13	55.85
22 13 16 00-0326 EA 4" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	107.29 4.63 27.78	61.75
22 13 16 00-0327 EA 4" x 3" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	122.57 5.14 30.86	68.61
22 13 16 00-0328 EA 6" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	156.24 6.18 37.07	82.39
22 13 16 00-0329 EA 6" x 3" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	165.91 6.45 38.72	86.12
22 13 16 00-0330 EA 6" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.20 7.54 45.26	100.65
22 13 16 00-0331 EA 8" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	233.63 7.61 45.63	101.44
22 13 16 00-0332 EA 8" x 6" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	267.82 8.36 50.14	111.51
22 13 16 00-0333 EA 10" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	391.36 8.91 53.43	118.79
22 13 16 00-0334 EA 10" x 6" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	413.77 9.53 57.20	127.16
22 13 16 00-0335 EA 10" x 8" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	471.49 10.18 61.07	135.79
22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0337 EA 1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	76.30 3.28 19.69	43.80
22 13 16 00-0338 EA 2" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	87.57 3.82 22.94	51.01
22 13 16 00-0339 EA 3" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	101.57 4.19 25.13	55.85
22 13 16 00-0340 EA 4" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	142.75 5.50 32.99	73.36
22 13 16 00-0341 EA 6" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	251.74 8.46 50.75	112.85
22 13 16 00-0342 EA 8" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	424.29 10.85 65.12	144.78
22 13 16 00-0343 EA 10" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	500.34 13.12 78.72	175.04
22 13 16 00-0344 No Hub Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0345 EA 2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.10 3.82 22.94	51.01
22 13 16 00-0346 EA 3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	96.87 4.19 25.13	55.85
22 13 16 00-0347 EA 4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	110.53 4.63 27.78	61.75
22 13 16 00-0348 EA 4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.71 5.14 30.86	68.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0349 EA 6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	165.68	82.39
<i>For Below Ground Installation, Add</i>	6.18	
<i>For Work In Restricted Working Space, Add</i>	37.07	
22 13 16 00-0350 EA 6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	182.40	86.12
<i>For Below Ground Installation, Add</i>	6.45	
<i>For Work In Restricted Working Space, Add</i>	38.72	
22 13 16 00-0351 EA 6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	205.63	100.65
<i>For Below Ground Installation, Add</i>	7.54	
<i>For Work In Restricted Working Space, Add</i>	45.26	
22 13 16 00-0352 EA 8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	260.61	101.44
<i>For Below Ground Installation, Add</i>	7.61	
<i>For Work In Restricted Working Space, Add</i>	45.63	
22 13 16 00-0353 EA 8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	329.49	111.51
<i>For Below Ground Installation, Add</i>	8.36	
<i>For Work In Restricted Working Space, Add</i>	50.14	
22 13 16 00-0354 No Hub Cast Iron Double Wyes (22 13 16 00-0278)		
22 13 16 00-0355 EA 2" No Hub Cast Iron Double Wye.....	109.94	63.42
<i>For Below Ground Installation, Add</i>	4.75	
<i>For Work In Restricted Working Space, Add</i>	28.52	
22 13 16 00-0356 EA 3" No Hub Cast Iron Double Wye.....	143.14	77.22
<i>For Below Ground Installation, Add</i>	5.79	
<i>For Work In Restricted Working Space, Add</i>	34.72	
22 13 16 00-0357 EA 4" No Hub Cast Iron Double Wye.....	182.97	84.44
<i>For Below Ground Installation, Add</i>	6.33	
<i>For Work In Restricted Working Space, Add</i>	37.97	
22 13 16 00-0358 EA 6" No Hub Cast Iron Double Wye.....	280.11	122.05
<i>For Below Ground Installation, Add</i>	9.15	
<i>For Work In Restricted Working Space, Add</i>	54.88	
22 13 16 00-0359 EA 8" No Hub Cast Iron Double Wye.....	509.33	164.13
<i>For Below Ground Installation, Add</i>	12.31	
<i>For Work In Restricted Working Space, Add</i>	73.84	
22 13 16 00-0360 No Hub Cast Iron Reducing Double Wyes (22 13 16 00-0278)		
22 13 16 00-0361 EA 3" x 2" No Hub Cast Iron Double Wye.....	128.84	70.28
<i>For Below Ground Installation, Add</i>	5.27	
<i>For Work In Restricted Working Space, Add</i>	31.60	
22 13 16 00-0362 EA 4" x 2" No Hub Cast Iron Double Wye.....	152.91	80.92
<i>For Below Ground Installation, Add</i>	6.07	
<i>For Work In Restricted Working Space, Add</i>	36.40	
22 13 16 00-0363 EA 4" x 3" No Hub Cast Iron Double Wye.....	167.88	88.22
<i>For Below Ground Installation, Add</i>	6.61	
<i>For Work In Restricted Working Space, Add</i>	39.68	
22 13 16 00-0364 EA 6" x 4" No Hub Cast Iron Double Wye.....	240.15	107.61
<i>For Below Ground Installation, Add</i>	8.07	
<i>For Work In Restricted Working Space, Add</i>	48.40	
22 13 16 00-0365 No Hub Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0366 EA 2" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	140.28	76.17
<i>For Below Ground Installation, Add</i>	5.71	
<i>For Work In Restricted Working Space, Add</i>	34.27	
22 13 16 00-0367 EA 3" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	166.91	84.44
<i>For Below Ground Installation, Add</i>	6.33	
<i>For Work In Restricted Working Space, Add</i>	37.97	
22 13 16 00-0368 EA 4" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	244.60	111.80
<i>For Below Ground Installation, Add</i>	8.38	
<i>For Work In Restricted Working Space, Add</i>	50.26	
22 13 16 00-0369 EA 6" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	348.67	172.57
<i>For Below Ground Installation, Add</i>	12.94	
<i>For Work In Restricted Working Space, Add</i>	77.61	
22 13 16 00-0370 No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0371 EA 3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	128.49	65.53
<i>For Below Ground Installation, Add</i>	4.91	
<i>For Work In Restricted Working Space, Add</i>	29.48	
22 13 16 00-0372 EA 4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	149.05	76.17
<i>For Below Ground Installation, Add</i>	5.71	
<i>For Work In Restricted Working Space, Add</i>	34.27	
22 13 16 00-0373 EA 4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	175.38	83.21
<i>For Below Ground Installation, Add</i>	6.24	
<i>For Work In Restricted Working Space, Add</i>	37.43	
22 13 16 00-0374 No Hub Cast Iron Sanitary Tees (22 13 16 00-0278)		
22 13 16 00-0375 EA 1-1/2" No Hub Cast Iron Sanitary Tee.....	65.32	36.86
<i>For Below Ground Installation, Add</i>	2.77	
<i>For Work In Restricted Working Space, Add</i>	16.60	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0376	EA		2" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	87.67 3.82 22.94	51.01
22 13 16 00-0377	EA		3" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	97.13 4.19 25.13	55.85
22 13 16 00-0378	EA		4" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	130.87 5.50 32.99	73.36
22 13 16 00-0379	EA		5" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	173.98 6.11 36.68	81.56
22 13 16 00-0380	EA		6" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	205.41 7.26 43.56	96.83
22 13 16 00-0381	EA		8" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	369.25 9.67 58.01	129.02
22 13 16 00-0382	EA		2" x 1-1/2" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	73.57 3.12 18.71	41.61
22 13 16 00-0383	EA		3" x 1-1/2" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.41 3.65 21.90	48.73
22 13 16 00-0384			No Hub Cast Iron Reducing Sanitary Tees (22 13 16 00-0278)		
22 13 16 00-0385	EA		3" x 2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.89 3.82 22.94	51.01
22 13 16 00-0386	EA		3" x 4" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	101.70 3.82 22.94	51.01
22 13 16 00-0387	EA		4" x 2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	119.40 5.17 31.04	69.04
22 13 16 00-0388	EA		4" x 3" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	122.51 5.17 31.04	69.04
22 13 16 00-0389	EA		5" x 2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	153.13 5.81 34.85	77.49
22 13 16 00-0390	EA		5" x 3" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	157.46 5.81 34.85	77.49
22 13 16 00-0391	EA		5" x 4" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	157.99 5.81 34.85	77.49
22 13 16 00-0392	EA		6" x 4" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	164.07 6.05 36.30	80.73
22 13 16 00-0393	EA		8" x 6" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	294.15 8.16 48.93	108.80
22 13 16 00-0394			No Hub Cast Iron Sanitary Tapped Tees (22 13 16 00-0278)		
22 13 16 00-0395	EA		2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	48.65 1.87 11.23	24.98
22 13 16 00-0396	EA		3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	56.37 2.15 12.87	28.59
22 13 16 00-0397	EA		4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	70.52 2.84 17.03	37.82
22 13 16 00-0398			No Hub Cast Iron Cleanout Tees (22 13 16 00-0278)		
22 13 16 00-0399	EA		2" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.70 1.87 11.23	24.98
22 13 16 00-0400	EA		3" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	57.80 2.15 12.87	28.59
22 13 16 00-0401	EA		4" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	82.93 2.84 17.03	37.82
22 13 16 00-0402	EA		6" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	134.84 4.19 25.13	55.85
22 13 16 00-0403			No Hub Cast Iron Two-Way Cleanout Tees (22 13 16 00-0278)		

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0404	EA		4" No Hub Cast Iron Single Two-Way Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	184.72 5.50 32.99	73.36
22 13 16 00-0405	EA		4" No Hub Cast Iron Double Two-Way Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	236.55 8.36 50.14	111.44
22 13 16 00-0406			No Hub Cast Iron Cleanout Plugs (22 13 16 00-0278)		
22 13 16 00-0407	EA		2" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	41.37 1.87 11.23	24.98
22 13 16 00-0408	EA		3" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	49.09 2.15 12.87	28.59
22 13 16 00-0409	EA		4" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	68.50 2.84 17.03	37.82
22 13 16 00-0410	EA		6" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	105.71 4.19 25.13	55.85
22 13 16 00-0411	EA		8" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	140.11 5.50 32.99	73.36
22 13 16 00-0412			No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0413	EA		1-1/2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	87.42 3.70 22.17	49.25
22 13 16 00-0414	EA		2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	93.36 3.82 22.94	51.01
22 13 16 00-0415	EA		3" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	110.34 4.19 25.13	55.85
22 13 16 00-0416	EA		4" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	159.90 5.50 32.99	73.36
22 13 16 00-0417			No Hub Cast Iron Reducing Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0418	EA		3" x 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	122.15 4.91 29.48	65.53
22 13 16 00-0419	EA		4" x 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	134.92 5.06 30.35	67.46
22 13 16 00-0420	EA		4" x 3" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	146.32 5.28 31.67	70.45
22 13 16 00-0421			No Hub Cast Iron Reducers (22 13 16 00-0278)		
22 13 16 00-0422	EA		3" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	82.14 3.82 22.94	51.01
22 13 16 00-0423	EA		4" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	112.12 5.17 31.04	69.04
22 13 16 00-0424	EA		4" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	112.38 5.17 31.04	69.04
22 13 16 00-0425	EA		5" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	128.83 5.81 34.85	77.49
22 13 16 00-0426	EA		5" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	130.58 5.81 34.85	77.49
22 13 16 00-0427	EA		5" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	131.28 5.81 34.85	77.49
22 13 16 00-0428	EA		6" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.95 6.45 38.72	86.12
22 13 16 00-0429	EA		6" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	151.22 6.45 38.72	86.12
22 13 16 00-0430	EA		6" x 5" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	152.01 6.45 38.72	86.12
22 13 16 00-0431	EA		8" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	209.65 9.02 54.15	120.39



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0432	EA		8" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	211.67 9.02 54.15	120.39
22 13 16 00-0433	EA		8" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	214.92 9.02 54.15	120.39
22 13 16 00-0434	EA		8" x 5" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	218.29 9.02 54.15	120.39
22 13 16 00-0435	EA		8" x 6" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	218.69 9.02 54.15	120.39
22 13 16 00-0436	EA		10" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	252.99 9.52 57.11	127.00
22 13 16 00-0437	EA		10" x 6" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	269.01 9.94 59.65	132.57
22 13 16 00-0438	EA		10" x 8" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	299.82 10.79 64.72	143.91
22 13 16 00-0439 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)					
22 13 16 00-0440	EA		1-1/2" No Hub Cast Iron Blind Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	39.14 1.80 10.77	23.93
22 13 16 00-0441	EA		2" No Hub Cast Iron Blind Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	40.54 1.87 11.23	24.98
22 13 16 00-0442	EA		3" No Hub Cast Iron Blind Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	48.43 2.15 12.87	28.59
22 13 16 00-0443	EA		4" No Hub Cast Iron Blind Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	64.16 2.84 17.03	37.82
22 13 16 00-0444	EA		5" No Hub Cast Iron Blind Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	77.66 3.19 19.17	43.14
22 13 16 00-0445	EA		6" No Hub Cast Iron Blind Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.84 3.75 22.48	49.95
22 13 16 00-0446	EA		8" No Hub Cast Iron Blind Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	140.55 4.83 29.01	64.47
22 13 16 00-0447	EA		10" No Hub Cast Iron Blind Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	167.19 5.21 31.24	69.46
22 13 16 00-0448 No Hub Cast Iron P-Traps (22 13 16 00-0278)					
22 13 16 00-0449	EA		2" No Hub Cast Iron P-Trap..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	48.92 1.87 11.23	24.98
22 13 16 00-0450	EA		3" No Hub Cast Iron P-Trap..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.08 2.15 12.87	28.59
22 13 16 00-0451	EA		4" No Hub Cast Iron P-Trap..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	102.23 2.84 17.03	37.82
22 13 16 00-0452	EA		5" No Hub Cast Iron P-Trap..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	167.36 3.16 18.98	42.23
22 13 16 00-0453	EA		6" No Hub Cast Iron P-Trap..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	179.68 3.78 22.65	50.36
22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps (22 13 16 00-0278)					
22 13 16 00-0455	EA		2" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.95 2.38 14.26	31.76
22 13 16 00-0456	EA		3" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	107.01 3.16 18.98	42.22
22 13 16 00-0457	EA		4" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	153.74 4.18 25.07	55.76
22 13 16 00-0458 No Hub Cast Iron Closet Flanges (22 13 16 00-0278)					
22 13 16 00-0459	EA		4" No Hub Cast Iron Closet Flange..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.96 2.84 17.03	37.82

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0460 EA 4" x 2-1/2" No Hub Cast Iron Offset Closet Flange <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.74 2.84 17.03	37.82
22 13 16 00-0461 No Hub Cast Iron Closet Bends (22 13 16 00-0278)		
22 13 16 00-0462 EA 4" x 16" No Hub Cast Iron Closet Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	128.02 2.84 17.03	37.82
22 13 16 00-0463 No Hub Cast Iron Threaded Adapter (22 13 16 00-0278)		
22 13 16 00-0464 EA 1-1/4" No Hub Cast Iron Threaded Adapter <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	57.40 2.38 14.26	31.76
22 13 16 00-0465 EA 1-1/2" No Hub Cast Iron Threaded Adapter <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	60.45 2.38 14.26	31.76
22 13 16 00-0466 No Hub Couplings (22 13 16 00-0278) Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Ferno NH).		
22 13 16 00-0467 EA 1-1/2" No Hub Coupling <i>For Medium Duty (Ferno MD-2000), Add</i> <i>For Heavy Duty (Ferno HD-4000), Add</i>	5.61 0.73 1.51	
22 13 16 00-0468 EA 2" No Hub Coupling <i>For Medium Duty (Ferno MD-2000), Add</i> <i>For Heavy Duty (Ferno HD-4000), Add</i>	5.61 0.73 1.51	
22 13 16 00-0469 EA 3" No Hub Coupling <i>For Medium Duty (Ferno MD-2000), Add</i> <i>For Heavy Duty (Ferno HD-4000), Add</i>	6.66 0.87 1.80	
22 13 16 00-0470 EA 4" No Hub Coupling <i>For Medium Duty (Ferno MD-2000), Add</i> <i>For Heavy Duty (Ferno HD-4000), Add</i>	7.90 1.03 2.13	
22 13 16 00-0471 EA 5" No Hub Coupling <i>For Medium Duty (Ferno MD-2000), Add</i> <i>For Heavy Duty (Ferno HD-4000), Add</i>	18.28 2.38 4.94	
22 13 16 00-0472 EA 6" No Hub Coupling <i>For Medium Duty (Ferno MD-2000), Add</i> <i>For Heavy Duty (Ferno HD-4000), Add</i>	20.08 2.61 5.42	
22 13 16 00-0473 EA 8" No Hub Coupling <i>For Medium Duty (Ferno MD-2000), Add</i> <i>For Heavy Duty (Ferno HD-4000), Add</i>	37.84 4.92 10.22	
22 13 16 00-0474 EA 10" No Hub Coupling <i>For Medium Duty (Ferno MD-2000), Add</i> <i>For Heavy Duty (Ferno HD-4000), Add</i>	52.12 6.78 14.07	
22 13 16 00-0475 EA 2" x 1-1/2" No Hub Reducing Coupling	6.66	
22 13 16 00-0476 EA 3" x 2" No Hub Reducing Coupling	10.33	
22 13 16 00-0477 EA 4" x 2" No Hub Reducing Coupling	14.40	
22 13 16 00-0478 EA 4" x 3" No Hub Reducing Coupling	12.27	
22 13 16 00-0479 Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts (22 13 16 00-0278) Note: For underground connections. See CSI section 22 13 16 00-0861 for additional FERNCO couplings.		
22 13 16 00-0480 EA 1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	21.81	
22 13 16 00-0481 EA 2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	22.51	
22 13 16 00-0482 EA 3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	23.64	
22 13 16 00-0483 EA 4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	27.57	
22 13 16 00-0484 EA 5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	52.05	
22 13 16 00-0485 EA 6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	71.47	
22 13 16 00-0486 EA 8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	125.21	
22 13 16 00-0487 EA 10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	191.33	
22 13 16 00-0488 Cut And Prepare Existing Pipe In-Place (22 13 16 00-0268) Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0489 EA Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	8.60 2.58	
22 13 16 00-0490 EA Cut And Prepare 2" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	10.51 3.15	
22 13 16 00-0491 EA Cut And Prepare 3" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	11.47 3.44	
22 13 16 00-0492 EA Cut And Prepare 4" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	14.33 4.30	
22 13 16 00-0493 EA Cut And Prepare 6" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	17.20 5.16	
22 13 16 00-0494 EA Cut And Prepare 8" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	22.93 6.88	
22 13 16 00-0495 EA Cut And Prepare 10" Cast Iron Pipe, No Hub <i>For Work In Restricted Working Space, Add</i>	26.75 8.03	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0496			Copper Drain-Waste-Vent (DWV) Pipe <small>(22 13 16)</small> See CSI section 22 11 16 00-0413 for copper and brass fittings.		
22 13 16 00-0497	LF		1-1/4" Hard Drawn DWV Copper Tube/Pipe.....	10.84	4.13
22 13 16 00-0498	LF		1-1/2" Hard Drawn DWV Copper Tube/Pipe.....	12.75	4.62
22 13 16 00-0499	LF		2" Hard Drawn DWV Copper Tube/Pipe.....	16.26	5.69
22 13 16 00-0500	LF		3" Hard Drawn DWV Copper Tube/Pipe.....	37.12	7.89
22 13 16 00-0501	LF		4" Hard Drawn DWV Copper Tube/Pipe.....	49.31	8.90
22 13 16 00-0502	LF		5" Hard Drawn DWV Copper Tube/Pipe.....	88.24	10.22
22 13 16 00-0503	LF		6" Hard Drawn DWV Copper Tube/Pipe.....	127.36	15.84
22 13 16 00-0504			Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 13 16)</small> Note: Aboveground installation. See CSI section 33 31 11 00-0019 for underground installation.		
22 13 16 00-0505			Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <small>(22 13 16 00-0504)</small> Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0506	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	18.19	3.69
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	4.23	
22 13 16 00-0507	LF		2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	20.64	4.40
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	4.71	
22 13 16 00-0508	LF		3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	27.29	6.33
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	5.85	
22 13 16 00-0509	LF		4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	31.36	6.86
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	6.39	
22 13 16 00-0510	LF		6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	43.31	8.79
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	8.18	
22 13 16 00-0511	LF		8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	53.37	11.70
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	9.38	
22 13 16 00-0512	LF		10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	72.73	15.66
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	12.23	
22 13 16 00-0513			Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <small>(22 13 16 00-0504)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0514			Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) <small>(22 13 16 00-0513)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0515	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	6.35	3.69
			<i>For Work In Restricted Working Space, Add</i>	1.65	
22 13 16 00-0516	LF		2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	7.71	4.40
			<i>For Work In Restricted Working Space, Add</i>	1.98	
22 13 16 00-0517	LF		3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	11.71	6.33
			<i>For Work In Restricted Working Space, Add</i>	2.84	
22 13 16 00-0518	LF		4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	13.44	6.86
			<i>For Work In Restricted Working Space, Add</i>	3.08	
22 13 16 00-0519	LF		6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	18.07	8.30
			<i>For Work In Restricted Working Space, Add</i>	3.73	
22 13 16 00-0520	LF		8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	25.17	11.04
			<i>For Work In Restricted Working Space, Add</i>	4.98	
22 13 16 00-0521	LF		10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	35.27	14.76
			<i>For Work In Restricted Working Space, Add</i>	6.64	
22 13 16 00-0522			Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) <small>(22 13 16 00-0513)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0523	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	6.09	3.69
			<i>For Work In Restricted Working Space, Add</i>	1.65	
22 13 16 00-0524	LF		2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	7.40	4.40
			<i>For Work In Restricted Working Space, Add</i>	1.98	
22 13 16 00-0525	LF		3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	11.13	6.33
			<i>For Work In Restricted Working Space, Add</i>	2.84	
22 13 16 00-0526	LF		4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	12.67	6.86
			<i>For Work In Restricted Working Space, Add</i>	3.08	
22 13 16 00-0527	LF		6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	16.64	8.30
			<i>For Work In Restricted Working Space, Add</i>	3.73	
22 13 16 00-0528	LF		8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	23.16	11.04
			<i>For Work In Restricted Working Space, Add</i>	4.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0529 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	33.08 6.64	14.76
22 13 16 00-0530 Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) (22 13 16 00-0504)		
22 13 16 00-0531 Polyvinyl Chloride (PVC) DWV 1/4 Bends (22 13 16 00-0530)		
22 13 16 00-0532 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	23.27 6.60	14.69
22 13 16 00-0533 EA 2" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	29.77 8.44	18.74
22 13 16 00-0534 EA 3" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	42.88 11.35	25.15
22 13 16 00-0535 EA 4" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	54.71 13.19	29.29
22 13 16 00-0536 EA 6" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	122.46 17.15	38.08
22 13 16 00-0537 EA 8" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	188.80 23.09	51.28
22 13 16 00-0538 EA 10" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	250.06 30.78	68.34
22 13 16 00-0539 Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends (22 13 16 00-0530)		
22 13 16 00-0540 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	26.87 6.60	14.69
22 13 16 00-0541 EA 2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	31.84 8.44	18.74
22 13 16 00-0542 EA 3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	48.20 11.35	25.15
22 13 16 00-0543 EA 4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	64.48 13.19	29.29
22 13 16 00-0544 EA 6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	103.59 17.15	38.08
22 13 16 00-0545 EA 8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	164.00 23.09	51.28
22 13 16 00-0546 EA 10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	249.61 30.78	68.34
22 13 16 00-0547 Polyvinyl Chloride (PVC) DWV 1/8 Bends (22 13 16 00-0530)		
22 13 16 00-0548 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	23.57 6.60	14.69
22 13 16 00-0549 EA 2" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	29.74 8.44	18.74
22 13 16 00-0550 EA 3" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	42.43 11.35	25.15
22 13 16 00-0551 EA 4" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	52.54 13.19	29.29
22 13 16 00-0552 EA 6" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	116.94 17.15	38.08
22 13 16 00-0553 EA 8" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	175.96 23.09	51.28
22 13 16 00-0554 EA 10" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	212.28 30.78	68.34
22 13 16 00-0555 Polyvinyl Chloride (PVC) DWV Sanitary Tees (22 13 16 00-0530)		
22 13 16 00-0556 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	35.27 9.89	21.99
22 13 16 00-0557 EA 2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	45.50 12.67	28.14
22 13 16 00-0558 EA 3" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	65.46 17.02	37.82
22 13 16 00-0559 EA 4" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	82.62 19.79	43.98
22 13 16 00-0560 EA 6" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	182.60 25.73	57.08
22 13 16 00-0561 EA 8" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	240.63 34.63	76.87
22 13 16 00-0562 Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees (22 13 16 00-0530)		
22 13 16 00-0563 EA 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	40.20 10.82	24.01
22 13 16 00-0564 EA 2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	44.86 11.74	26.04
22 13 16 00-0565 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	42.42 11.74	26.04
22 13 16 00-0566 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	55.50 14.65	32.54
22 13 16 00-0567 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	58.26 15.57	34.56



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 16 00-0568	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	63.96 16.49	36.59
	22 13 16 00-0569	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	80.63 17.42	38.70
	22 13 16 00-0570	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	93.57 18.87	41.87
	22 13 16 00-0571	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	172.83 23.75	52.68
	22 13 16 00-0572	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	424.96 29.69	65.88
	22 13 16 00-0573	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	442.07 31.67	70.28
	22 13 16 00-0574			Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <small>(22 13 16 00-0530)</small>		
	22 13 16 00-0575	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	50.89 13.19	29.29
	22 13 16 00-0576	EA		2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	66.41 16.89	37.47
	22 13 16 00-0577	EA		3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	104.01 22.69	50.40
	22 13 16 00-0578	EA		4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	133.57 26.39	58.58
	22 13 16 00-0579			Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees <small>(22 13 16 00-0530)</small>		
	22 13 16 00-0580	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	59.28 15.04	33.43
	22 13 16 00-0581	EA		3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	81.28 17.94	39.84
	22 13 16 00-0582	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	91.41 19.79	43.98
	22 13 16 00-0583	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	128.15 21.64	48.03
	22 13 16 00-0584	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	139.36 24.54	54.44
	22 13 16 00-0585			Polyvinyl Chloride (PVC) DWV Reducers <small>(22 13 16 00-0530)</small>		
	22 13 16 00-0586	EA		2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	27.63 7.52	16.71
	22 13 16 00-0587	EA		3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	38.09 8.97	19.88
	22 13 16 00-0588	EA		3" x 2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	39.84 9.89	21.99
	22 13 16 00-0589	EA		4" x 2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	49.63 10.82	24.01
	22 13 16 00-0590	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	55.08 12.27	27.27
	22 13 16 00-0591	EA		6" x 3" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	119.15 14.25	31.66
	22 13 16 00-0592	EA		6" x 4" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	108.11 15.17	33.69
	22 13 16 00-0593	EA		8" x 4" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	218.37 18.14	40.29
	22 13 16 00-0594	EA		8" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	196.99 20.12	44.68
	22 13 16 00-0595	EA		10" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	256.72 23.97	53.22
	22 13 16 00-0596	EA		10" x 8" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	222.45 26.94	59.81
	22 13 16 00-0597			Polyvinyl Chloride (PVC) DWV P-Traps <small>(22 13 16 00-0530)</small>		
	22 13 16 00-0598	EA		1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	37.47 9.89	21.99
	22 13 16 00-0599	EA		2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	48.34 12.67	28.14
	22 13 16 00-0600	EA		3" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	87.19 17.02	37.82
	22 13 16 00-0601	EA		4" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	138.51 19.79	43.98
	22 13 16 00-0602	EA		6" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	214.02 25.73	57.08
	22 13 16 00-0603			Polyvinyl Chloride (PVC) DWV Closet Flanges <small>(22 13 16 00-0530)</small>		
	22 13 16 00-0604	EA		4" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	52.59 13.19	29.29
	22 13 16 00-0605	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	46.92 12.27	27.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0606 Polyvinyl Chloride (PVC) DWV Wyes (22 13 16 00-0530)		
22 13 16 00-0607 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Wyes.....	37.57	21.99
For Work In Restricted Working Space, Add	9.89	
22 13 16 00-0608 EA 2" Polyvinyl Chloride (PVC) DWV Wyes.....	46.83	28.14
For Work In Restricted Working Space, Add	12.67	
22 13 16 00-0609 EA 3" Polyvinyl Chloride (PVC) DWV Wyes.....	67.16	37.82
For Work In Restricted Working Space, Add	17.02	
22 13 16 00-0610 EA 4" Polyvinyl Chloride (PVC) DWV Wyes.....	85.41	43.98
For Work In Restricted Working Space, Add	19.79	
22 13 16 00-0611 EA 6" Polyvinyl Chloride (PVC) DWV Wyes.....	172.14	57.08
For Work In Restricted Working Space, Add	25.73	
22 13 16 00-0612 EA 8" Polyvinyl Chloride (PVC) DWV Wyes.....	220.77	76.87
For Work In Restricted Working Space, Add	34.63	
22 13 16 00-0613 EA 10" Polyvinyl Chloride (PVC) DWV Wyes.....	292.13	102.47
For Work In Restricted Working Space, Add	46.18	
22 13 16 00-0614 Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0530)		
22 13 16 00-0615 EA 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	44.25	24.01
For Work In Restricted Working Space, Add	10.82	
22 13 16 00-0616 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	47.26	26.04
For Work In Restricted Working Space, Add	11.74	
22 13 16 00-0617 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	61.57	32.54
For Work In Restricted Working Space, Add	14.65	
22 13 16 00-0618 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	59.97	34.56
For Work In Restricted Working Space, Add	15.57	
22 13 16 00-0619 EA 4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	75.22	36.59
For Work In Restricted Working Space, Add	16.49	
22 13 16 00-0620 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	73.67	38.70
For Work In Restricted Working Space, Add	17.42	
22 13 16 00-0621 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	81.12	41.87
For Work In Restricted Working Space, Add	18.87	
22 13 16 00-0622 EA 6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	154.45	50.66
For Work In Restricted Working Space, Add	22.83	
22 13 16 00-0623 EA 6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	179.40	52.68
For Work In Restricted Working Space, Add	23.75	
22 13 16 00-0624 EA 8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	189.22	65.88
For Work In Restricted Working Space, Add	29.69	
22 13 16 00-0625 EA 8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	223.67	70.28
For Work In Restricted Working Space, Add	31.67	
22 13 16 00-0626 EA 10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	226.31	82.94
For Work In Restricted Working Space, Add	37.38	
22 13 16 00-0627 EA 10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	263.16	87.35
For Work In Restricted Working Space, Add	39.36	
22 13 16 00-0628 EA 10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	297.21	93.94
For Work In Restricted Working Space, Add	42.33	
22 13 16 00-0629 Polyvinyl Chloride (PVC) DWV Double Wyes (22 13 16 00-0530)		
22 13 16 00-0630 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	53.75	29.29
For Work In Restricted Working Space, Add	13.19	
22 13 16 00-0631 EA 2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	68.85	37.47
For Work In Restricted Working Space, Add	16.89	
22 13 16 00-0632 EA 3" Polyvinyl Chloride (PVC) DWV Double Wyes.....	108.08	50.40
For Work In Restricted Working Space, Add	22.69	
22 13 16 00-0633 EA 4" Polyvinyl Chloride (PVC) DWV Double Wyes.....	153.72	58.58
For Work In Restricted Working Space, Add	26.39	
22 13 16 00-0634 EA 6" Polyvinyl Chloride (PVC) DWV Double Wyes.....	263.27	76.17
For Work In Restricted Working Space, Add	34.30	
22 13 16 00-0635 EA 8" Polyvinyl Chloride (PVC) DWV Double Wyes.....	322.01	102.56
For Work In Restricted Working Space, Add	46.18	
22 13 16 00-0636 EA 10" Polyvinyl Chloride (PVC) DWV Double Wyes.....	473.05	136.69
For Work In Restricted Working Space, Add	61.57	
22 13 16 00-0637 Polyvinyl Chloride (PVC) DWV Reducing Double Wyes (22 13 16 00-0530)		
22 13 16 00-0638 EA 2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	61.61	33.43
For Work In Restricted Working Space, Add	15.04	
22 13 16 00-0639 EA 3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	88.27	39.84
For Work In Restricted Working Space, Add	17.94	
22 13 16 00-0640 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	90.12	43.98
For Work In Restricted Working Space, Add	19.79	
22 13 16 00-0641 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	111.54	48.03
For Work In Restricted Working Space, Add	21.64	
22 13 16 00-0642 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes.....	133.87	54.44
For Work In Restricted Working Space, Add	24.54	
22 13 16 00-0643 EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes.....	186.67	67.37
For Work In Restricted Working Space, Add	30.35	
22 13 16 00-0644 EA 8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes.....	220.52	80.57
For Work In Restricted Working Space, Add	36.28	
22 13 16 00-0645 EA 8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes.....	265.05	89.37
For Work In Restricted Working Space, Add	40.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0646 EA 10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	283.89 43.98	97.63
22 13 16 00-0647 EA 10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	344.49 47.93	106.42
22 13 16 00-0648 EA 10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	405.83 53.87	119.62
22 13 16 00-0649 Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0650 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	40.43 9.89	21.99
22 13 16 00-0651 EA 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	51.30 12.67	28.14
22 13 16 00-0652 EA 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	80.58 17.02	37.82
22 13 16 00-0653 EA 4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	115.50 19.79	43.98
22 13 16 00-0654 Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0655 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	57.94 11.74	26.04
22 13 16 00-0656 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	81.47 14.65	32.54
22 13 16 00-0657 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	72.31 15.57	34.56
22 13 16 00-0658 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	103.46 17.42	38.70
22 13 16 00-0659 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	112.07 18.87	41.87
22 13 16 00-0660 Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0661 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	55.97 13.19	29.29
22 13 16 00-0662 EA 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	69.10 16.89	37.47
22 13 16 00-0663 EA 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	97.89 22.69	50.40
22 13 16 00-0664 EA 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	205.17 26.39	58.58
22 13 16 00-0665 EA 6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	539.88 34.30	76.17
22 13 16 00-0666 Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0667 EA 2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	89.36 15.04	33.43
22 13 16 00-0668 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	132.42 19.79	43.98
22 13 16 00-0669 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	195.97 21.64	48.03
22 13 16 00-0670 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	190.19 24.54	54.44
22 13 16 00-0671 EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	379.15 30.35	67.37
22 13 16 00-0672 Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <small>(22 13 16 00-0530)</small>		
22 13 16 00-0673 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	64.05 12.67	28.14
22 13 16 00-0674 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	98.44 17.02	37.82
22 13 16 00-0675 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	138.52 19.79	43.98
22 13 16 00-0676 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	296.58 25.73	57.08
22 13 16 00-0677 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	377.93 34.63	76.87
22 13 16 00-0678 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	502.09 46.18	102.47
22 13 16 00-0679 Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <small>(22 13 16 00-0530)</small>		
22 13 16 00-0680 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	25.76 6.60	14.69
22 13 16 00-0681 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	34.23 8.44	18.74
22 13 16 00-0682 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	47.19 11.35	25.15

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0683	EA		4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	66.01 13.19	29.29
22 13 16 00-0684	EA		6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	117.63 17.15	38.08
22 13 16 00-0685	EA		8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	224.38 23.09	51.28
22 13 16 00-0686	EA		10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	383.00 30.77	68.34
22 13 16 00-0687			Polyvinyl Chloride (PVC) Couplings (22 13 16 00-0530)		
22 13 16 00-0688	EA		1-1/2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	23.11 6.60	14.69
22 13 16 00-0689	EA		2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	29.40 8.44	18.74
22 13 16 00-0690	EA		3" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	41.04 11.35	25.15
22 13 16 00-0691	EA		4" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	49.26 13.19	29.29
22 13 16 00-0692	EA		6" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	86.33 17.15	38.08
22 13 16 00-0693	EA		8" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	161.19 23.09	51.28
22 13 16 00-0694	EA		10" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	233.15 30.79	68.34
22 13 16 00-0695			Polyvinyl Chloride (PVC) Male Adapters (22 13 16 00-0530)		
22 13 16 00-0696	EA		1-1/2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	12.13 3.30	7.30
22 13 16 00-0697	EA		2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	16.86 4.22	9.41
22 13 16 00-0698	EA		3" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	26.63 5.67	12.58
22 13 16 00-0699	EA		4" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	39.69 6.60	14.69
22 13 16 00-0700			Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe (22 13 16 00-0504) Note: In place piping.		
22 13 16 00-0701	EA		1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	6.45	
22 13 16 00-0702	EA		2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	7.10	
22 13 16 00-0703	EA		3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	9.03	
22 13 16 00-0704	EA		4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	12.18	
22 13 16 00-0705	EA		6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	17.41	
22 13 16 00-0706	EA		8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	23.22	
22 13 16 00-0707	EA		10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	28.38	
22 13 16 00-0708			Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings (22 13 16) Note: Aboveground installation.		
22 13 16 00-0709			Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies (22 13 16 00-0708) Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0710	LF		1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	18.68 5.06	3.69
22 13 16 00-0711	LF		2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	20.71 5.60	4.40
22 13 16 00-0712	LF		3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	26.89 6.96	6.33
22 13 16 00-0713	LF		4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	30.41 7.73	6.86
22 13 16 00-0714	LF		6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	45.45 10.28	8.79
22 13 16 00-0715			Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628) (22 13 16 00-0708) Note: Excludes fittings or hangers.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0716	LF	1-1/2"	Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	6.49 1.65	3.69
22 13 16 00-0717	LF	2"	Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	7.93 1.98	4.40
22 13 16 00-0718	LF	3"	Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	12.24 2.84	6.33
22 13 16 00-0719	LF	4"	Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	14.23 3.08	6.86
22 13 16 00-0720	LF	6"	Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	20.52 3.73	8.30
22 13 16 00-0721			Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661) <small>(22 13 16 00-0708)</small>		
22 13 16 00-0722			Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <small>(22 13 16 00-0721)</small>		
22 13 16 00-0723	EA	1-1/2"	Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	26.24 6.60	14.69
22 13 16 00-0724	EA	2"	Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	34.20 8.44	18.74
22 13 16 00-0725	EA	3"	Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	56.53 11.35	25.15
22 13 16 00-0726	EA	4"	Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	80.65 13.19	29.29
22 13 16 00-0727	EA	6"	Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	194.02 17.15	38.08
22 13 16 00-0728			Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <small>(22 13 16 00-0721)</small>		
22 13 16 00-0729	EA	1-1/2"	Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	32.12 6.60	14.69
22 13 16 00-0730	EA	2"	Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	39.95 8.44	18.74
22 13 16 00-0731	EA	3"	Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	70.80 11.35	25.15
22 13 16 00-0732	EA	4"	Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	109.03 13.19	29.29
22 13 16 00-0733			Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <small>(22 13 16 00-0721)</small>		
22 13 16 00-0734	EA	1-1/2"	Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	27.04 6.60	14.69
22 13 16 00-0735	EA	2"	Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	33.65 8.44	18.74
22 13 16 00-0736	EA	3"	Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	53.61 11.35	25.15
22 13 16 00-0737	EA	4"	Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	75.25 13.19	29.29
22 13 16 00-0738	EA	6"	Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	199.72 17.15	38.08
22 13 16 00-0739			Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <small>(22 13 16 00-0721)</small>		
22 13 16 00-0740	EA	1-1/2"	Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	40.22 9.89	21.99
22 13 16 00-0741	EA	2"	Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	53.10 12.67	28.14
22 13 16 00-0742	EA	3"	Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	84.46 17.02	37.82
22 13 16 00-0743	EA	4"	Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	119.25 19.79	43.98
22 13 16 00-0744	EA	6"	Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	374.55 25.73	57.08
22 13 16 00-0745			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <small>(22 13 16 00-0721)</small>		
22 13 16 00-0746	EA	2" x 1-1/2" x 1-1/2"	Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	47.60 10.82	24.01
22 13 16 00-0747	EA	2" x 1-1/2" x 2"	Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	55.35 11.74	26.04
22 13 16 00-0748	EA	2" x 2" x 1-1/2"	Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	49.57 11.74	26.04
22 13 16 00-0749	EA	3" x 3" x 1-1/2"	Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	70.00 14.65	32.54
22 13 16 00-0750	EA	3" x 3" x 2"	Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	73.27 15.57	34.56
22 13 16 00-0751	EA	4" x 4" x 1-1/2"	Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	131.77 16.49	36.59
22 13 16 00-0752	EA	4" x 4" x 2"	Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	129.74 17.42	38.70
22 13 16 00-0753	EA	4" x 4" x 3"	Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	146.95 18.87	41.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0754 EA 6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	402.05 23.75	52.68
22 13 16 00-0755 Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees (22 13 16 00-0721)		
22 13 16 00-0756 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	65.97 13.19	29.29
22 13 16 00-0757 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	88.39 16.89	37.47
22 13 16 00-0758 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	165.78 22.69	50.40
22 13 16 00-0759 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	232.43 26.39	58.58
22 13 16 00-0760 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees (22 13 16 00-0721)		
22 13 16 00-0761 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	75.09 15.04	33.43
22 13 16 00-0762 EA 3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	105.75 17.94	39.84
22 13 16 00-0763 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	120.32 19.79	43.98
22 13 16 00-0764 EA 4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	187.75 20.41	45.30
22 13 16 00-0765 EA 4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	200.18 23.15	51.36
22 13 16 00-0766 Acrylonitrile Butadiene Styrene (ABS) DWV Wyes (22 13 16 00-0721)		
22 13 16 00-0767 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	47.56 9.89	21.99
22 13 16 00-0768 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	57.19 12.67	28.14
22 13 16 00-0769 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	89.85 17.02	37.82
22 13 16 00-0770 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	127.68 19.79	43.98
22 13 16 00-0771 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	312.20 25.73	57.08
22 13 16 00-0772 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes (22 13 16 00-0721)		
22 13 16 00-0773 EA 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	62.07 10.82	24.01
22 13 16 00-0774 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	64.88 11.74	26.04
22 13 16 00-0775 EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	77.64 15.57	34.56
22 13 16 00-0776 EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	107.64 17.42	38.70
22 13 16 00-0777 EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	120.82 18.87	41.87
22 13 16 00-0778 EA 6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	266.25 23.75	52.68
22 13 16 00-0779 Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes (22 13 16 00-0721)		
22 13 16 00-0780 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	74.98 13.19	29.29
22 13 16 00-0781 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	96.18 16.89	37.47
22 13 16 00-0782 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	178.73 22.69	50.40
22 13 16 00-0783 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	296.79 26.39	58.58
22 13 16 00-0784 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes (22 13 16 00-0721)		
22 13 16 00-0785 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	86.56 15.04	33.43
22 13 16 00-0786 EA 3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	132.52 17.94	39.84
22 13 16 00-0787 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	142.50 19.79	43.98
22 13 16 00-0788 EA 4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	197.32 21.64	48.03
22 13 16 00-0789 EA 4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	247.18 24.54	54.44



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0790 Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend <small>(22 13 16 00-0721)</small>		
22 13 16 00-0791 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	56.26 9.89	21.99
22 13 16 00-0792 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	72.48 12.67	28.14
22 13 16 00-0793 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	106.59 17.02	37.82
22 13 16 00-0794 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	160.10 18.67	41.48
22 13 16 00-0795 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend <small>(22 13 16 00-0721)</small>		
22 13 16 00-0796 EA 2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	63.64 11.74	26.04
22 13 16 00-0797 EA 3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	106.84 14.65	32.54
22 13 16 00-0798 EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	88.16 15.57	34.56
22 13 16 00-0799 EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	138.83 17.42	38.70
22 13 16 00-0800 EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	150.35 18.87	41.87
22 13 16 00-0801 Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend <small>(22 13 16 00-0721)</small>		
22 13 16 00-0802 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	111.08 16.89	37.47
22 13 16 00-0803 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	201.98 22.69	50.40
22 13 16 00-0804 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend <small>(22 13 16 00-0721)</small>		
22 13 16 00-0805 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	94.22 15.04	33.43
22 13 16 00-0806 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	190.16 19.79	43.98
22 13 16 00-0807 Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <small>(22 13 16 00-0721)</small>		
22 13 16 00-0808 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	60.37 9.89	21.99
22 13 16 00-0809 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	76.58 12.67	28.14
22 13 16 00-0810 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	115.75 17.02	37.82
22 13 16 00-0811 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	176.30 19.79	43.98
22 13 16 00-0812 Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <small>(22 13 16 00-0721)</small>		
22 13 16 00-0813 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	31.38 6.60	14.69
22 13 16 00-0814 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	43.29 8.44	18.74
22 13 16 00-0815 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	61.10 11.35	25.15
22 13 16 00-0816 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	98.79 13.19	29.29
22 13 16 00-0817 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	207.66 17.15	38.08
22 13 16 00-0818 Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <small>(22 13 16 00-0721)</small>		
22 13 16 00-0819 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	25.23 6.60	14.69
22 13 16 00-0820 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	31.55 8.44	18.74
22 13 16 00-0821 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	47.10 11.35	25.15
22 13 16 00-0822 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	59.28 13.19	29.29
22 13 16 00-0823 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	132.80 17.15	38.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0824 Acrylonitrile Butadiene Styrene (ABS) DWV Reducers (22 13 16 00-0721)		
22 13 16 00-0825 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers .....33.26		16.71
For Work In Restricted Working Space, Add	7.52	
22 13 16 00-0826 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers .....55.91		19.88
For Work In Restricted Working Space, Add	8.97	
22 13 16 00-0827 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers .....54.79		21.99
For Work In Restricted Working Space, Add	9.89	
22 13 16 00-0828 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers .....79.07		24.01
For Work In Restricted Working Space, Add	10.82	
22 13 16 00-0829 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers .....85.90		27.27
For Work In Restricted Working Space, Add	12.27	
22 13 16 00-0830 Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps (22 13 16 00-0721)		
22 13 16 00-0831 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps .....48.88		21.99
For Work In Restricted Working Space, Add	9.89	
22 13 16 00-0832 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps .....67.96		28.14
For Work In Restricted Working Space, Add	12.67	
22 13 16 00-0833 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps .....174.63		37.82
For Work In Restricted Working Space, Add	17.02	
22 13 16 00-0834 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps .....307.52		43.98
For Work In Restricted Working Space, Add	19.79	
22 13 16 00-0835 Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges (22 13 16 00-0721)		
22 13 16 00-0836 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges .....66.19		29.29
For Work In Restricted Working Space, Add	13.19	
22 13 16 00-0837 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges .....61.73		27.27
For Work In Restricted Working Space, Add	12.27	
22 13 16 00-0838 Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters (22 13 16 00-0721)		
22 13 16 00-0839 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters .....15.13		7.30
For Work In Restricted Working Space, Add	3.30	
22 13 16 00-0840 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters .....21.40		9.41
For Work In Restricted Working Space, Add	4.22	
22 13 16 00-0841 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters .....40.23		12.58
For Work In Restricted Working Space, Add	5.67	
22 13 16 00-0842 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters .....69.16		14.69
For Work In Restricted Working Space, Add	6.60	
22 13 16 00-0843 Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings (22 13 16 00-0721)		
22 13 16 00-0844 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing .....28.47		16.71
For Work In Restricted Working Space, Add	7.52	
22 13 16 00-0845 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing .....48.30		19.88
For Work In Restricted Working Space, Add	8.97	
22 13 16 00-0846 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing .....44.67		21.99
For Work In Restricted Working Space, Add	9.89	
22 13 16 00-0847 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing .....78.48		24.01
For Work In Restricted Working Space, Add	10.82	
22 13 16 00-0848 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing .....65.48		27.27
For Work In Restricted Working Space, Add	12.27	
22 13 16 00-0849 EA 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing .....144.10		31.77
For Work In Restricted Working Space, Add	14.31	
22 13 16 00-0850 Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings (22 13 16 00-0721)		
22 13 16 00-0851 EA 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling .....40.49		14.69
For Work In Restricted Working Space, Add	6.60	
22 13 16 00-0852 EA 2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling .....47.87		18.74
For Work In Restricted Working Space, Add	8.44	
22 13 16 00-0853 EA 3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling .....58.79		25.15
For Work In Restricted Working Space, Add	11.35	
22 13 16 00-0854 EA 4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling .....66.18		29.29
For Work In Restricted Working Space, Add	13.19	
22 13 16 00-0855 Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe (22 13 16 00-0708) Note: In place piping.		
22 13 16 00-0856 EA 1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....6.45		
22 13 16 00-0857 EA 2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....7.10		
22 13 16 00-0858 EA 3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....9.03		
22 13 16 00-0859 EA 4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....12.18		
22 13 16 00-0860 EA 6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....17.41		
22 13 16 00-0861 Elastomeric Flexible Pipe Couplings (22 13 16)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<p>22 13 16 00-0862 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings <small>(22 13 16 00-0861)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.</p>						
	22 13 16 00-0863	EA		1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-125) 12.44		3.82
				<i>For Work In Restricted Working Space, Add</i> 2.29		
	22 13 16 00-0864	EA		1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150) 13.45		4.06
				<i>For Work In Restricted Working Space, Add</i> 2.44		
	22 13 16 00-0865	EA		2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22) 14.12		4.30
				<i>For Work In Restricted Working Space, Add</i> 2.58		
	22 13 16 00-0866	EA		3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33) 16.54		4.54
				<i>For Work In Restricted Working Space, Add</i> 2.72		
	22 13 16 00-0867	EA		4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44) 18.89		4.78
				<i>For Work In Restricted Working Space, Add</i> 2.87		
	22 13 16 00-0868	EA		5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55) 24.67		5.02
				<i>For Work In Restricted Working Space, Add</i> 3.01		
	22 13 16 00-0869	EA		6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66) 30.48		5.26
				<i>For Work In Restricted Working Space, Add</i> 3.15		
	22 13 16 00-0870	EA		8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88) 42.19		5.73
				<i>For Work In Restricted Working Space, Add</i> 3.44		
	22 13 16 00-0871	EA		10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010) 56.09		6.69
				<i>For Work In Restricted Working Space, Add</i> 4.01		
<p>22 13 16 00-0872 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings <small>(22 13 16 00-0861)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.</p>						
	22 13 16 00-0873	EA		1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-150/125) 13.26		4.06
				<i>For Work In Restricted Working Space, Add</i> 2.44		
	22 13 16 00-0874	EA		2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-215) 14.43		4.30
				<i>For Work In Restricted Working Space, Add</i> 2.58		
	22 13 16 00-0875	EA		3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-315) 18.08		4.54
				<i>For Work In Restricted Working Space, Add</i> 2.72		
	22 13 16 00-0876	EA		3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-32) 15.98		4.54
				<i>For Work In Restricted Working Space, Add</i> 2.72		
	22 13 16 00-0877	EA		4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-415) 22.68		4.78
				<i>For Work In Restricted Working Space, Add</i> 2.87		
	22 13 16 00-0878	EA		4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-42) 21.61		4.78
				<i>For Work In Restricted Working Space, Add</i> 2.87		
	22 13 16 00-0879	EA		4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-43) 19.61		4.78
				<i>For Work In Restricted Working Space, Add</i> 2.87		
	22 13 16 00-0880	EA		5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-53) 29.36		5.02
				<i>For Work In Restricted Working Space, Add</i> 3.01		
	22 13 16 00-0881	EA		5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-54) 26.31		5.02
				<i>For Work In Restricted Working Space, Add</i> 3.01		
	22 13 16 00-0882	EA		6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-63) 36.79		5.26
				<i>For Work In Restricted Working Space, Add</i> 3.15		
	22 13 16 00-0883	EA		6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-64) 32.22		5.26
				<i>For Work In Restricted Working Space, Add</i> 3.15		
	22 13 16 00-0884	EA		6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-65) 33.49		5.26
				<i>For Work In Restricted Working Space, Add</i> 3.15		
	22 13 16 00-0885	EA		8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-84) 66.13		9.55
				<i>For Work In Restricted Working Space, Add</i> 5.73		
	22 13 16 00-0886	EA		8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-86) 53.46		9.55
				<i>For Work In Restricted Working Space, Add</i> 5.73		
	22 13 16 00-0887	EA		10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-10-8) 68.27		10.75
				<i>For Work In Restricted Working Space, Add</i> 6.45		
<p>22 13 16 00-0888 Elastomeric Flexible Pipe Caps <small>(22 13 16)</small> Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp. Fernco QC.</p>						
	22 13 16 00-0889	EA		1-1/2" Elastomeric Flexible Pipe Cap (Fernco QC-101) 43.31		25.80
	22 13 16 00-0890	EA		2" Elastomeric Flexible Pipe Cap (Fernco QC-102) 46.58		27.43
	22 13 16 00-0891	EA		3" Elastomeric Flexible Pipe Cap (Fernco QC-103) 54.08		31.44
	22 13 16 00-0892	EA		4" Elastomeric Flexible Pipe Cap (Fernco QC-104) 71.29		41.57
	22 13 16 00-0893	EA		5" Elastomeric Flexible Pipe Cap (Fernco QC-105) 85.54		49.70
	22 13 16 00-0894	EA		6" Elastomeric Flexible Pipe Cap (Fernco QC-106) 98.27		57.34
	22 13 16 00-0895	EA		8" Elastomeric Flexible Pipe Cap (Fernco QC-108) 133.74		72.63
	22 13 16 00-0896	EA		10" Elastomeric Flexible Pipe Cap (Fernco QC-110) 167.85		81.23
	22 13 16 00-0897	EA		12" Elastomeric Flexible Pipe Cap (Fernco QC-112) 218.08		90.30
<p>22 13 16 00-0898 Cast Iron Vent Stack Flashing Sleeves With Caulking Recess <small>(22 13 16)</small> Note: Josam 26450 Series.</p>						
	22 13 16 00-0899	EA		1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess 84.45		19.79
	22 13 16 00-0900	EA		2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess 88.85		21.99
	22 13 16 00-0901	EA		3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess 134.09		28.59
	22 13 16 00-0902	EA		4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess 157.32		32.98
	22 13 16 00-0903	EA		5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess 183.73		37.38
	22 13 16 00-0904	EA		6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess 314.32		41.78



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 13 16 00-0905	Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (22 13 16)		
	Note: Josam 26440 Series		
22 13 16 00-0906	EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	147.08	19.79
22 13 16 00-0907	EA 2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	151.48	21.99
22 13 16 00-0908	EA 3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	180.74	28.59
22 13 16 00-0909	EA 4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	225.36	32.98
22 13 16 00-0910	EA 5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	305.82	37.38
22 13 16 00-0911	EA 6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	314.62	41.78

22 13 16 00-0912	Cast Iron Vandal Proof Hooded Vent Cap (22 13 16)		
	Note: Includes counterflashing collar, deep protective hood and recessed securing screws. Josam 26700 Series.		
22 13 16 00-0913	EA 1-1/2" Cast Iron Vandal Proof Hooded Vent Cap	275.99	19.79
22 13 16 00-0914	EA 2" Cast Iron Vandal Proof Hooded Vent Cap	280.39	21.99
22 13 16 00-0915	EA 3" Cast Iron Vandal Proof Hooded Vent Cap	323.13	28.59
22 13 16 00-0916	EA 4" Cast Iron Vandal Proof Hooded Vent Cap	363.95	32.98
22 13 16 00-0917	EA 5" Cast Iron Vandal Proof Hooded Vent Cap	424.46	37.38
22 13 16 00-0918	EA 6" Cast Iron Vandal Proof Hooded Vent Cap	464.04	41.78

22 13 19 Sanitary Waste Piping Specialties (22 13)

22 13 19 13 Sanitary Drains (22 13 19)

22 13 19 13-0001	Round Top Floor Drains (22 13 19 13)		
22 13 19 13-0002	EA 6" Round Top Floor Drain With 1-1/2" Outlet, Bronze Top	613.53	94.55
	For Vandal Proof Screws, Add	11.00	
	For Galvanized Cast Iron Parts, Add	105.00	
	For Sediment Bucket, Add	22.50	
22 13 19 13-0003	EA 6" Round Top Floor Drain With 2" Outlet, Bronze Top	674.35	105.99
	For Vandal Proof Screws, Add	11.00	
	For Galvanized Cast Iron Parts, Add	105.00	
	For Sediment Bucket, Add	22.50	
22 13 19 13-0004	EA 6" Round Top Floor Drain With 3" Outlet, Bronze Top	659.01	117.25
	For Vandal Proof Screws, Add	11.00	
	For Galvanized Cast Iron Parts, Add	105.00	
	For Sediment Bucket, Add	22.50	
22 13 19 13-0005	EA 6" Round Top Floor Drain With 4" Outlet, Bronze Top	683.16	129.38
	For Vandal Proof Screws, Add	11.00	
	For Galvanized Cast Iron Parts, Add	105.00	
	For Sediment Bucket, Add	22.50	
22 13 19 13-0006	EA 9" Round Top Floor Drain With 2" Outlet, Cast Iron Top	616.84	105.99
	For Vandal Proof Screws, Add	30.50	
	For Ductile Iron Grate, Add	48.00	
	For Cast Iron Dome Grate, Add	17.00	
	For Nikaloy Dome Grate, Add	178.50	
	For Bronze Dome Grate, Add	143.00	
	For Cast Iron Extension Collar, Each 3", Add	57.50	
	For Galvanized Extension Collar, Each 3", Add	117.50	
	For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0007	EA 9" Round Top Floor Drain With 3" Outlet, Cast Iron Top	639.45	117.25
	For Vandal Proof Screws, Add	30.50	
	For Ductile Iron Grate, Add	48.00	
	For Cast Iron Dome Grate, Add	17.00	
	For Nikaloy Dome Grate, Add	178.50	
	For Bronze Dome Grate, Add	143.00	
	For Cast Iron Extension Collar, Each 3", Add	57.50	
	For Galvanized Extension Collar, Each 3", Add	117.50	
	For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0008	EA 9" Round Top Floor Drain With 4" Outlet, Cast Iron Top	663.60	129.38
	For Vandal Proof Screws, Add	30.50	
	For Ductile Iron Grate, Add	48.00	
	For Cast Iron Dome Grate, Add	17.00	
	For Nikaloy Dome Grate, Add	178.50	
	For Bronze Dome Grate, Add	143.00	
	For Cast Iron Extension Collar, Each 3", Add	57.50	
	For Galvanized Extension Collar, Each 3", Add	117.50	
	For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0009	EA 9" Round Top Floor Drain With 2" Outlet, Nikaloy Top	1,019.79	105.99
	For Vandal Proof Screws, Add	30.50	
	For Ductile Iron Grate, Add	48.00	
	For Cast Iron Dome Grate, Add	17.00	
	For Nikaloy Dome Grate, Add	178.50	
	For Bronze Dome Grate, Add	143.00	
	For Cast Iron Extension Collar, Each 3", Add	57.50	
	For Galvanized Extension Collar, Each 3", Add	117.50	
	For Galvanized Cast Iron Parts, Add	87.50	



Plumbing	22
Plumbing Piping	22 10
Facility Sanitary Sewerage	22 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0010 EA 9" Round Top Floor Drain With 3" Outlet, Nikaloy Top	1,042.40	117.25
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0011 EA 9" Round Top Floor Drain With 4" Outlet, Nikaloy Top	1,066.55	129.38
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0012 EA 9" Round Top Floor Drain With 2" Outlet, Bronze Top	961.11	105.99
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0013 EA 9" Round Top Floor Drain With 3" Outlet, Bronze Top	983.60	117.25
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0014 EA 9" Round Top Floor Drain With 4" Outlet, Bronze Top	1,007.87	129.38
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0015 EA 12-5/8" Round Top Floor Drain With 2" Outlet, Cast Iron Top	1,054.90	105.90
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0016 EA 12-5/8" Round Top Floor Drain With 3" Outlet, Cast Iron Top	1,077.49	117.25
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0017 EA 12-5/8" Round Top Floor Drain With 4" Outlet, Cast Iron Top	1,101.76	129.38
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0018 EA 12-5/8" Round Top Floor Drain With 2" Outlet, Nikaloy Top	1,657.36	105.90
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0019 EA 12-5/8" Round Top Floor Drain With 3" Outlet, Nikaloy Top.....	1,679.95	117.25
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0020 EA 12-5/8" Round Top Floor Drain With 4" Outlet, Nikaloy Top.....	1,704.22	129.38
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0021 EA 12-5/8" Round Top Floor Drain With 2" Outlet, Bronze Top.....	1,577.16	105.90
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0022 EA 12-5/8" Round Top Floor Drain With 3" Outlet, Bronze Top.....	1,599.75	117.25
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0023 EA 12-5/8" Round Top Floor Drain With 4" Outlet, Bronze Top.....	1,624.02	129.38
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0024 Square Or Rectangular Top Drains <small>(22 13 19 13)</small>		
22 13 19 13-0025 EA 5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	728.24	105.90
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0026 EA 5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	751.08	117.33
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0027 EA 5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	775.10	129.38
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0028 EA 6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	786.92	105.90
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0029 EA 6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	809.76	117.33
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0030 EA 6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	833.78	129.38
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0031 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,045.12	105.90
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0032 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,067.96	117.33
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0033 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,091.98	129.38
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0034	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	685.20 11.00 105.00 22.50	105.90
22 13 19 13-0035	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	708.04 11.00 105.00 22.50	117.33
22 13 19 13-0036	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	732.06 11.00 105.00 22.50	129.38
22 13 19 13-0037	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	759.53 11.00 105.00 22.50	105.90
22 13 19 13-0038	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	782.37 11.00 105.00 22.50	117.33
22 13 19 13-0039	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	806.39 11.00 105.00 22.50	129.38
22 13 19 13-0040	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	968.83 11.00 105.00 22.50	105.90
22 13 19 13-0041	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	991.67 11.00 105.00 22.50	117.33
22 13 19 13-0042	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	1,015.69 11.00 105.00 22.50	129.38
22 13 19 13-0043	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	2,501.74 318.00 48.50 76.00	117.33
22 13 19 13-0044	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	2,525.76 318.00 48.50 76.00	129.38
22 13 19 13-0045	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	3,139.41 318.00 48.50 76.00	117.33
22 13 19 13-0046	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	3,163.43 318.00 48.50 76.00	129.38
22 13 19 13-0047	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	3,063.13 318.00 48.50 76.00	117.33
22 13 19 13-0048	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	3,087.15 318.00 48.50 76.00	129.38
22 13 19 13-0049	EA		5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,060.77 11.00 120.94 22.50	105.90
22 13 19 13-0050	EA		5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,083.61 11.00 120.94 22.50	117.33
22 13 19 13-0051	EA		5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,107.63 11.00 120.94 22.50	129.38
22 13 19 13-0052	EA		5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,363.95 11.00 120.94 22.50	105.90
22 13 19 13-0053	EA		5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,386.79 11.00 120.94 22.50	117.33
22 13 19 13-0054	EA		5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,410.81 11.00 120.94 22.50	129.38

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0055	EA		5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,434.37	105.90
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0056	EA		5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,457.21	117.33
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0057	EA		5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,481.23	129.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0058	EA		5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,980.11	105.90
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0059	EA		5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,002.95	117.33
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0060	EA		5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	2,026.97	129.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0061	EA		5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top.....	998.17	105.90
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0062	EA		5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,021.01	117.33
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0063	EA		5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,045.03	129.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0064	EA		5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,256.37	105.90
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0065	EA		5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,279.21	117.33
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0066	EA		5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,303.23	129.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0067	EA		5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,326.79	105.90
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0068	EA		5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,349.63	117.33
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0069	EA		5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,373.65	129.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0070	EA		5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,770.81	105.90
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0071	EA		5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,793.65	117.33
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0072	EA		5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,817.67	129.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0073			Funnel Type Floor Drains <small>(22 13 19 13)</small>		
22 13 19 13-0074	EA		7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top.....	1,000.91	94.55
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0075	EA		7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top.....	1,023.60	105.90
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0076 EA 7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top	1,046.19	117.25
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0077 EA 7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top	1,070.46	129.38
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0078 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top	1,463.71	105.90
For Vandal Proof Screws, Add	11.00	
For Primer Tap, Add	15.10	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0079 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top	1,486.30	117.25
For Vandal Proof Screws, Add	11.00	
For Primer Tap, Add	15.10	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0080 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top	1,510.57	129.38
For Vandal Proof Screws, Add	11.00	
For Primer Tap, Add	15.10	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0081 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top	1,387.43	105.90
For Vandal Proof Screws, Add	11.00	
For Primer Tap, Add	15.10	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0082 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top	1,410.02	117.25
For Vandal Proof Screws, Add	11.00	
For Primer Tap, Add	15.10	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0083 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top	1,434.29	129.38
For Vandal Proof Screws, Add	11.00	
For Primer Tap, Add	15.10	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0084 Floor Drain With Sediment Bucket Bottom Outlet <small>(22 13 19 13)</small>		
22 13 19 13-0085 EA 12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap	2,119.69	94.55
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	247.00	
For Primer Tap, Add	33.50	
22 13 19 13-0086 EA 12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap	2,142.46	105.90
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	247.00	
For Primer Tap, Add	33.50	
22 13 19 13-0087 EA 12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap	2,165.05	117.25
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	247.00	
For Primer Tap, Add	33.50	
22 13 19 13-0088 EA 12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap	2,189.32	129.38
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	247.00	
For Primer Tap, Add	33.50	
22 13 19 13-0089 EA 12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap	2,214.35	141.87
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	247.00	
For Primer Tap, Add	33.50	
22 13 19 13-0090 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate	2,291.12	105.90
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0091 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate	2,313.96	117.33
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0092 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate	2,337.98	129.38
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0093 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate	2,363.01	141.87
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0094	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,408.94	105.90
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0095	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,431.78	117.33
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0096	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,455.80	129.38
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0097	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,480.83	141.87
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0098	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,138.55	105.90
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0099	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,161.39	117.33
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0100	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,185.41	129.38
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0101	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,210.44	141.87
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0102			Other Drains (22 13 19 13)		
22 13 19 13-0103			Shower Drains (22 13 19 13-0102)		
22 13 19 13-0104	EA		4-1/4" Stainless Steel Shower Drain Strainer.....	33.08	9.55
			Note: Includes two 2-5/8" screws.		
22 13 19 13-0105	EA		4-1/4" Brass Shower Drain Strainer.....	36.36	9.55
			Note: Includes two 2-5/8" screws.		
22 13 19 13-0106	EA		4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe.....	77.65	19.11
			Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.		
22 13 19 13-0107	EA		4" Chrome Finish, Threaded Brass Shower Drain And Gasket.....	96.49	19.11
			Note: For 2" pipe. Kohler K-9132.		
22 13 19 13-0108			Acid Resistant Floor Drains (22 13 19 13-0102)		
22 13 19 13-0109	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	1,008.65	94.55
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	87.50	
			For Primer Tap, Add	33.50	
22 13 19 13-0110	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	1,031.42	105.90
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	87.50	
			For Primer Tap, Add	33.50	
22 13 19 13-0111	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	1,054.01	117.25
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	87.50	
			For Primer Tap, Add	33.50	
22 13 19 13-0112			Rotary And Lever Drains (22 13 19 13-0102)		
22 13 19 13-0113	EA		1-1/2" Drain, 3" Sink Opening Lever Drain.....	210.26	63.77
22 13 19 13-0114	EA		2" Drain, 3" Sink Opening Lever Drain.....	223.45	70.36
22 13 19 13-0115	EA		1-1/2" Drain, 3-1/2" Sink Opening Lever Drain.....	210.26	63.77
22 13 19 13-0116	EA		2" Drain, 3-1/2" Sink Opening Lever Drain.....	223.45	70.36
22 13 19 13-0117	EA		1-1/2" Drain, 3" Sink Opening Twist Drain.....	210.26	63.77
22 13 19 13-0118	EA		2" Drain, 3" Sink Opening Twist Drain.....	223.45	70.36



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0119 EA 1-1/2" Drain, 3-1/2" Sink Opening Twist Drain.....	210.26	63.77
22 13 19 13-0120 EA 2" Drain, 3-1/2" Sink Opening Twist Drain.....	223.45	70.36
22 13 19 13-0121 EA 1-1/2"-2" Drain, 3-1/2" Sink Opening Rotary Twist Drain (Fisher 16100).....	287.27	70.36
22 13 19 13-0122 Floor Receptor (22 13 19 13)		
22 13 19 13-0123 9" Diameter Round Shallow Receptor (22 13 19 13-0122)		
Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.		
22 13 19 13-0124 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection	1,236.95	105.99
<i>For Flange With Seepage Holes, Add</i>		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>		
<i>For Trap Primer Connection, Add</i>		
<i>For Full Grate With 2" Square Center Opening, Add</i>		
<i>For Vandal Proof Secured Grate, Add</i>		
<i>For White Acid Resistant Bucket, Add</i>		
<i>For Stainless Steel Liner For Bucket, Add</i>		
22 13 19 13-0125 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection	1,259.90	117.42
<i>For Flange With Seepage Holes, Add</i>		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>		
<i>For Trap Primer Connection, Add</i>		
<i>For Full Grate With 2" Square Center Opening, Add</i>		
<i>For Vandal Proof Secured Grate, Add</i>		
<i>For White Acid Resistant Bucket, Add</i>		
<i>For Stainless Steel Liner For Bucket, Add</i>		
22 13 19 13-0126 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection	1,283.67	129.38
<i>For Flange With Seepage Holes, Add</i>		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>		
<i>For Trap Primer Connection, Add</i>		
<i>For Full Grate With 2" Square Center Opening, Add</i>		
<i>For Vandal Proof Secured Grate, Add</i>		
<i>For White Acid Resistant Bucket, Add</i>		
<i>For Stainless Steel Liner For Bucket, Add</i>		
22 13 19 13-0127 Square Top Floor Receptors (22 13 19 13-0122)		
Note: With acid resistant coating.		
22 13 19 13-0128 EA 8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top	1,456.67	94.55
<i>For Flange With Seepage Holes, Add</i>		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>		
<i>For Trap Primer Connection, Add</i>		
<i>For Full Grate With 2" Square Center Opening, Add</i>		
<i>For Vandal Proof Secured Grate, Add</i>		
<i>For White Acid Resistant Bucket, Add</i>		
<i>For Stainless Steel Liner For Bucket, Add</i>		
22 13 19 13-0129 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	1,479.46	105.99
<i>For Flange With Seepage Holes, Add</i>		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>		
<i>For Trap Primer Connection, Add</i>		
<i>For Full Grate With 2" Square Center Opening, Add</i>		
<i>For Vandal Proof Secured Grate, Add</i>		
<i>For White Acid Resistant Bucket, Add</i>		
<i>For Stainless Steel Liner For Bucket, Add</i>		
22 13 19 13-0130 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	1,501.95	117.25
<i>For Flange With Seepage Holes, Add</i>		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>		
<i>For Trap Primer Connection, Add</i>		
<i>For Full Grate With 2" Square Center Opening, Add</i>		
<i>For Vandal Proof Secured Grate, Add</i>		
<i>For White Acid Resistant Bucket, Add</i>		
<i>For Stainless Steel Liner For Bucket, Add</i>		
22 13 19 13-0131 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	1,526.22	129.38
<i>For Flange With Seepage Holes, Add</i>		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>		
<i>For Trap Primer Connection, Add</i>		
<i>For Full Grate With 2" Square Center Opening, Add</i>		
<i>For Vandal Proof Secured Grate, Add</i>		
<i>For White Acid Resistant Bucket, Add</i>		
<i>For Stainless Steel Liner For Bucket, Add</i>		
22 13 19 13-0132 Floor Drain Accessories (22 13 19 13)		
22 13 19 13-0133 EA 3" Trap Guard Floor Drain Insert (ProVent TG3H).....	68.51	11.00
Note: Prevents emission of sewer gases.		
22 13 19 13-0134 EA 2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22)	56.88	11.00
Note: Prevents emission of sewer gases.		
22 13 19 13-0135 EA 3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33)	61.53	11.00
Note: Prevents emission of sewer gases.		
22 13 19 13-0136 EA 3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP).....	73.16	11.00
Note: Prevents emission of sewer gases.		
22 13 19 13-0137 EA 3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP).....	66.18	11.00
Note: Prevents emission of sewer gases.		
22 13 19 13-0138 EA 2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02)	91.95	11.00
Note: Prevents emission of sewer gases.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0139 EA 3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03) Note: Prevents emission of sewer gases.	101.32	11.00
22 13 19 13-0140 EA 4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04) Note: Prevents emission of sewer gases.	124.56	11.00
22 13 19 26 Grease Removal Devices (22 13 19)		
22 13 19 26-0001 Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26) Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.		
22 13 19 26-0002 Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001) Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.		
22 13 19 26-0003 EA 7 GPM, 14 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60102H.	775.08	65.97
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,290.33	
22 13 19 26-0004 EA 10 GPM, 20 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60103H.	901.96	148.43
For Flange And Clamp Device, Add	359.12	
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,361.87	
22 13 19 26-0005 EA 15 GPM, 30 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60104H.	1,262.30	164.92
For Flange And Clamp Device, Add	370.11	
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,486.84	
22 13 19 26-0006 EA 20 GPM, 40 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60105H.	1,517.78	181.41
For Flange And Clamp Device, Add	381.11	
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,606.38	
22 13 19 26-0007 EA 25 GPM, 50 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60106H.	1,697.29	197.91
For Flange And Clamp Device, Add	422.50	
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,671.18	
22 13 19 26-0008 EA 35 GPM, 70 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60107H.	2,079.63	230.89
For Flange And Clamp Device, Add	455.69	
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,836.65	
22 13 19 26-0009 EA 50 GPM, 100 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60108H.	2,698.27	263.87
For Flange And Clamp Device, Add	518.64	
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,955.07	
22 13 19 26-0010 EA 75 GPM, 150 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60109H.	5,218.08	296.85
For Flange And Clamp Device, Add	741.91	
22 13 19 26-0011 EA 100 GPM, 200 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60110H.	5,883.81	344.06
For Flange And Clamp Device, Add	837.38	
22 13 19 26-0012 EA 150 GPM, 300 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60213A.	7,299.93	550.50
For Flange And Clamp Device, Add	1,135.00	
22 13 19 26-0013 EA 200 GPM, 400 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60214A.	10,442.69	688.13
For Flange And Clamp Device, Add	1,356.03	
22 13 19 26-0014 EA 250 GPM, 500 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60215A.	12,189.01	825.75
For Flange And Clamp Device, Add	1,760.74	
22 13 19 26-0015 EA 350 GPM, 700 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60216A,.	15,802.75	963.37
For Flange And Clamp Device, Add	2,090.25	
22 13 19 26-0016 EA 500 GPM, 1,000 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60217A.	20,398.22	1,101.00
For Flange And Clamp Device, Add	2,455.28	
22 13 19 26-0017 Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001) Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018 EA 20 GPM, 40 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60115A.	2,154.32	181.41
22 13 19 26-0019 EA 35 GPM, 70 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60117A.	2,770.42	230.89
22 13 19 26-0020 EA 50 GPM, 100 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Smith 8150.	4,524.30	263.87
22 13 19 26-0021 Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26) Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
22 13 19 26-0022 Standard Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0021) Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023 EA 7 GPM, 14 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60102-SA.	1,882.59	65.97
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,290.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0024 EA 10 GPM, 20 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60103-SA.	2,211.21	148.43
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,361.87	
22 13 19 26-0025 EA 15 GPM, 30 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60104-SA.	2,365.00	164.92
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,486.84	
22 13 19 26-0026 EA 20 GPM, 40 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60105-SA.	2,878.47	181.41
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,606.38	
22 13 19 26-0027 EA 25 GPM, 50 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60106-SA.	3,461.84	197.91
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,671.18	
22 13 19 26-0028 EA 35 GPM, 70 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60107-SA.	3,589.81	230.89
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,836.65	
22 13 19 26-0029 EA 50 GPM, 100 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60108-SA.	4,097.93	263.87
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,955.07	
22 13 19 26-0030 Low Profile Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0021)</small>		
Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031 EA 35 GPM, 70 LB Capacity Low Profile Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60115A-SA.	4,792.16	230.89
22 13 19 26-0032 Automatic Cleaning Stainless Steel Grease Interceptor <small>(22 13 19 26)</small>		
22 13 19 26-0033 EA 20 GPM, 69 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).	4,135.40	181.41
22 13 19 26-0034 EA 25 GPM, 91 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 25 Greasestopper).	4,795.11	197.91
22 13 19 26-0035 EA 35 GPM, 70 LB Capacity, 110 Volt, Automatic Cleaning Stainless Steel Grease Trap/Removal Device (Guardian GGX35)	4,142.36	230.89
22 13 19 26-0036 Precast Concrete Grease Interceptor <small>(22 13 19 26)</small>		
Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.		
22 13 19 26-0037 EA 1,000 Gallon Pre-Cast Grease Interceptor	4,547.93	307.51
22 13 19 26-0038 EA 1,250 Gallon Pre-Cast Grease Interceptor	5,207.67	307.51
22 13 19 26-0039 EA 1,500 Gallon Pre-Cast Grease Interceptor	5,910.38	351.55
22 13 19 26-0040 EA 2,000 Gallon Pre-Cast Grease Interceptor	6,716.66	496.48
22 13 19 26-0041 EA 2,500 Gallon Pre-Cast Grease Interceptor	7,552.12	667.97
22 13 19 26-0042 EA 4,000 Gallon Pre-Cast Grease Interceptor	11,339.10	878.82
22 13 19 26-0043 EA 5,000 Gallon Pre-Cast Grease Interceptor	14,527.69	1,441.14
22 13 19 26-0044 Coated Steel Manual Oil Interceptor <small>(22 13 19 26)</small>		
Note: Includes internal air relief, and flow control fitting.		
22 13 19 26-0045 EA 10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	2,919.99	251.32
22 13 19 26-0046 EA 15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	3,914.31	298.62
22 13 19 26-0047 EA 20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	4,742.26	367.42
22 13 19 26-0048 EA 25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	5,150.37	398.00
22 13 19 26-0049 EA 35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	6,160.35	434.31
22 13 19 26-0050 EA 50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	8,075.52	477.79
22 13 19 26-0051 EA 75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	13,430.64	549.74
22 13 19 26-0052 EA 100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	14,719.93	676.40
22 13 19 26-0053 EA 150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	18,026.34	733.12
22 13 19 26-0054 EA 200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	25,156.39	879.57
22 13 19 26-0055 EA 250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	28,987.47	945.54
22 13 19 26-0056 EA 350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	36,485.32	1,127.62
22 13 19 26-0057 EA 400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	43,844.69	924.00
22 13 19 26-0058 EA 500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	51,941.36	1,099.46
22 13 19 33 Backwater Valves <small>(22 13 19)</small>		
22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves <small>(22 13 19 33)</small>		
22 13 19 33-0002 EA 2" Cast Iron Body Terminal Backwater Valve	232.20	25.25
22 13 19 33-0003 EA 3" Cast Iron Body Terminal Backwater Valve	241.88	31.76
22 13 19 33-0004 EA 4" Cast Iron Body Terminal Backwater Valve	346.61	42.22
22 13 19 33-0005 EA 6" Cast Iron Body Terminal Backwater Valve	896.75	58.00
22 13 19 33-0006 EA 8" Cast Iron Body Terminal Backwater Valve	1,099.94	76.34
22 13 19 33-0007 EA 10" Cast Iron Body Terminal Backwater Valve	3,103.26	94.17
22 13 19 33-0008 EA 12" Cast Iron Body Terminal Backwater Valve	3,525.10	122.13
22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve <small>(22 13 19 33)</small>		
Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.		
22 13 19 33-0010 EA 2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	585.73	60.21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 33-0011 EA 3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	877.15	73.01
22 13 19 33-0012 EA 4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,088.41	94.12
22 13 19 33-0013 EA 6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,503.03	105.37
22 13 19 33-0014 EA 8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,065.25	124.87
22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve ^(22 13 19 33)		
Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.		
22 13 19 33-0016 EA 3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	1,512.32	95.26
22 13 19 33-0017 EA 4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	1,559.47	126.66
22 13 19 33-0018 EA 5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	2,250.77	156.06
22 13 19 33-0019 EA 6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	2,277.90	173.99
22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve ^(22 13 19 33)		
Note: Oatey.		
22 13 19 33-0021 EA 3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900).....	93.05	31.76
22 13 19 33-0022 EA 4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904).....	113.44	42.22
22 13 19 33-0023 EA 6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908).....	300.78	58.00
22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves ^(22 13 19 33)		
22 13 19 33-0025 EA 3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	214.18	63.51
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0026 EA 4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	285.19	84.44
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0027 EA 6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	477.54	115.99
Note: Includes valve body, flapper assembly and collar.		
22 13 19 36 Air-Admittance Valves ^(22 13 19)		
22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent ^(22 13 19 36)		
22 13 19 36-0002 EA 1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent.....	132.80	12.32
22 13 19 36-0003 EA 2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent.....	157.73	12.32
22 13 23 Sanitary Waste Interceptors ^(22 13)		
22 13 23 00-0001 Sediment Bucket Solids Interceptors ^(22 13 23)		
22 13 23 00-0002 EA 1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1180).....	750.13	124.55
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0003 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1184).....	751.01	124.55
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0004 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0).....	1,039.25	124.55
Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0005 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARI0).....	1,039.25	124.55
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0006 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030).....	1,104.51	124.55
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0007 Solid Interceptors, Cast Iron With Internal Deep Seal Trap ^(22 13 23)		
22 13 23 00-0008 EA 1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	307.76	42.61
For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0009 EA 2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	313.21	45.39
For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0010 Sediment Strainers ^(22 13 23)		
22 13 23 00-0011 EA 2" Strainer, Pump Suction Side.....	129.51	58.23
22 13 29 Sanitary Sewerage Pumps ^(22 13)		
Note: Includes extra set of gaskets, bearings and seals.		
22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps ^(22 13 29)		
22 13 29 13-0001 Vertical Non-Clog Sewage Pumps ^(22 13 29 13)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 13-0002 1-1/2" Solids 1,750 RPM Vertical Sewage Pumps <small>(22 13 29 13-0001)</small>		
22 13 29 13-0003 EA 1/2 HP, Up To 75 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM	4,670.30	1,055.13
22 13 29 13-0004 EA 3/4 HP, Up To 125 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM	4,827.65	1,055.13
22 13 29 13-0005 EA 1 HP, Up To 150 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM	4,985.00	1,055.13
22 13 29 13-0006 EA 1-1/2 HP, Up To 150 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM	5,135.09	1,055.13
22 13 29 13-0007 2" Solids 1,750 RPM Vertical Sewage Pumps <small>(22 13 29 13-0001)</small>		
22 13 29 13-0008 EA 3/4 HP, Up To 75 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,106.04	1,055.13
22 13 29 13-0009 EA 1 HP, Up To 100 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,166.56	1,055.13
22 13 29 13-0010 EA 2 HP, Up To 200 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,208.92	1,055.13
22 13 29 13-0011 EA 3 HP, Up To 300 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,499.42	1,055.13
22 13 29 13-0012 EA 5 HP, Up To 400 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,783.86	1,055.13
22 13 29 13-0013 EA 7-1/2 HP, Up To 500 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM	6,219.61	1,055.13
22 13 29 13-0014 EA 10 HP, Up To 600 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,655.35	1,055.13
22 13 29 13-0015 EA 15 HP, Up To 600 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,789.14	1,404.15
22 13 29 13-0016 3" Solids 1,750 RPM Vertical Sewage Pumps <small>(22 13 29 13-0001)</small>		
22 13 29 13-0017 EA 2 HP, Up To 300 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	5,409.28	1,055.13
22 13 29 13-0018 EA 3 HP, Up To 400 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	5,409.28	1,055.13
22 13 29 13-0019 EA 5 HP, Up To 500 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	5,514.14	1,055.13
22 13 29 13-0020 EA 7-1/2 HP, Up To 700 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM	6,327.72	1,055.13
22 13 29 13-0021 EA 10 HP, Up To 800 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	6,470.43	1,055.13
22 13 29 13-0022 EA 15 HP, Up To 900 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,839.34	1,404.15
22 13 29 13-0023 EA 20 HP, Up To 900 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	8,202.46	1,404.15
22 13 29 13-0024 Extra Column Assemblies Addition, 5' Or Less <small>(22 13 29 13-0001)</small>		
22 13 29 13-0025 EA 2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	544.22	
22 13 29 13-0026 EA 3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	653.44	
22 13 29 13-0027 EA 4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	730.37	
22 13 29 13-0028 EA 5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	743.67	
22 13 29 13-0029 EA 6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	834.84	
22 13 29 13-0030 Float Switches <small>(22 13 29 13-0001)</small>		
Note: Copper coated floats, brass rods and stops and switch brackets.		
22 13 29 13-0031 EA Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps	489.13	
22 13 29 13-0032 EA Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps	513.82	
22 13 29 13-0033 EA Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps.....	525.22	
22 13 29 13-0034 Square Or Round Steel Sump Covers <small>(22 13 29 13-0001)</small>		
22 13 29 13-0035 EA 24" Steel Sump Covers, Square Or Round.....	509.55	35.19
22 13 29 13-0036 EA 30" Steel Sump Covers, Square Or Round.....	564.26	39.58
22 13 29 13-0037 EA 36" Steel Sump Covers, Square Or Round.....	781.99	52.77
22 13 29 13-0038 EA 40" Steel Sump Covers, Square Or Round.....	1,128.03	61.57
22 13 29 13-0039 EA 42" Steel Sump Covers, Square Or Round.....	1,208.24	63.77
22 13 29 13-0040 EA 48" Steel Sump Covers, Square Or Round.....	1,291.07	65.97
22 13 29 13-0041 EA 54" Steel Sump Covers, Square Or Round.....	1,642.44	79.17
22 13 29 13-0042 EA 60" Steel Sump Covers, Square Or Round.....	2,216.00	87.96
22 13 29 13-0043 EA 72" Steel Sump Covers, Square Or Round.....	2,810.02	109.95
22 13 29 13-0044 EA 84" Steel Sump Covers, Square Or Round.....	3,563.55	120.94
22 13 29 16 Submersible Sewerage Pumps <small>(22 13 29)</small>		
Note: Includes 25' of cord with pumps unless otherwise noted.		
22 13 29 16-0001 Submersible Sewage Pumps With Vortex Impeller <small>(22 13 29 16)</small>		
22 13 29 16-0002 Submersible Sewage Pumps With Cast Iron Vortex Impeller <small>(22 13 29 16-0001)</small>		
22 13 29 16-0003 EA 1/2 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	530.56	64.03
22 13 29 16-0004 EA 1/2 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	688.16	64.03
22 13 29 16-0005 EA 1 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	829.71	80.03
22 13 29 16-0006 Submersible Sewage Pumps With Bronze Vortex Impeller <small>(22 13 29 16-0001)</small>		
22 13 29 16-0007 EA 1/2 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	782.79	64.03
22 13 29 16-0008 EA 1 HP Submersible Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	958.44	80.03
22 13 29 16-0009 EA 1-1/2 HP Submersible Sewage Pump, 230 Volt, 1 Or 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,168.71	129.00
22 13 29 16-0010 EA 2 HP Submersible Sewage Pump, 230 Volt, 1 Or 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,289.42	157.67



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0011		Submersible Sewage Pumps With Semi-Open Impeller <small>(22 13 29 16)</small>		
22 13 29 16-0012	EA	1 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,677.57	80.03
22 13 29 16-0013	EA	1.5 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,861.12	128.59
22 13 29 16-0014	EA	2 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	2,400.42	157.16
22 13 29 16-0015	EA	3 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	2,792.29	190.51
22 13 29 16-0016	EA	5 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	3,254.01	223.84
22 13 29 16-0017	EA	7.5 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	3,402.55	257.18
22 13 29 16-0018		Submersible Sewage Pumps Accessories <small>(22 13 29 16)</small>		
22 13 29 16-0019	EA	Simplex Single Phase Plug In Controller With NEMA 4X Enclosure For Non-Automatic Submersible Sewage Pump..... Note: Includes alarm horn, warning light, and single control float switches.	316.97	72.38
22 13 29 16-0020	EA	Simplex Single Phase Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewage Pump..... Note: Includes alarm horn, warning light, HOA switch, and three control float switches.	730.11	96.51
22 13 29 16-0021	EA	Simplex Three Phase Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewage Pump..... Note: Includes alarm horn, warning light, HOA switch, and three control float switches.	942.89	96.51
22 13 29 16-0022	EA	Duplex Alarm System And Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewage Pump..... Note: Includes alarm horn, warning light, HOA switch, and three control float switches.	1,054.90	120.63
22 13 29 16-0023	EA	High-water Alarm For Submersible Sewage Pump.....	242.78	48.25
22 13 29 16-0024	EA	Float Switch For Submersible Sewage Pump.....	92.32	24.13
22 13 29 16-0025	EA	Rail System With 2" Discharge For Submersible Sewage Pump.....	452.62	72.38
22 13 29 33		Sewerage Pump Basins And Pits <small>(22 13 29)</small>		
22 13 29 33-0001		Sewage Sump Pump Basin <small>(22 13 29 33)</small>		
22 13 29 33-0002		High Density Polyethylene (HDPE) Basin <small>(22 13 29 33-0001)</small>		
22 13 29 33-0003	EA	18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	109.69	
22 13 29 33-0004	EA	18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	141.32	
22 13 29 33-0005	EA	24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	318.01	
22 13 29 33-0006	EA	24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	445.44	
22 13 29 33-0007	EA	30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	572.87	
22 13 29 33-0008	EA	36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	666.08	
22 13 29 33-0009		Fiberglass Basin <small>(22 13 29 33-0001)</small>		
22 13 29 33-0010	EA	18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub.....	193.54	
22 13 29 33-0011	EA	24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub.....	376.32	
22 13 29 33-0012	EA	30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub.....	663.26	
22 13 29 33-0013	EA	36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub.....	886.43	
22 13 29 33-0014	EA	36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub.....	1,019.27	
22 13 29 33-0015	EA	36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub.....	1,076.66	
22 13 29 33-0016	EA	36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub.....	1,261.58	
22 13 29 33-0017	EA	48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub.....	1,463.50	
22 60		Gas And Vacuum Systems For Laboratory And Healthcare Facilities <small>(22)</small>		
22 66		Chemical-Waste Systems For Laboratory And Healthcare Facilities <small>(22 60)</small>		
22 66 53		Laboratory Chemical-Waste And Vent Piping <small>(22 66)</small>		
22 66 53 00-0001		Polypropylene Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 66 53)</small>		
22 66 53 00-0002		Schedule 40 Polypropylene Acid Resistant DWV Pipe And Fusal Fittings <small>(22 66 53 00-0001)</small>		
22 66 53 00-0003		Schedule 40 Polypropylene Acid Resistant DWV Pipe <small>(22 66 53 00-0002)</small>		
22 66 53 00-0004	LF	1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Pipe..... For Schedule 80, Add For Fire Retardant Thermoplastic Pipe (Proxylene), Add For Work In Restricted Working Space, Add	15.29 4.02 3.44 2.27	5.01
22 66 53 00-0005	LF	2" Schedule 40 Polypropylene Acid Resistant DWV Pipe..... For Schedule 80, Add For Fire Retardant Thermoplastic Pipe (Proxylene), Add For Work In Restricted Working Space, Add	18.96 5.44 4.65 2.55	5.62
22 66 53 00-0006	LF	3" Schedule 40 Polypropylene Acid Resistant DWV Pipe..... For Schedule 80, Add For Fire Retardant Thermoplastic Pipe (Proxylene), Add For Work In Restricted Working Space, Add	31.20 9.82 8.41 3.69	8.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0007 LF 4" Schedule 40 Polypropylene Acid Resistant DWV Pipe..... <i>For Schedule 80, Add</i> <i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i> <i>For Work In Restricted Working Space, Add</i>	42.81 13.95 11.93 4.80	10.65
22 66 53 00-0008 LF 6" Schedule 40 Polypropylene Acid Resistant DWV Pipe..... <i>For Schedule 80, Add</i> <i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i> <i>For Work In Restricted Working Space, Add</i>	71.79 25.14 21.51 7.04	15.66
22 66 53 00-0009 Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bends (22 66 53 00-0002)		
22 66 53 00-0010 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend..... <i>For Work In Restricted Working Space, Add</i>	59.58 8.51	18.91
22 66 53 00-0011 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend..... <i>For Work In Restricted Working Space, Add</i>	76.19 11.23	24.98
22 66 53 00-0012 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend..... <i>For Work In Restricted Working Space, Add</i>	108.70 12.87	28.59
22 66 53 00-0013 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend..... <i>For Work In Restricted Working Space, Add</i>	161.49 17.03	37.82
22 66 53 00-0014 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend..... <i>For Work In Restricted Working Space, Add</i>	341.18 25.13	55.85
22 66 53 00-0015 Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bends (22 66 53 00-0002)		
22 66 53 00-0016 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	59.04 8.51	18.91
22 66 53 00-0017 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	74.78 11.23	24.98
22 66 53 00-0018 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	111.39 12.87	28.59
22 66 53 00-0019 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	134.42 17.03	37.82
22 66 53 00-0020 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	299.23 25.13	55.85
22 66 53 00-0021 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tees (22 66 53 00-0002)		
22 66 53 00-0022 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	99.42 18.20	40.46
22 66 53 00-0023 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	122.91 22.94	51.01
22 66 53 00-0024 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	176.66 25.13	55.85
22 66 53 00-0025 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	249.06 32.99	73.36
22 66 53 00-0026 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	452.57 52.77	117.33
22 66 53 00-0027 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tees (22 66 53 00-0002)		
22 66 53 00-0028 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	122.85 22.94	51.01
22 66 53 00-0029 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	170.17 25.13	55.85
22 66 53 00-0030 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	164.41 25.13	55.85
22 66 53 00-0031 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	234.27 32.99	73.36
22 66 53 00-0032 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	239.85 32.99	73.36
22 66 53 00-0033 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	411.40 52.77	117.33
22 66 53 00-0034 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tees With Plug (22 66 53 00-0002)		
22 66 53 00-0035 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug <i>For Work In Restricted Working Space, Add</i>	118.34 18.20	40.46
22 66 53 00-0036 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug <i>For Work In Restricted Working Space, Add</i>	127.49 22.94	51.01
22 66 53 00-0037 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug <i>For Work In Restricted Working Space, Add</i>	190.66 25.13	55.85
22 66 53 00-0038 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug <i>For Work In Restricted Working Space, Add</i>	255.52 32.99	73.36
22 66 53 00-0039 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug <i>For Work In Restricted Working Space, Add</i>	372.74 52.77	117.33
22 66 53 00-0040 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wyes (22 66 53 00-0002)		

22 Plumbing**22 60 Gas And Vacuum Systems For Laboratory And Healthcare Facilities****22 66 Chemical-Waste Systems For Laboratory And Healthcare Facilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0041	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	110.04 18.20	40.46
22 66 53 00-0042	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye <i>For Work In Restricted Working Space, Add</i>	132.75 22.94	51.01
22 66 53 00-0043	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye <i>For Work In Restricted Working Space, Add</i>	182.52 25.13	55.85
22 66 53 00-0044	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye <i>For Work In Restricted Working Space, Add</i>	253.92 32.99	73.36
22 66 53 00-0045	EA		6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye <i>For Work In Restricted Working Space, Add</i>	541.39 52.77	117.33
22 66 53 00-0046			Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wyes ^(22 66 53 00-0002)		
22 66 53 00-0047	EA		2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	145.75 22.94	51.01
22 66 53 00-0048	EA		3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	175.84 25.13	55.85
22 66 53 00-0049	EA		3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	175.84 25.13	55.85
22 66 53 00-0050	EA		4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	248.15 32.99	73.36
22 66 53 00-0051	EA		4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	248.15 32.99	73.36
22 66 53 00-0052	EA		6" x 6" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	464.88 52.77	117.33
22 66 53 00-0053	EA		6" x 6" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	469.36 52.77	117.33
22 66 53 00-0054	EA		6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	413.28 52.77	117.33
22 66 53 00-0055			Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Crosses ^(22 66 53 00-0002)		
22 66 53 00-0056	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	136.59 22.75	50.57
22 66 53 00-0057	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	168.40 28.68	63.77
22 66 53 00-0058	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	250.34 31.41	69.84
22 66 53 00-0059	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	355.50 41.23	91.65
22 66 53 00-0060	EA		6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	653.58 65.97	146.62
22 66 53 00-0061			Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bends ^(22 66 53 00-0002)		
22 66 53 00-0062	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	95.95 18.20	40.46
22 66 53 00-0063	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	128.05 22.94	51.01
22 66 53 00-0064	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	149.74 25.13	55.85
22 66 53 00-0065	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	212.56 32.99	73.36
22 66 53 00-0066	EA		2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	112.70 22.94	51.01
22 66 53 00-0067	EA		3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	143.57 25.13	55.85
22 66 53 00-0068	EA		3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	146.05 25.13	55.85
22 66 53 00-0069	EA		4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	203.38 32.99	73.36
22 66 53 00-0070	EA		4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	204.95 32.99	73.36
22 66 53 00-0071			Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Traps ^(22 66 53 00-0002)		
22 66 53 00-0072	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	114.63 21.11	46.97
22 66 53 00-0073	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	153.50 27.78	61.75
22 66 53 00-0074	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	245.46 37.70	83.83
22 66 53 00-0075	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	361.26 47.98	106.70
22 66 53 00-0076			Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapters ^(22 66 53 00-0002)		
22 66 53 00-0077	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter..... <i>For Work In Restricted Working Space, Add</i>	58.10 8.51	18.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0078 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter..... <i>For Work In Restricted Working Space, Add</i>	68.42 11.23	24.98
22 66 53 00-0079 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter..... <i>For Work In Restricted Working Space, Add</i>	81.25 12.87	28.59
22 66 53 00-0080 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter..... <i>For Work In Restricted Working Space, Add</i>	112.02 17.03	37.82
22 66 53 00-0081 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter..... <i>For Work In Restricted Working Space, Add</i>	166.54 25.13	55.85
22 66 53 00-0082 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapters <small>(22 66 53 00-0002)</small>		
22 66 53 00-0083 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter..... <i>For Work In Restricted Working Space, Add</i>	54.38 8.51	18.91
22 66 53 00-0084 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter..... <i>For Work In Restricted Working Space, Add</i>	71.24 11.23	24.98
22 66 53 00-0085 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter..... <i>For Work In Restricted Working Space, Add</i>	86.42 12.87	28.59
22 66 53 00-0086 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter..... <i>For Work In Restricted Working Space, Add</i>	117.09 17.03	37.82
22 66 53 00-0087 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Couplings <small>(22 66 53 00-0002)</small>		
22 66 53 00-0088 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling..... <i>For Work In Restricted Working Space, Add</i>	49.74 8.51	18.91
22 66 53 00-0089 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling..... <i>For Work In Restricted Working Space, Add</i>	62.90 11.23	24.98
22 66 53 00-0090 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling..... <i>For Work In Restricted Working Space, Add</i>	73.82 12.87	28.59
22 66 53 00-0091 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling..... <i>For Work In Restricted Working Space, Add</i>	97.64 17.03	37.82
22 66 53 00-0092 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling..... <i>For Work In Restricted Working Space, Add</i>	143.20 25.13	55.85
22 66 53 00-0093 Bell And Spigot High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 66 53)</small> Note: Acid resistant. ASTM A518.		
22 66 53 00-0094 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe <small>(22 66 53 00-0093)</small>		
22 66 53 00-0095 LF 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	86.50	7.83
22 66 53 00-0096 LF 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	121.72	9.76
22 66 53 00-0097 LF 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	165.59	11.26
22 66 53 00-0098 LF 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	271.72	15.76
22 66 53 00-0099 LF 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	479.33	21.07
22 66 53 00-0100 LF 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	847.68	26.57
22 66 53 00-0101 LF 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	1,511.52	35.79
22 66 53 00-0102 LF 15" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	2,692.17	41.04
22 66 53 00-0103 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Fittings <small>(22 66 53 00-0093)</small>		
22 66 53 00-0104 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweeps <small>(22 66 53 00-0103)</small>		
22 66 53 00-0105 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	346.03	66.67
22 66 53 00-0106 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	452.20	73.36
22 66 53 00-0107 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	734.14	87.78
22 66 53 00-0108 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	1,092.35	104.13
22 66 53 00-0109 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	2,508.98	169.29
22 66 53 00-0110 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends <small>(22 66 53 00-0103)</small>		
22 66 53 00-0111 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	201.78	66.67
22 66 53 00-0112 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	262.69	73.36
22 66 53 00-0113 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	329.66	87.78
22 66 53 00-0114 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	868.90	104.13
22 66 53 00-0115 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	1,970.71	169.29
22 66 53 00-0116 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	2,993.01	210.92
22 66 53 00-0117 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	4,395.38	253.65
22 66 53 00-0118 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends <small>(22 66 53 00-0103)</small>		
22 66 53 00-0119 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	201.78	66.67
22 66 53 00-0120 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	262.69	73.36
22 66 53 00-0121 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	329.66	87.78
22 66 53 00-0122 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	636.96	104.13
22 66 53 00-0123 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	1,670.90	169.29
22 66 53 00-0124 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	2,441.88	210.92
22 66 53 00-0125 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	3,462.40	253.65

22 Plumbing**22 60 Gas And Vacuum Systems For Laboratory And Healthcare Facilities****22 66 Chemical-Waste Systems For Laboratory And Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0126 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends <small>(22 66 53 00-0103)</small>		
22 66 53 00-0127 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	201.78	66.67
22 66 53 00-0128 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	262.69	73.36
22 66 53 00-0129 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	329.45	87.69
22 66 53 00-0130 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweeps <small>(22 66 53 00-0103)</small>		
22 66 53 00-0131 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	275.32	66.67
22 66 53 00-0132 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	486.14	73.36
22 66 53 00-0133 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	544.63	87.78
22 66 53 00-0134 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tees <small>(22 66 53 00-0103)</small>		
22 66 53 00-0135 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	285.36	99.74
22 66 53 00-0136 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	358.11	110.56
22 66 53 00-0137 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	497.78	132.02
22 66 53 00-0138 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	828.59	156.48
22 66 53 00-0139 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	2,533.54	254.15
22 66 53 00-0140 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	3,596.94	317.35
22 66 53 00-0141 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tees <small>(22 66 53 00-0103)</small>		
22 66 53 00-0142 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	267.82	95.61
22 66 53 00-0143 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	312.33	102.65
22 66 53 00-0144 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	348.81	106.25
22 66 53 00-0145 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	399.36	117.33
22 66 53 00-0146 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	427.60	121.03
22 66 53 00-0147 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	469.65	124.64
22 66 53 00-0148 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	585.33	135.41
22 66 53 00-0149 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	649.50	138.89
22 66 53 00-0150 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	726.95	145.28
22 66 53 00-0151 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tees <small>(22 66 53 00-0103)</small>		
22 66 53 00-0152 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	324.91	99.74
22 66 53 00-0153 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	391.62	110.30
22 66 53 00-0154 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	534.52	132.02
22 66 53 00-0155 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tees <small>(22 66 53 00-0103)</small>		
22 66 53 00-0156 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	307.40	95.61
22 66 53 00-0157 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	383.49	106.78
22 66 53 00-0158 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	462.05	121.39
22 66 53 00-0159 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	495.66	124.99
22 66 53 00-0160 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wyes <small>(22 66 53 00-0103)</small>		
22 66 53 00-0161 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	282.71	99.92
22 66 53 00-0162 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	389.22	110.56
22 66 53 00-0163 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	497.62	131.94
22 66 53 00-0164 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	833.34	155.89
22 66 53 00-0165 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	3,172.39	253.90
22 66 53 00-0166 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes <small>(22 66 53 00-0103)</small>		
22 66 53 00-0167 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	290.43	95.61
22 66 53 00-0168 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	312.28	102.65
22 66 53 00-0169 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	329.93	106.87
22 66 53 00-0170 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	368.25	117.33
22 66 53 00-0171 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	382.55	121.20
22 66 53 00-0172 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	458.89	124.99
22 66 53 00-0173 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	616.23	135.57
22 66 53 00-0174 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	731.52	138.89
22 66 53 00-0175 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	763.72	145.28
22 66 53 00-0176 EA 8" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,865.62	204.83
22 66 53 00-0177 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	2,014.36	211.60
22 66 53 00-0178 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	2,463.27	222.42
22 66 53 00-0179 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends <small>(22 66 53 00-0103)</small>		
22 66 53 00-0180 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	336.17	99.74
22 66 53 00-0181 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	400.10	110.30
22 66 53 00-0182 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	591.09	132.02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0183 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	907.18	156.06
22 66 53 00-0184 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends <small>(22 66 53 00-0103)</small>		
22 66 53 00-0185 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	279.12	95.61
22 66 53 00-0186 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	323.59	102.65
22 66 53 00-0187 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	358.03	106.78
22 66 53 00-0188 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	388.05	117.33
22 66 53 00-0189 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	447.91	121.39
22 66 53 00-0190 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	506.92	124.90
22 66 53 00-0191 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	652.95	135.57
22 66 53 00-0192 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	813.61	138.97
22 66 53 00-0193 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	891.35	145.53
22 66 53 00-0194 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducers <small>(22 66 53 00-0103)</small>		
22 66 53 00-0195 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer	173.33	62.81
22 66 53 00-0196 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer	189.90	66.32
22 66 53 00-0197 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	212.15	69.84
22 66 53 00-0198 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	339.55	77.41
22 66 53 00-0199 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	356.15	81.01
22 66 53 00-0200 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	384.83	86.87
22 66 53 00-0201 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	499.43	93.51
22 66 53 00-0202 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	724.92	127.00
22 66 53 00-0203 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	772.18	137.74
22 66 53 00-0204 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increasers <small>(22 66 53 00-0103)</small>		
22 66 53 00-0205 EA 2" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	463.14	146.62
22 66 53 00-0206 EA 2" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	610.22	146.62
22 66 53 00-0207 EA 3" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	623.42	146.62
22 66 53 00-0208 EA 4" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	700.52	193.73
22 66 53 00-0209 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Traps <small>(22 66 53 00-0103)</small>		
22 66 53 00-0210 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	512.91	66.67
22 66 53 00-0211 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	619.08	73.36
22 66 53 00-0212 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	753.94	87.78
22 66 53 00-0213 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	2,218.09	104.13
22 66 53 00-0214 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hubs <small>(22 66 53 00-0103)</small>		
22 66 53 00-0215 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	255.52	66.67
22 66 53 00-0216 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	322.09	73.36
22 66 53 00-0217 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	442.80	87.78
22 66 53 00-0218 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	568.61	104.13
22 66 53 00-0219 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	1,106.00	145.28
22 66 53 00-0220 Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings <small>(22 66 53 00-0093)</small>		
Note: Labor costs for installation of lead and oakum are included in the installation costs for fittings.		
22 66 53 00-0221 LB Lead (1 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings.....	4.97	
22 66 53 00-0222 LB Seal-Tite Packing (1/8 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings.....	51.86	
22 66 53 00-0223 Mechanical Joint High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 66 53)</small>		
Note: ASTM A518.		
22 66 53 00-0224 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe <small>(22 66 53 00-0223)</small>		
22 66 53 00-0225 LF 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	68.61	5.90
22 66 53 00-0226 LF 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	78.08	6.51
22 66 53 00-0227 LF 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	107.69	8.18
22 66 53 00-0228 LF 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	135.82	9.50
22 66 53 00-0229 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Fittings <small>(22 66 53 00-0223)</small>		
22 66 53 00-0230 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweeps <small>(22 66 53 00-0229)</small>		
22 66 53 00-0231 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	253.90	46.71
22 66 53 00-0232 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	274.33	52.77
22 66 53 00-0233 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	375.77	58.23

22 Plumbing**22 60 Gas And Vacuum Systems For Laboratory And Healthcare Facilities****22 66 Chemical-Waste Systems For Laboratory And Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0234 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	453.45	70.36
22 66 53 00-0235 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0236 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	143.59	46.71
22 66 53 00-0237 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	171.68	52.25
22 66 53 00-0238 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	220.50	58.40
22 66 53 00-0239 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	288.61	69.84
22 66 53 00-0240 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	167.32	49.34
22 66 53 00-0241 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0242 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	143.59	46.71
22 66 53 00-0243 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	171.68	52.25
22 66 53 00-0244 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	220.50	58.40
22 66 53 00-0245 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	288.61	69.84
22 66 53 00-0246 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0247 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	169.05	46.71
22 66 53 00-0248 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	211.28	52.25
22 66 53 00-0249 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	325.15	58.40
22 66 53 00-0250 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	364.98	69.84
22 66 53 00-0251 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0252 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	163.39	46.71
22 66 53 00-0253 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	194.31	52.25
22 66 53 00-0254 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	299.70	58.40
22 66 53 00-0255 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	339.52	69.84
22 66 53 00-0256 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0257 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bend.....	246.79	70.28
22 66 53 00-0258 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tees <small>(22 66 53 00-0229)</small>		
22 66 53 00-0259 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	201.54	70.28
22 66 53 00-0260 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	248.79	79.17
22 66 53 00-0261 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	327.43	88.22
22 66 53 00-0262 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	494.91	105.64
22 66 53 00-0263 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tees <small>(22 66 53 00-0229)</small>		
22 66 53 00-0264 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	233.02	76.17
22 66 53 00-0265 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	284.34	82.15
22 66 53 00-0266 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Sanitary Reducing Tee.....	302.84	85.05
22 66 53 00-0267 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	324.51	93.85
22 66 53 00-0268 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	356.84	96.49
22 66 53 00-0269 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	386.67	99.39
22 66 53 00-0270 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wyes <small>(22 66 53 00-0229)</small>		
22 66 53 00-0271 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	201.89	70.54
22 66 53 00-0272 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	237.48	79.17
22 66 53 00-0273 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	316.11	88.22
22 66 53 00-0274 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	494.91	105.64
22 66 53 00-0275 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes <small>(22 66 53 00-0229)</small>		
22 66 53 00-0276 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	225.12	76.61
22 66 53 00-0277 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	275.84	82.06
22 66 53 00-0278 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	289.08	85.31
22 66 53 00-0279 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	324.94	94.12
22 66 53 00-0280 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	357.63	97.02
22 66 53 00-0281 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	378.56	99.65
22 66 53 00-0282 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wyes <small>(22 66 53 00-0229)</small>		
22 66 53 00-0283 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	302.06	93.94
22 66 53 00-0284 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	384.72	105.73
22 66 53 00-0285 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	492.15	116.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0286 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	640.80	140.64
22 66 53 00-0287 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	333.05	99.48
22 66 53 00-0288 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	372.94	105.38
22 66 53 00-0289 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	443.94	111.18
22 66 53 00-0290 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	490.04	123.14
22 66 53 00-0291 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	589.92	129.38
22 66 53 00-0292 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Crosses <small>(22 66 53 00-0229)</small>		
22 66 53 00-0293 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	335.95	93.94
22 66 53 00-0294 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	395.83	105.55
22 66 53 00-0295 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	566.68	117.60
22 66 53 00-0296 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	790.93	140.82
22 66 53 00-0297 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	361.28	99.48
22 66 53 00-0298 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	471.90	105.38
22 66 53 00-0299 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	497.61	111.18
22 66 53 00-0300 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	532.42	123.06
22 66 53 00-0301 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	676.92	128.86
22 66 53 00-0302 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0303 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	223.83	70.01
22 66 53 00-0304 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	260.10	79.17
22 66 53 00-0305 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	316.11	88.22
22 66 53 00-0306 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	526.02	105.64
22 66 53 00-0307 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0308 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	247.23	76.26
22 66 53 00-0309 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	276.19	82.33
22 66 53 00-0310 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	300.40	85.31
22 66 53 00-0311 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	406.97	94.12
22 66 53 00-0312 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	417.03	97.02
22 66 53 00-0313 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	466.24	99.65
22 66 53 00-0314 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0315 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	355.55	93.77
22 66 53 00-0316 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	446.67	105.46
22 66 53 00-0317 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	642.42	117.25
22 66 53 00-0318 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	771.58	141.09
22 66 53 00-0319 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0320 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	386.73	99.48
22 66 53 00-0321 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	463.39	105.29
22 66 53 00-0322 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	483.47	111.18
22 66 53 00-0323 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	538.08	123.06
22 66 53 00-0324 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	676.92	128.86
22 66 53 00-0325 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducers-Increasers <small>(22 66 53 00-0229)</small>		
22 66 53 00-0326 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	168.07	49.88
22 66 53 00-0327 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	189.44	52.77
22 66 53 00-0328 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	222.42	61.57
22 66 53 00-0329 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	263.07	58.49
22 66 53 00-0330 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	278.76	61.40
22 66 53 00-0331 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	294.45	64.30
22 66 53 00-0332 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tees <small>(22 66 53 00-0229)</small>		
22 66 53 00-0333 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee.....	154.91	41.07
22 66 53 00-0334 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	179.95	46.45
22 66 53 00-0335 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	211.74	52.60

22 Plumbing**22 60 Gas And Vacuum Systems For Laboratory And Healthcare Facilities****22 66 Chemical-Waste Systems For Laboratory And Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0336 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	384.54	64.03
22 66 53 00-0337 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plugs (22 66 53 00-0229)		
22 66 53 00-0338 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	68.97	23.39
22 66 53 00-0339 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	81.60	26.12
22 66 53 00-0340 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	89.04	29.20
22 66 53 00-0341 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	114.61	34.91
22 66 53 00-0342 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Traps (22 66 53 00-0229)		
22 66 53 00-0343 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	281.78	46.45
22 66 53 00-0344 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	290.48	52.25
22 66 53 00-0345 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	359.10	58.40
22 66 53 00-0346 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	458.32	69.84
22 66 53 00-0347 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	391.63	49.96
22 66 53 00-0348 EA 2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	539.03	55.76
22 66 53 00-0349 EA 3" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	652.32	61.57
22 66 53 00-0350 EA 4" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	811.40	73.36
22 66 53 00-0351 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum Traps (22 66 53 00-0229)		
22 66 53 00-0352 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap.....	523.55	53.04
22 66 53 00-0353 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap.....	826.20	58.67
22 66 53 00-0354 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap.....	545.87	52.77
22 66 53 00-0355 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap.....	826.20	58.67
22 66 53 00-0356 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Traps (22 66 53 00-0229)		
22 66 53 00-0357 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap	486.47	52.77
22 66 53 00-0358 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap	571.63	58.67
22 66 53 00-0359 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long P-Trap	562.84	52.77
22 66 53 00-0360 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap.....	1,236.33	58.67
22 66 53 00-0361 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap.....	735.68	58.67
22 66 53 00-0362 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bends (22 66 53 00-0229)		
22 66 53 00-0363 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend.....	203.30	46.97
22 66 53 00-0364 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend.....	265.84	52.77
22 66 53 00-0365 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapters (22 66 53 00-0229)		
22 66 53 00-0366 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter.....	103.68	35.19
22 66 53 00-0367 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	190.11	38.17
22 66 53 00-0368 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	139.51	43.98
22 66 53 00-0369 Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter (22 66 53 00-0229)		
22 66 53 00-0370 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	193.88	50.05
22 66 53 00-0371 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	212.07	52.77
22 66 53 00-0372 EA 1-1/2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	236.25	55.68
22 66 53 00-0373 EA 1-1/2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	253.30	61.40
22 66 53 00-0374 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	236.30	55.76
22 66 53 00-0375 EA 2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	249.13	58.67
22 66 53 00-0376 EA 2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	269.00	64.30
22 66 53 00-0377 EA 3" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	304.50	61.57
22 66 53 00-0378 EA 4" x 4" Mechanical Joint High Silicon Iron Alloy Hub To Mechanical Joint Adapter	375.83	73.36
22 66 53 00-0379 Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings (22 66 53 00-0229)		
22 66 53 00-0380 EA 1-1/2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	67.88	
22 66 53 00-0381 EA 2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	79.20	
22 66 53 00-0382 EA 3" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	84.85	
22 66 53 00-0383 EA 4" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	93.34	
22 66 53 00-0384 Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Fittings (22 66 53 00-0229)		
22 66 53 00-0385 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Outlet	501.89	23.48
22 66 53 00-0386 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Stopper	190.13	11.70
22 66 53 00-0387 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Overflow.....	354.18	11.70



Plumbing	22	22
Gas And Vacuum Systems For Laboratory And Healthcare Facilities	22 60	
Chemical-Waste Systems For Laboratory And Healthcare Facilities	22 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0388	Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drains With Stainless Steel Strainer Plates <small>(22 66 53 00-0229)</small>	
22 66 53 00-0389 EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain With Stainless Steel Strainer..... 1,799.47	117.33
22 66 53 00-0390 EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Sediment Basin Floor Drain With Stainless Steel Strainer..... 2,221.21	123.23
22 66 53 00-0391 EA	Stainless Steel Funnel Attachment For Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain..... 1,494.06	11.70

END OF SECTION 22

22 Plumbing

22 60 Gas And Vacuum Systems For Laboratory And Healthcare Facilities

22 66 Chemical-Waste Systems For Laboratory And Healthcare Facilities



MINOR	DESCRIPTION
CSI	UOM

TOTAL DIRECT	DEMOLITION
UNIT COST	UNIT COST

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	MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels.

26 01 Operation and Maintenance of Electrical Systems ⁽²⁶⁾

26 01 10 Operation And Maintenance Of Medium-Voltage Electrical Distribution ^(26 01)

26 01 10 91 Medium-Voltage Electrical Distribution Restoration ^(26 01 10)

26 01 10 91-0001	EA	Retrofit Distribution Enclosures ^(26 01 10 91) Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.		
26 01 10 91-0002	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C)	318.92	
		Note: 2mm thick, aluminum frame, hinged cover.		
		For Up To 20, Add	64.90	
		For >20 To 50, Add	51.92	
		For >50 To 100, Add	25.96	
26 01 10 91-0003	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C)	411.96	
		Note: 2mm thick, aluminum frame, hinged cover.		
		For Up To 20, Add	88.16	
		For >20 To 50, Add	70.52	
		For >50 To 100, Add	35.26	
26 01 10 91-0004	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C)	616.65	
		Note: 4mm thick, aluminum frame, hinged cover.		
		For Up To 20, Add	139.33	
		For >20 To 50, Add	111.46	
		For >50 To 100, Add	55.73	
26 01 10 91-0005	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 1 Rated (Fluke CLKTO)	316.27	
		Note: 2mm thick, aluminum frame, twist cover.		
		For Up To 20, Add	64.23	
		For >20 To 50, Add	51.39	
		For >50 To 100, Add	25.69	
26 01 10 91-0006	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2)	317.91	
		Note: 2mm thick, aluminum frame, twist cover.		
		For Up To 20, Add	64.64	
		For >20 To 50, Add	51.71	
		For >50 To 100, Add	25.86	
26 01 10 91-0007	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3)	404.38	
		Note: 2mm thick, aluminum frame, twist cover.		
		For Up To 20, Add	86.26	
		For >20 To 50, Add	69.01	
		For >50 To 100, Add	34.50	
26 01 10 91-0008	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4)	599.82	
		Note: 4mm thick, aluminum frame, twist cover.		
		For Up To 20, Add	135.12	
		For >20 To 50, Add	108.10	
		For >50 To 100, Add	54.05	
26 01 10 91-0009	EA	2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPFR)	251.93	
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
		For Up To 20, Add	48.15	
		For >20 To 50, Add	38.52	
		For >50 To 100, Add	19.26	
26 01 10 91-0010	EA	3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPFR)	352.42	
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
		For Up To 20, Add	73.27	
		For >20 To 50, Add	58.62	
		For >50 To 100, Add	29.31	
26 01 10 91-0011	EA	4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPFR)	498.95	
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
		For Up To 20, Add	109.90	
		For >20 To 50, Add	87.92	
		For >50 To 100, Add	43.96	
26 01 10 91-0012	EA	2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	455.47	
		Note: 4mm thick, aluminum frame, magnetic cover.		
		For Up To 20, Add	99.03	
		For >20 To 50, Add	79.23	
		For >50 To 100, Add	39.61	
26 01 10 91-0013	EA	3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	623.59	
		Note: 4mm thick, aluminum frame, magnetic cover.		
		For Up To 20, Add	141.06	
		For >20 To 50, Add	112.85	
		For >50 To 100, Add	56.43	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 10 Operation And Maintenance Of Medium-Voltage Electrical Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 10 91-0014 EA 4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,137.06	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	269.43	
For >20 To 50, Add	215.54	
For >50 To 100, Add	107.77	
26 01 10 91-0015 EA 3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	522.30	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	115.74	
For >20 To 50, Add	92.59	
For >50 To 100, Add	46.30	
26 01 10 91-0016 EA 4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	765.72	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	176.60	
For >20 To 50, Add	141.28	
For >50 To 100, Add	70.64	

26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution (26 01)

26 01 20 91 Low-Voltage Electrical Distribution Restoration (26 01 20)

26 01 20 91-0001 Lock Out/Tag Out Devices <small>(26 01 20 91)</small>		
Note: Includes the installation and removal of device lock, pad lock and identifying markers. Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.		
26 01 20 91-0002 EA Lock Out/Tag Out Local Disconnect	24.16	
26 01 20 91-0003 EA Lock Out/Tag Out Breaker Or Motor Starter	24.16	
26 01 20 91-0004 EA Lock Out/Tag Out Tags.....	4.17	
26 01 20 91-0005 Existing Circuit Tracing <small>(26 01 20 91)</small>		
26 01 20 91-0006 EA Motors, Disconnects And Other Single Source Devices, Existing Circuit Tracing Per Device	20.11	
26 01 20 91-0007 EA Lighting, Existing Circuit Tracing Per Circuit.....	20.11	

26 01 30 Operation And Maintenance Of Facility Electrical Power Generating And Storing Equipment (26 01)

26 01 30 91 Facility Electrical Power Generating And Storing Equipment Restoration (26 01 30)

26 01 30 91-0001 Emergency Generator Permits <small>(26 01 30 91)</small>		
26 01 30 91-0002 Air Pollution Control Board <small>(26 01 30 91-0001)</small>		
26 01 30 91-0003 EA APCD Permit To Construct And Operate Emergency Generator.....	2,702.54	

26 01 50 Operation and Maintenance of Lighting (26 01)

26 01 50 51 Luminaire Relamping (26 01 50)

26 01 50 51-0001 Replace Lamps In Existing Fixtures <small>(26 01 50 51)</small>		
Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps. See CSI section 26 01 50 51-0365 for disposal of hazardous lamps.		
26 01 50 51-0002 Halogen Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0003 EA 300 Watt, T3, Tungsten Halogen Lamp	37.44	
26 01 50 51-0004 EA 500 Watt, T3, Tungsten Halogen Lamp	47.80	
26 01 50 51-0005 EA 1,000 Watt, T3, Tungsten Halogen Lamp	70.70	
26 01 50 51-0006 EA 90 Watt, PAR38, Halogen Lamp	18.52	
26 01 50 51-0007 EA 100 Watt, PAR38, Halogen Lamp	18.52	
26 01 50 51-0008 EA 60 Watt, PAR38, Halogen IR Reflective Lamp	21.02	
26 01 50 51-0009 EA 67 Watt, PAR38, Halogen IR Reflective Lamp	22.57	
26 01 50 51-0010 EA 70 Watt, PAR38, Halogen IR Reflective Lamp	22.17	
26 01 50 51-0011 EA 90 Watt, PAR38, Halogen IR Reflective Lamp	23.35	
26 01 50 51-0012 EA 100 Watt, PAR38, Halogen IR Reflective Lamp.....	23.60	
26 01 50 51-0013 EA 12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10)	24.41	
26 01 50 51-0014 EA 12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20)	24.41	
26 01 50 51-0015 EA 12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25)	27.28	
26 01 50 51-0016 EA 12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36)	27.28	
26 01 50 51-0017 Incandescent Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0018 EA 100 Watt, Frosted, Interior Incandescent Lamp	5.41	
For Multiple Lamps In Fixture, Deduct	-1.60	
26 01 50 51-0019 EA 150 Watt, Frosted, Interior Incandescent Lamp	6.57	
For Multiple Lamps In Fixture, Deduct	-1.60	
26 01 50 51-0020 EA 200 Watt, Frosted, Interior Incandescent Lamp	7.89	
For Multiple Lamps In Fixture, Deduct	-1.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0021 EA 300 Watt, PS25, Interior Incandescent Lamp	9.54	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.60	
26 01 50 51-0022 EA 60 Watt, G25, Clear, Interior Incandescent Lamp	7.31	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.60	
26 01 50 51-0023 EA 75 Watt, R20, Interior Incandescent Lamp	11.33	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.91	
26 01 50 51-0024 EA 75 Watt, PAR38, Exterior Incandescent Lamp	13.64	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.91	
26 01 50 51-0025 EA 100 Watt, PAR38, Exterior Incandescent Lamp	12.72	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.91	
26 01 50 51-0026 EA 150 Watt, PAR38, Exterior Incandescent Lamp	21.49	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.91	
26 01 50 51-0027 EA 250 Watt, PAR38, Exterior Incandescent Lamp	43.71	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.23	
26 01 50 51-0028 EA 300 Watt, PAR56, Exterior Incandescent Lamp	50.15	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.23	
26 01 50 51-0029 Exit Light Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0030 EA Convert Exit Light Lamps To Red LED Lamps	89.06	
<i>For Green LED Lamps, Add</i>	25.00	
26 01 50 51-0031 EA Fluorescent Lamp For Exit Light	25.13	
<i>For Multiple Lamps In Fixture, Deduct</i>	-6.38	
26 01 50 51-0032 EA Lamp Replacement For Emergency Lights On Exit Sign	30.66	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.19	
26 01 50 51-0033 Fluorescent Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0034 EA 18", 15 Watt, T8 Fluorescent Lamp	9.43	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0035 EA 2', 17 Watt, T8 Fluorescent Lamp	10.89	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0036 EA 3', 25 Watt, T8 Fluorescent Lamp	12.45	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0037 EA 4', 32 Watt, T8 Fluorescent Lamp	12.19	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0038 EA 4', 30 Watt, T8 Fluorescent Lamp	14.97	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0039 EA 4', 28 Watt, T8 Fluorescent Lamp	13.44	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0040 EA 4', 25 Watt, T8 Fluorescent Lamp	13.38	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0041 EA 4', 44 Watt, T8HO Fluorescent Lamp	19.99	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0042 EA 8', 59 Watt, T8 Fluorescent Lamp	15.84	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0043 EA 18", 15 Watt, T12 Fluorescent Lamp	13.11	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0044 EA 2', 20 Watt, T12 Fluorescent Lamp	10.47	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0045 EA 3', 30 Watt, T12 Fluorescent Lamp	11.76	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0046 EA 4', 34 Watt, T12 Fluorescent Lamp	11.81	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0047 EA 4', 40 Watt, T12 Fluorescent Lamp	11.61	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0048 EA 8', 60 Watt, T12 Fluorescent Lamp	16.17	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0049 EA 8', 75 Watt, T12 Fluorescent Lamp	14.05	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0050 EA 8', 95 Watt, Instant Start T12 Fluorescent Lamp	21.43	
26 01 50 51-0051 EA 6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp	13.24	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0052 EA 8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp	11.29	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0053 EA 12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp	10.99	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0054 EA 16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp	11.93	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0055 EA 6", 4 Watt, T5 Fluorescent Lamp	10.22	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0056 EA 9", 6 Watt, T5 Fluorescent Lamp	10.09	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0057 EA 12", 8 Watt, T5 Fluorescent Lamp	10.34	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0058 EA 21", 13 Watt, T5 Fluorescent Lamp	10.71	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0059 EA 24", 14 Watt, T5 Fluorescent Lamp	12.01	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0060 EA 34", 21 Watt, T5 Fluorescent Lamp	13.14	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0061 EA 46", 28 Watt, T5 Fluorescent Lamp	12.80	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0062 EA 46", 54 Watt T5HO Fluorescent Lamp	13.77	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0063 EA 46", 54 Watt T5 Fluorescent Lamp	13.29	
26 01 50 51-0064 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp	18.80	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.19	
26 01 50 51-0065 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp	18.22	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.19	
26 01 50 51-0066 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp	15.79	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.60	
26 01 50 51-0067 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp	7.72	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.60	
26 01 50 51-0068 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp	8.39	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.60	
26 01 50 51-0069 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux	20.99	
26 01 50 51-0070 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux	20.99	
26 01 50 51-0071 EA 32 Watt 2D (DoubleD) Fluorescent Lamp	36.78	
26 01 50 51-0072 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp	14.22	
26 01 50 51-0073 EA <9 Watt Spiral Compact Fluorescent Lamps, Screw-In	7.78	
26 01 50 51-0074 EA 9-27 Watt Spiral Compact Fluorescent Lamps, Screw-In	6.93	
26 01 50 51-0075 EA 29-32 Watt Spiral Compact Fluorescent Lamps, Screw-In	6.93	
26 01 50 51-0076 EA 33-42 Watt Spiral Compact Fluorescent Lamps, Screw-In	24.79	
26 01 50 51-0077 EA 43-65 Watt Spiral Compact Fluorescent Lamps, Screw-In	26.90	
26 01 50 51-0078 EA 85 Watt Spiral Compact Fluorescent Lamps, Screw-In	49.83	
26 01 50 51-0079 EA 105 Watt Spiral Compact Fluorescent Lamps, Screw-In	59.38	
26 01 50 51-0080 EA 200 Watt Spiral Compact Fluorescent Lamps, Screw-In	61.32	
26 01 50 51-0081 EA 11 Watt Compact Fluorescent Reflector Lamps, Screw-In	23.53	
26 01 50 51-0082 EA 15 Watt Compact Fluorescent Reflector Lamps, Screw-In	24.47	
26 01 50 51-0083 EA 20-28 Watt Compact Fluorescent Reflector Lamps, Screw-In	27.97	
26 01 50 51-0084 Metal Halide Lamps (26 01 50 51-0001)		
26 01 50 51-0085 EA 50 Watt, Pulse Start Metal Halide Lamp	32.45	
26 01 50 51-0086 EA 70 Watt, Pulse Start Metal Halide Lamp	31.25	
26 01 50 51-0087 EA 100 Watt, Pulse Start Metal Halide Lamp	35.04	
26 01 50 51-0088 EA 150 Watt, Pulse Start Metal Halide Lamp	34.18	
26 01 50 51-0089 EA 175 Watt, Pulse Start Metal Halide Lamp	33.93	
26 01 50 51-0090 EA 250 Watt, Pulse Start Metal Halide Lamp	34.10	
26 01 50 51-0091 EA 400 Watt, Pulse Start Metal Halide Lamp	40.13	
26 01 50 51-0092 EA 1,000 Watt, Pulse Start Metal Halide Lamp	45.92	
26 01 50 51-0093 EA 1,500 Watt, Pulse Start Metal Halide Lamp	45.67	
26 01 50 51-0094 High Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0095 EA 35 Watt, High Pressure Sodium Lamp	27.57	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.46	
26 01 50 51-0096 EA 50 Watt, High Pressure Sodium Lamp	27.57	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.46	
26 01 50 51-0097 EA 70 Watt, High Pressure Sodium Lamp	28.09	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.46	
26 01 50 51-0098 EA 100 Watt, High Pressure Sodium Lamp	29.07	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.46	
26 01 50 51-0099 EA 150 Watt, High Pressure Sodium Lamp	28.09	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.46	
26 01 50 51-0100 EA 250 Watt, High Pressure Sodium Lamp	28.09	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.46	
26 01 50 51-0101 EA 400 Watt, High Pressure Sodium Lamp	26.62	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.46	
26 01 50 51-0102 EA 1,000 Watt, High Pressure Sodium Lamp	56.54	
26 01 50 51-0103 Low Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0104 EA 35 Watt, Low Pressure Sodium Lamp	63.05	
26 01 50 51-0105 EA 55 Watt, Low Pressure Sodium Lamp	69.83	
26 01 50 51-0106 EA 70 Watt, Low Pressure Sodium Lamp	71.35	
26 01 50 51-0107 EA 90 Watt, Low Pressure Sodium Lamp	72.88	
26 01 50 51-0108 EA 135 Watt, Low Pressure Sodium Lamp	78.98	
26 01 50 51-0109 EA 180 Watt, Low Pressure Sodium Lamp	106.46	
26 01 50 51-0110 LED Lamps (26 01 50 51-0001)		
26 01 50 51-0111 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0110)		
26 01 50 51-0112 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star)	10.14	
26 01 50 51-0113 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0110)		
26 01 50 51-0114 EA 6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	12.74	
26 01 50 51-0115 EA 11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	12.74	
26 01 50 51-0116 EA 14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	19.70	
26 01 50 51-0117 EA 17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	14.50	
26 01 50 51-0118 EA 18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	24.05	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0119				LED Lamps, Medium Base, BR30 Or BR40 <small>(26 01 50 51-0110)</small>		
				EA 9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	17.56	
				EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	16.09	
				EA 11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	20.00	
				EA 14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	17.40	
				EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	21.74	
				EA 18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	17.40	
26 01 50 51-0126				LED Lamps, Medium Base, PAR <small>(26 01 50 51-0110)</small>		
				EA 7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star).....	18.95	
				EA 12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star).....	24.36	
				EA 16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	24.36	
				EA 15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	23.49	
				EA 12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	22.62	
				EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star).....	22.62	
				EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star).....	40.20	
				EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	24.36	
				EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	23.49	
				EA 19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star).....	24.36	
				EA 24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	24.36	
26 01 50 51-0138				LED Lamps, GU Base, MR16 <small>(26 01 50 51-0110)</small>		
				EA 4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star).....	14.35	
				EA 6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star).....	17.56	
				EA 8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star).....	18.95	
26 01 50 51-0142				LED Lamps, PL Series <small>(26 01 50 51-0110)</small>		
				EA 3.5 Watt, 2-Pin CFL G23 Base, Hybrid Lamp (GreenCreative PLS 3.5 HYB G23).....	18.37	
				EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/827/DIR).....	23.74	
				EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/830/DIR).....	19.44	
				EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/835/DIR).....	22.13	
				EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/840/DIR).....	22.13	
				EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 10.5PLH/930/DIR).....	26.97	
				EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/827/DIR).....	22.13	
				EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/830/DIR).....	22.13	
				EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/835/DIR).....	22.13	
				EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/840/DIR).....	22.13	
				EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 10PLV/827/DIR).....	25.35	
				EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/830/DIR).....	25.35	
				EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 10PLV/835/DIR).....	25.35	
				EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/840/DIR).....	25.35	
				EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 11PLV/930/DIR).....	23.74	
				EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/827/DIR).....	23.74	
				EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/830/DIR).....	23.74	
				EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/835/DIR).....	24.82	
				EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/840/DIR).....	24.82	
				EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP).....	25.05	
				EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP).....	25.05	
				EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP).....	25.05	
				EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP).....	25.05	
				EA 13-18 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP).....	25.89	
				EA 13-18 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP).....	25.89	
				EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26).....	25.89	
				EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26).....	25.89	
				EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26).....	25.89	
				EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24).....	25.89	
				EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24).....	25.89	
				EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24).....	25.89	
				EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP).....	34.29	
				EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP).....	34.29	
				EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP).....	34.29	
				EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP).....	32.36	
				EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP).....	32.36	
				EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP).....	32.36	
26 01 50 51-0180				HID LED Lamps, Medium Base E26 <small>(26 01 50 51-0110)</small>		
				EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26).....	69.47	
				EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26).....	69.47	
				EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26).....	89.36	
				EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26).....	89.36	
				EA 10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026).....	56.34	
				EA 10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026).....	56.34	
				EA 10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026).....	56.34	
				EA 10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026).....	56.34	

26 Electrical
26 01 Operation and Maintenance of Electrical Systems
26 01 50 Operation and Maintenance of Lighting



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 01 50 51-0189	EA	15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026)	58.49
26 01 50 51-0190	EA	15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026)	58.49
26 01 50 51-0191	EA	15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026)	58.49
26 01 50 51-0192	EA	15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026)	58.49
26 01 50 51-0193	EA	20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026)	67.10
26 01 50 51-0194	EA	20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026)	67.10
26 01 50 51-0195	EA	20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	67.10
26 01 50 51-0196	EA	20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	67.10
26 01 50 51-0197	EA	25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	77.86
26 01 50 51-0198	EA	25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	77.86
26 01 50 51-0199	EA	25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	77.86
26 01 50 51-0200	EA	25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	77.86
26 01 50 51-0201	EA	30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	101.52
26 01 50 51-0202	EA	30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	101.52
26 01 50 51-0203	EA	30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	101.52
26 01 50 51-0204	EA	30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	101.52
26 01 50 51-0205	EA	40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	121.96
26 01 50 51-0206	EA	40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	121.96
26 01 50 51-0207	EA	40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	121.96
26 01 50 51-0208	EA	40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	121.96
26 01 50 51-0209	EA	60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	135.95
26 01 50 51-0210	EA	60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	135.95
26 01 50 51-0211	EA	60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	135.95
26 01 50 51-0212	EA	60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	135.95
26 01 50 51-0213	EA	80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	186.51
26 01 50 51-0214	EA	80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	186.51
26 01 50 51-0215	EA	80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	186.51
26 01 50 51-0216	EA	80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	186.51
26 01 50 51-0217	EA	100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	192.97
26 01 50 51-0218	EA	100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	192.97
26 01 50 51-0219	EA	100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	192.97
26 01 50 51-0220	EA	100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	192.97
26 01 50 51-0221	EA	120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	230.62
26 01 50 51-0222	EA	120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	230.62
26 01 50 51-0223	EA	120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	230.62
26 01 50 51-0224	EA	120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	230.62
26 01 50 51-0225	EA	150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	275.80
26 01 50 51-0226	EA	150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	275.80
26 01 50 51-0227	EA	150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	275.80
26 01 50 51-0228	EA	150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	275.80
26 01 50 51-0229	EA	20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED20WPT40KMED-G6)	87.18
26 01 50 51-0230	EA	20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED20WPT50KMED-G6)	94.71
26 01 50 51-0231	EA	27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED27WPT40KMED-G5)	94.71
26 01 50 51-0232	EA	27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED27WPT50KMED-G5)	87.18
26 01 50 51-0233	EA	36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED36WPT40KMED-G5)	110.85
26 01 50 51-0234	EA	36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED36WPT50KMED-G5)	101.16
26 01 50 51-0235	EA	45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED45WPT40KMED-G5)	122.68
26 01 50 51-0236	EA	45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED45WPT50KMED-G5)	121.41
26 01 50 51-0237	EA	54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED54WPT40KMED-G5)	124.29
26 01 50 51-0238	EA	54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED54WPT50KMED-G5)	124.29
26 01 50 51-0239	EA	27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED27WPT40KMED-G7)	73.23
26 01 50 51-0240	EA	27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED27WPT50KMED-G7)	73.23
26 01 50 51-0241	EA	36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED36WPT40KMED-G7)	83.18
26 01 50 51-0242	EA	36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED36WPT50KMED-G7)	83.18
26 01 50 51-0243	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED45WPT40KMED-G7)	89.79
26 01 50 51-0244	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED45WPT50KMED-G7)	89.79
26 01 50 51-0245	EA	54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED54WPT40KMED-G7)	99.73
26 01 50 51-0246	EA	54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED54WPT50KMED-G7)	99.73
26 01 50 51-0247	EA	20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	100.25
26 01 50 51-0248	EA	30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	109.07
26 01 50 51-0249	EA	40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	136.94
26 01 50 51-0250	EA	50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	151.35
26 01 50 51-0251	EA	10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	56.36
26 01 50 51-0252	EA	15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	64.10
26 01 50 51-0253	EA	20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	67.98
26 01 50 51-0254	EA	25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	75.18
26 01 50 51-0255	EA	15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148015-UNV)	91.45
26 01 50 51-0256	EA	20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148020-UNV)	108.01
26 01 50 51-0257	EA	25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148025-UNV)	149.38
26 01 50 51-0258	EA	30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148030-UNV)	157.66
26 01 50 51-0259	EA	35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148035-UNV)	170.90
26 01 50 51-0260	EA	40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148040-UNV)	179.17
26 01 50 51-0261	EA	60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148060-UNV)	260.28
26 01 50 51-0262	EA	20 Watts, 5000K CCT, 120-277 Volts, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-IOD-20W-E26-50K)	62.16

26 01 50 51-0263 HID LED Lamps, Mogul Base EX39 Or EX39 (26 01 50 51-0110)

26 01 50 51-0264	EA	120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39)	246.93
26 01 50 51-0265	EA	120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39)	246.93
26 01 50 51-0266	EA	120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39)	246.93



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0267	EA		27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39).....	69.47	
26 01 50 51-0268	EA		27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R).....	69.47	
26 01 50 51-0269	EA		27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39).....	69.47	
26 01 50 51-0270	EA		45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39).....	89.36	
26 01 50 51-0271	EA		45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R).....	89.36	
26 01 50 51-0272	EA		45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39).....	89.36	
26 01 50 51-0273	EA		80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39).....	170.05	
26 01 50 51-0274	EA		80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039).....	186.51	
26 01 50 51-0275	EA		80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039).....	186.51	
26 01 50 51-0276	EA		80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039).....	186.51	
26 01 50 51-0277	EA		80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039).....	186.51	
26 01 50 51-0278	EA		100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039).....	192.97	
26 01 50 51-0279	EA		100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039).....	192.97	
26 01 50 51-0280	EA		100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039).....	192.97	
26 01 50 51-0281	EA		100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039).....	192.97	
26 01 50 51-0282	EA		120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039).....	230.62	
26 01 50 51-0283	EA		120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039).....	230.62	
26 01 50 51-0284	EA		120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039).....	230.62	
26 01 50 51-0285	EA		120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039).....	230.62	
26 01 50 51-0286	EA		150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039).....	275.80	
26 01 50 51-0287	EA		150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039).....	275.80	
26 01 50 51-0288	EA		150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039).....	275.80	
26 01 50 51-0289	EA		150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039).....	275.80	
26 01 50 51-0290	EA		27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5).....	94.71	
26 01 50 51-0291	EA		27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5).....	94.71	
26 01 50 51-0292	EA		36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5).....	110.85	
26 01 50 51-0293	EA		36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5).....	109.36	
26 01 50 51-0294	EA		45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5).....	122.68	
26 01 50 51-0295	EA		45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5).....	121.41	
26 01 50 51-0296	EA		54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5).....	124.29	
26 01 50 51-0297	EA		54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5).....	120.55	
26 01 50 51-0298	EA		100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5).....	266.84	
26 01 50 51-0299	EA		20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/40KMOG-G7).....	94.68	
26 01 50 51-0300	EA		20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/50KMOG-G7).....	94.68	
26 01 50 51-0301	EA		30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/40KMOG-G7).....	108.06	
26 01 50 51-0302	EA		30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/50KMOG-G7).....	108.06	
26 01 50 51-0303	EA		40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/40KMOG-G7).....	116.11	
26 01 50 51-0304	EA		40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/50KMOG-G7).....	116.11	
26 01 50 51-0305	EA		27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7).....	73.10	
26 01 50 51-0306	EA		27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7).....	73.10	
26 01 50 51-0307	EA		36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7).....	83.18	
26 01 50 51-0308	EA		36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7).....	83.18	
26 01 50 51-0309	EA		45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7).....	89.79	
26 01 50 51-0310	EA		45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7).....	89.79	
26 01 50 51-0311	EA		54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7).....	99.73	
26 01 50 51-0312	EA		54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7).....	99.73	
26 01 50 51-0313	EA		65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39).....	183.52	
26 01 50 51-0314	EA		80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39).....	212.99	
26 01 50 51-0315	EA		100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39).....	254.95	
26 01 50 51-0316	EA		120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39).....	502.02	
26 01 50 51-0317	EA		150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39).....	473.80	
26 01 50 51-0318	EA		200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39).....	502.02	
26 01 50 51-0319	EA		250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39).....	504.21	
26 01 50 51-0320	EA		24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A).....	72.60	
26 01 50 51-0321	EA		24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A).....	72.60	
26 01 50 51-0322	EA		24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A).....	72.60	
26 01 50 51-0323	EA		100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50).....	219.75	
26 01 50 51-0324	EA		115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D).....	230.01	
26 01 50 51-0325	EA		40 Watts, 120-277 Volts, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K).....	171.13	
26 01 50 51-0326	EA		100 Watts, 480 Volts, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K).....	202.28	
26 01 50 51-0327	EA		45 Watts, 120-277 Volts, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-45W-E39-50K).....	87.06	
26 01 50 51-0328	EA		40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K).....	162.41	
26 01 50 51-0329			LED Lamps, 2G11 Base <small>(26 01 50 51-0110)</small>		
26 01 50 51-0330	EA		19 Watt, 1550 Lumens, 3500K, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR).....	28.28	
26 01 50 51-0331			LED Lamps, GX23 Base <small>(26 01 50 51-0110)</small>		
26 01 50 51-0332	EA		5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4).....	14.79	
26 01 50 51-0333			LED Lamps, G24 Base <small>(26 01 50 51-0110)</small>		
26 01 50 51-0334	EA		5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R).....	18.70	
26 01 50 51-0335			LED Tubes (Fluorescent Lamp Replacement) <small>(26 01 50 51-0110)</small>		
26 01 50 51-0336	EA		2', 1,250 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K).....	25.60	
			<i>For Multiple Lamps In Fixture, Deduct</i>		-2.55

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0337 EA 2', 1,900 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K).....	32.62	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0338 EA 3', 1,900 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K).....	27.54	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.71	
26 01 50 51-0339 EA 4', 1,900 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K).....	30.07	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0340 EA 4', 2,200 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K).....	32.70	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0341 EA 4', 2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN).....	21.51	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0342 EA 2', 1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN).....	20.55	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0343 EA 2', 1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF).....	18.92	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0344 EA 3', 1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF).....	19.35	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.71	
26 01 50 51-0345 EA 4', 1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF).....	19.48	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0346 EA 4', 2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF).....	20.11	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0347 Filament LED Lamps (26 01 50 51-0110)		
26 01 50 51-0348 EA 7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827).....	20.85	
26 01 50 51-0349 EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R).....	20.85	
26 01 50 51-0350 EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827).....	19.77	
26 01 50 51-0351 EA 4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A).....	19.77	
26 01 50 51-0352 EA 4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827).....	21.50	
26 01 50 51-0353 EA 4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A).....	21.50	
26 01 50 51-0354 EA 3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827).....	17.62	
26 01 50 51-0355 EA 3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26).....	17.62	
26 01 50 51-0356 EA 3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A).....	18.27	
26 01 50 51-0357 EA 3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A).....	23.00	
26 01 50 51-0358 Other Lamps (26 01 50 51-0110)		
26 01 50 51-0359 EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1).....	19.60	
26 01 50 51-0360 EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM).....	19.60	
26 01 50 51-0361 EA 11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM).....	19.60	
26 01 50 51-0362 EA 12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1).....	20.68	
26 01 50 51-0363 EA 13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1).....	20.68	
26 01 50 51-0364 EA 8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1).....	20.68	
26 01 50 51-0365 Recycle Hazardous Lamps (26 01 50 51)		
Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 01 22 23 00-0001 for work over 14' to add appropriate aerial lift, 26 01 50 51-0001 for removal of lamps from fixtures.		
26 01 50 51-0366 EA Recycle 2' Length Linear Fluorescent Lamps.....	0.26	
26 01 50 51-0367 EA Recycle 3' Length Linear Fluorescent Lamps.....	0.39	
26 01 50 51-0368 EA Recycle 4' Length Linear Fluorescent Lamps.....	0.52	
26 01 50 51-0369 EA Recycle 6' Length Linear Fluorescent Lamps.....	0.78	
26 01 50 51-0370 EA Recycle 8' Length Linear Fluorescent Lamps.....	1.03	
26 01 50 51-0371 EA Recycle Compact Fluorescent Lamps.....	0.47	
26 01 50 51-0372 EA Recycle U-Shaped Or Circular Fluorescent Lamps.....	0.47	
26 01 50 51-0373 EA Recycle High Intensity Discharge (HID) Lamps.....	1.62	
26 01 50 52 Ballasts Replacement (26 01 50)		
26 01 50 52-0001 High Intensity Discharge (HID) Ballasts (26 01 50 52)		
26 01 50 52-0002 Magnetic High Intensity Discharge (HID) Ballasts (26 01 50 52-0001)		
26 01 50 52-0003 Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0004 Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0003)		
26 01 50 52-0005 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	123.89	24.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 01 50 52-0006 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	126.80	24.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 01 50 52-0007 EA 1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	126.80	24.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 01 50 52-0008 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	113.71	24.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 01 50 52-0009 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	113.71	24.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 01 50 52-0010 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	174.08	24.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0011 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	174.08 10.15	24.16
26 01 50 52-0012 EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	223.03 10.15	24.16
26 01 50 52-0013 EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	247.99 10.15	24.16
26 01 50 52-0014 High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0003)</small>		
26 01 50 52-0015 EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.38 10.15	24.16
26 01 50 52-0016 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	118.89 10.15	24.16
26 01 50 52-0017 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	116.08 10.15	24.16
26 01 50 52-0018 EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.65 10.15	24.16
26 01 50 52-0019 EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.86 10.15	24.16
26 01 50 52-0020 EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.02 10.15	24.16
26 01 50 52-0021 EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.02 10.15	24.16
26 01 50 52-0022 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	181.23 10.15	24.16
26 01 50 52-0023 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	181.23 10.15	24.16
26 01 50 52-0024 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	287.23 10.15	24.16
26 01 50 52-0025 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	287.23 10.15	24.16
26 01 50 52-0026 Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0003)</small>		
26 01 50 52-0027 EA Single Mounting Bracket For Core And Coil Type <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.74 2.90	
26 01 50 52-0028 EA Double Mounting Bracket For Core And Coil Type <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.68 4.35	
26 01 50 52-0029 F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0002)</small>		
26 01 50 52-0030 Metal Halide, F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0029)</small>		
26 01 50 52-0031 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	155.97 12.22 10.15	24.16
26 01 50 52-0032 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	164.04 13.02 10.15	24.16
26 01 50 52-0033 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	149.85 11.60 10.15	24.16
26 01 50 52-0034 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	173.18 13.94 10.15	24.16
26 01 50 52-0035 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	238.56 20.47 10.15	24.16
26 01 50 52-0036 High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0029)</small>		
26 01 50 52-0037 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	186.58 10.15	24.16
26 01 50 52-0038 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	199.18 10.15	24.16
26 01 50 52-0039 Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0002)</small>		
26 01 50 52-0040 Metal Halide, Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0039)</small>		
26 01 50 52-0041 EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	307.32 10.15	24.16
26 01 50 52-0042 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0039)</small>		
26 01 50 52-0043 EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	470.89 10.15	24.16
26 01 50 52-0044 EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	524.58 10.15	24.16

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0045 EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	506.01 10.15	24.16
26 01 50 52-0046 Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0047 Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0046)		
26 01 50 52-0048 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	377.25 10.15	24.16
26 01 50 52-0049 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	427.52 10.15	24.16
26 01 50 52-0050 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	563.10 10.15	24.16
26 01 50 52-0051 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	560.19 10.15	24.16
26 01 50 52-0052 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	783.19 10.73	26.10
26 01 50 52-0053 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	783.19 10.73	26.10
26 01 50 52-0054 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	540.24 10.15	24.16
26 01 50 52-0055 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	634.73 10.15	24.16
26 01 50 52-0056 High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0046)		
26 01 50 52-0057 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	699.70 10.15	24.16
26 01 50 52-0058 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	666.40 10.15	24.16
26 01 50 52-0059 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	855.21 10.15	24.16
26 01 50 52-0060 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	855.21 10.15	24.16
26 01 50 52-0061 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0062 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0061)		
26 01 50 52-0063 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	423.32 10.15	24.16
26 01 50 52-0064 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	456.87 10.15	24.16
26 01 50 52-0065 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	453.57 10.15	24.16
26 01 50 52-0066 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	476.05 10.15	24.16
26 01 50 52-0067 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	753.88 10.73	26.10
26 01 50 52-0068 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	925.54 10.73	26.10
26 01 50 52-0069 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	703.61 10.15	24.16
26 01 50 52-0070 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	641.02 10.15	24.16
26 01 50 52-0071 High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0061)		
26 01 50 52-0072 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	545.08 10.15	24.16
26 01 50 52-0073 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	587.40 10.15	24.16
26 01 50 52-0074 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	874.75 10.15	24.16
26 01 50 52-0075 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	753.34 10.15	24.16
26 01 50 52-0076 Electronic High Intensity Discharge (HID) Ballasts (26 01 50 52-0001)		
26 01 50 52-0077 Electronic Low Frequency High Intensity Discharge (HID) Ballasts (26 01 50 52-0076)		
26 01 50 52-0078 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.06 10.15	24.16
26 01 50 52-0079 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.06 10.15	24.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0080 EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	193.27	24.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 01 50 52-0081 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	490.52	24.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 01 50 52-0082 EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	490.52	24.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 01 50 52-0083 EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	490.52	24.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 01 50 52-0084 EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	490.52	24.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 01 50 52-0085 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	490.52	24.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 01 50 52-0086 Owner Supplied Ballasts (26 01 50 52)		
26 01 50 52-0087 EA Install Owner Supplied, 1 Lamp Fluorescent Ballast.....	19.32	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.80	
26 01 50 52-0088 EA Install Owner Supplied, 2 Lamp Fluorescent Ballast.....	24.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.25	
26 01 50 52-0089 EA Install Owner Supplied, 3 Lamp Fluorescent Ballast.....	28.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.41	
26 01 50 52-0090 EA Install Owner Supplied, 4 Lamp Fluorescent Ballast.....	29.96	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.99	
26 01 50 52-0091 EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast.....	33.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 01 50 52-0092 EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast.....	35.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	
26 01 50 53 Lens and Accessory Replacement (26 01 50)		
26 01 50 53-0001 EA Parabolic Aluminum Louver Replacement.....	105.54	
26 01 50 53-0002 EA Visor For Fixtures	196.29	
26 01 50 53-0003 EA Replace Globe On Pole	252.97	
26 01 50 53-0004 EA Replace Lenses For Flat Top Pole Fixtures.....	91.44	
26 01 50 53-0005 EA Replace 1' x 4' Diffuser With Prismatic Acrylic Diffuser, 0.125" Thick.....	29.08	
26 01 50 53-0006 EA Replace 2' x 2' Diffuser With Prismatic Acrylic Diffuser, 0.125" Thick.....	30.64	
26 01 50 53-0007 EA Replace 2' x 4' Diffuser With Prismatic Acrylic Diffuser, 0.125" Thick.....	37.44	
26 01 50 53-0008 EA Replace Slide-On Lampholder.....	12.12	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.90	
26 01 50 53-0009 EA Replace Screw Mount Lampholder.....	12.36	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.90	
26 01 50 53-0010 EA Replace Medium Bi-Pin Lampholder	14.43	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.90	
26 01 50 53-0011 EA Replace Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type	17.62	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.90	
26 01 50 53-0012 EA Replace Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	19.70	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.90	
26 01 50 53-0013 EA Replace Compact Twin-Tube Lampholder, Snap-in	14.12	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.90	
26 01 50 53-0014 EA Replace Exterior Light Globes.....	51.28	
26 05 Common Work Results For Electrical (26)		
26 05 13 Medium-Voltage Cables (26 05)		
26 05 13 16 Medium-Voltage, Single-And Multi-Conductor Cables (26 05 13)		
26 05 13 16-0001 Wire And Cable (26 05 13 16)		
Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.		
26 05 13 16-0002 5 KV Cable (26 05 13 16-0001)		
26 05 13 16-0003 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct (26 05 13 16-0002)		
26 05 13 16-0004 MLF #6 AWG Cable, XLP, 5 KV, Installed In Duct, Shielded, Single Copper Conductor.....	2,781.06	748.20
26 05 13 16-0005 MLF #4 AWG Cable, XLP, 5 KV, Installed In Duct, Shielded, Single Copper Conductor.....	3,273.46	816.97
26 05 13 16-0006 MLF #2 AWG Cable, XLP, 5 KV, Installed In Duct, Shielded, Single Copper Conductor.....	3,892.87	923.04
26 05 13 16-0007 MLF #1/0 AWG Cable, XLP, 5 KV, Installed In Duct, Shielded, Single Copper Conductor.....	5,035.34	1,137.22
26 05 13 16-0008 MLF #2/0 AWG Cable, XLP, 5 KV, Installed In Duct, Shielded, Single Copper Conductor.....	5,731.20	1,280.61
26 05 13 16-0009 MLF #3/0 AWG Cable, XLP, 5 KV, Installed In Duct, Shielded, Single Copper Conductor.....	6,994.05	1,421.45
26 05 13 16-0010 MLF #4/0 AWG Cable, XLP, 5 KV, Installed In Duct, Shielded, Single Copper Conductor.....	7,871.75	1,597.14
26 05 13 16-0011 MLF 250 MCM Cable, XLP, 5 KV, Installed In Duct, Shielded, Single Copper Conductor.....	9,312.58	1,776.89
26 05 13 16-0012 MLF 350 MCM Cable, XLP, 5 KV, Installed In Duct, Shielded, Single Copper Conductor.....	10,869.30	2,121.57
26 05 13 16-0013 MLF 500 MCM Cable, XLP, 5 KV, Installed In Duct, Shielded, Single Copper Conductor.....	13,654.92	2,493.85
26 05 13 16-0014 MLF 750 MCM Cable, XLP, 5 KV, Installed In Duct, Shielded, Single Copper Conductor.....	20,137.38	2,939.27
26 05 13 16-0015 MLF 1,000 MCM Cable, XLP, 5 KV, Installed In Duct, Shielded, Single Copper Conductor.....	26,624.53	3,384.49

26 Electrical**26 05 Common Work Results For Electrical****26 05 13 Medium-Voltage Cables**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0016			Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial <small>(26 05 13 16-0002)</small> Note: Excludes excavation.		
26 05 13 16-0017	MLF		#6 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	2,687.53	
26 05 13 16-0018	MLF		#4 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	3,007.95	
26 05 13 16-0019	MLF		#2 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	3,362.11	
26 05 13 16-0020	MLF		#1/0 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	4,144.96	
26 05 13 16-0021	MLF		#2/0 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	4,482.25	
26 05 13 16-0022	MLF		#3/0 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	5,568.31	
26 05 13 16-0023	MLF		#4/0 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	6,006.79	
26 05 13 16-0024	MLF		250 MCM Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	7,178.06	
26 05 13 16-0025	MLF		350 MCM Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	7,966.41	
26 05 13 16-0026	MLF		500 MCM Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	9,905.45	
26 05 13 16-0027			Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) <small>(26 05 13 16-0002)</small>		
26 05 13 16-0028	MLF		#6 AWG Cable, XLP, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	2,150.67	471.12
26 05 13 16-0029	MLF		#4 AWG Cable, XLP, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	2,560.85	505.13
26 05 13 16-0030	MLF		#2 AWG Cable, XLP, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	3,266.60	638.79
26 05 13 16-0031	MLF		#1/0 AWG Cable, XLP, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	4,233.50	775.48
26 05 13 16-0032	MLF		#2/0 AWG Cable, XLP, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	4,925.78	910.34
26 05 13 16-0033	MLF		#3/0 AWG Cable, XLP, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	6,180.65	1,041.06
26 05 13 16-0034	MLF		#4/0 AWG Cable, XLP, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	7,058.28	1,207.93
26 05 13 16-0035	MLF		250 MCM Cable, XLP, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	8,870.42	1,519.65
26 05 13 16-0036	MLF		350 MCM Cable, XLP, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	10,626.45	1,922.84
26 05 13 16-0037	MLF		500 MCM Cable, XLP, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	13,779.26	2,415.87
26 05 13 16-0038			5 KV Non-Shielded Single Copper Conductor <small>(26 05 13 16-0002)</small>		
26 05 13 16-0039	MLF		#1/0 AWG Cable, 5 KV, Non-Shielded, Single Copper Conductor	6,003.76	1,491.06
26 05 13 16-0040	MLF		#3/0 AWG Cable, 5 KV, Non-Shielded, Single Copper Conductor	7,704.32	1,533.92
26 05 13 16-0041	MLF		#4/0 AWG Cable, 5 KV, Non-Shielded, Single Copper Conductor	8,016.53	1,567.83
26 05 13 16-0042	MLF		350 MCM Cable, 5 KV, Non-Shielded, Single Copper Conductor	9,515.77	1,627.64
26 05 13 16-0043	MLF		500 MCM Cable, 5 KV, Non-Shielded, Single Copper Conductor	13,368.88	1,705.78
26 05 13 16-0044	MLF		750 MCM Cable, 5 KV, Non-Shielded, Single Copper Conductor	20,504.60	2,132.23
26 05 13 16-0045	MLF		1,000 MCM Cable, 5 KV, Non-Shielded, Single Copper Conductor.....	23,798.85	2,843.00
26 05 13 16-0046			Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct <small>(26 05 13 16-0002)</small>		
26 05 13 16-0047	MLF		#6 AWG Cable, EPR, 5 KV, Installed In Duct, Shielded, Single Copper Conductor	2,944.98	748.20
26 05 13 16-0048	MLF		#4 AWG Cable, EPR, 5 KV, Installed In Duct, Shielded, Single Copper Conductor	3,495.06	816.97
26 05 13 16-0049	MLF		#2 AWG Cable, EPR, 5 KV, Installed In Duct, Shielded, Single Copper Conductor	4,178.21	923.04
26 05 13 16-0050	MLF		#1 AWG Cable, EPR, 5 KV, Installed In Duct, Shielded, Single Copper Conductor	4,803.94	1,030.08
26 05 13 16-0051	MLF		#1/0 AWG Cable, EPR, 5 KV, Installed In Duct, Shielded, Single Copper Conductor	5,429.97	1,137.22
26 05 13 16-0052	MLF		#2/0 AWG Cable, EPR, 5 KV, Installed In Duct, Shielded, Single Copper Conductor	6,186.54	1,280.61
26 05 13 16-0053	MLF		#3/0 AWG Cable, EPR, 5 KV, Installed In Duct, Shielded, Single Copper Conductor	7,613.31	1,421.45
26 05 13 16-0054	MLF		#4/0 AWG Cable, EPR, 5 KV, Installed In Duct, Shielded, Single Copper Conductor	8,569.93	1,597.14
26 05 13 16-0055	MLF		250 MCM Cable, EPR, 5 KV, Installed In Duct, Shielded, Single Copper Conductor	10,189.26	1,776.89
26 05 13 16-0056	MLF		350 MCM Cable, EPR, 5 KV, Installed In Duct, Shielded, Single Copper Conductor	11,871.04	2,121.57
26 05 13 16-0057	MLF		500 MCM Cable, EPR, 5 KV, Installed In Duct, Shielded, Single Copper Conductor	14,990.58	2,493.85
26 05 13 16-0058	MLF		750 MCM Cable, EPR, 5 KV, Installed In Duct, Shielded, Single Copper Conductor	22,439.91	2,939.27
26 05 13 16-0059	MLF		1,000 MCM Cable, EPR, 5 KV, Installed In Duct, Shielded, Single Copper Conductor	29,893.93	3,384.49
26 05 13 16-0060			Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial <small>(26 05 13 16-0002)</small> Note: Excludes excavation.		
26 05 13 16-0061	MLF		#6 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	2,851.45	
26 05 13 16-0062	MLF		#4 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	3,229.55	
26 05 13 16-0063	MLF		#2 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	3,647.46	
26 05 13 16-0064	MLF		#1 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	4,093.93	
26 05 13 16-0065	MLF		#1/0 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	4,539.59	
26 05 13 16-0066	MLF		#2/0 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	4,937.59	
26 05 13 16-0067	MLF		#3/0 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	6,187.57	
26 05 13 16-0068	MLF		#4/0 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	6,704.97	
26 05 13 16-0069	MLF		250 MCM Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	8,054.74	
26 05 13 16-0070	MLF		350 MCM Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	8,968.15	
26 05 13 16-0071	MLF		500 MCM Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	11,241.11	
26 05 13 16-0072			Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) <small>(26 05 13 16-0002)</small>		
26 05 13 16-0073	MLF		#6 AWG Cable, EPR, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	2,314.59	471.12
26 05 13 16-0074	MLF		#4 AWG Cable, EPR, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	2,782.45	505.13
26 05 13 16-0075	MLF		#2 AWG Cable, EPR, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	3,551.94	638.79
26 05 13 16-0076	MLF		#1 AWG Cable, EPR, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	4,088.78	706.63



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0077	MLF			#1/0 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	4,628.13	775.48
26 05 13 16-0078	MLF			#2/0 AWG Cable, EPR, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	5,381.12	910.34
26 05 13 16-0079	MLF			#3/0 AWG Cable, EPR, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	6,799.91	1,041.06
26 05 13 16-0080	MLF			#4/0 AWG Cable, EPR, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	7,756.46	1,207.93
26 05 13 16-0081	MLF			250 MCM Cable, EPR, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	9,747.10	1,519.65
26 05 13 16-0082	MLF			350 MCM Cable, EPR, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	11,628.19	1,922.84
26 05 13 16-0083	MLF			500 MCM Cable, EPR, 5 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation.....	15,114.92	2,415.87
26 05 13 16-0084				15 KV Cable (26 05 13 16-0001)		
26 05 13 16-0085				Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 16-0084)		
26 05 13 16-0086				Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct (26 05 13 16-0085)		
26 05 13 16-0087	MLF			#4 AWG, XLP, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,796.98	1,491.06
26 05 13 16-0088	MLF			#2 AWG, XLP, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,217.94	1,491.06
26 05 13 16-0089	MLF			#1 AWG, XLP, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,378.51	1,491.06
26 05 13 16-0090	MLF			#1/0 AWG, XLP, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,901.59	1,491.06
26 05 13 16-0091	MLF			#2/0 AWG, XLP, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,398.07	1,491.06
26 05 13 16-0092	MLF			#3/0 AWG, XLP, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	8,394.72	1,556.42
26 05 13 16-0093	MLF			#4/0 AWG, XLP, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	8,589.77	1,556.42
26 05 13 16-0094	MLF			250 MCM, XLP, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	9,831.85	1,627.64
26 05 13 16-0095	MLF			350 MCM, XLP, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	11,070.91	1,665.80
26 05 13 16-0096	MLF			500 MCM, XLP, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	13,574.36	1,876.36
26 05 13 16-0097				Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0085)		
				Note: Excludes excavation.		
26 05 13 16-0098	MLF			#1 AWG, XLP, 15 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation Cable.....	4,774.59	
26 05 13 16-0099	MLF			#1/0 AWG, XLP, 15 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,297.66	
26 05 13 16-0100	MLF			#2/0 AWG, XLP, 15 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,794.14	
26 05 13 16-0101	MLF			#3/0 AWG, XLP, 15 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,811.40	
26 05 13 16-0102	MLF			#4/0 AWG, XLP, 15 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,006.44	
26 05 13 16-0103	MLF			250 MCM, XLP, 15 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation Cable.....	8,336.94	
26 05 13 16-0104	MLF			350 MCM, XLP, 15 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation Cable.....	9,578.37	
26 05 13 16-0105	MLF			500 MCM, XLP, 15 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation Cable.....	11,868.59	
26 05 13 16-0106				Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0085)		
26 05 13 16-0107	MLF			#1 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable.....	4,422.27	673.02
26 05 13 16-0108	MLF			#1/0 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,215.06	775.48
26 05 13 16-0109	MLF			#2/0 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,066.53	910.34
26 05 13 16-0110	MLF			#3/0 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,244.10	1,041.06
26 05 13 16-0111	MLF			#4/0 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,878.29	1,207.93
26 05 13 16-0112	MLF			250 MCM, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable.....	9,464.20	1,406.19
26 05 13 16-0113	MLF			350 MCM, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable.....	11,219.41	1,638.57
26 05 13 16-0114	MLF			500 MCM, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable.....	13,893.53	1,903.35
26 05 13 16-0115				Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 16-0084)		
26 05 13 16-0116				Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct (26 05 13 16-0115)		
26 05 13 16-0117	MLF			#4 AWG, EPR, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,169.46	1,491.06
26 05 13 16-0118	MLF			#2 AWG, EPR, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,666.19	1,491.06
26 05 13 16-0119	MLF			#1 AWG, EPR, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,855.67	1,491.06
26 05 13 16-0120	MLF			#1/0 AWG, EPR, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,472.90	1,491.06
26 05 13 16-0121	MLF			#2/0 AWG, EPR, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	8,058.75	1,491.06
26 05 13 16-0122	MLF			#3/0 AWG, EPR, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	9,205.40	1,556.42
26 05 13 16-0123	MLF			#4/0 AWG, EPR, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	9,435.56	1,556.42
26 05 13 16-0124	MLF			250 MCM, EPR, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	10,869.14	1,627.64
26 05 13 16-0125	MLF			350 MCM, EPR, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	12,314.07	1,665.80
26 05 13 16-0126	MLF			500 MCM, EPR, 15 KV, Installed In Duct, Shielded, Single Copper Conductor, 133% Insulation Cable.....	15,173.38	1,876.36
26 05 13 16-0127				Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0115)		
				Note: Excludes excavation.		
26 05 13 16-0128	MLF			#1 AWG, EPR, 15 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,251.74	
26 05 13 16-0129	MLF			#1/0 AWG, EPR, 15 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,868.97	
26 05 13 16-0130	MLF			#2/0 AWG, EPR, 15 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,454.81	
26 05 13 16-0131	MLF			#3/0 AWG, EPR, 15 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,622.08	
26 05 13 16-0132	MLF			#4/0 AWG, EPR, 15 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,852.23	
26 05 13 16-0133	MLF			250 MCM, EPR, 15 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation Cable.....	9,371.22	

26 Electrical**26 05 Common Work Results For Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0134 MLF 350 MCM, EPR, 15 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation Cable	10,814.83	
26 05 13 16-0135 MLF 500 MCM, EPR, 15 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation Cable	13,467.61	
26 05 13 16-0136 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0115)		
26 05 13 16-0137 MLF #1 AWG, EPR, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable	4,899.42	673.02
26 05 13 16-0138 MLF #1/0 AWG, EPR, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable	5,786.37	775.48
26 05 13 16-0139 MLF #2/0 AWG, EPR, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable	6,727.20	910.34
26 05 13 16-0140 MLF #3/0 AWG, EPR, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable	8,054.78	1,041.06
26 05 13 16-0141 MLF #4/0 AWG, EPR, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable	8,724.08	1,207.93
26 05 13 16-0142 MLF 250 MCM, EPR, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable	10,501.49	1,406.19
26 05 13 16-0143 MLF 350 MCM, EPR, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable	12,462.56	1,638.57
26 05 13 16-0144 MLF 500 MCM, EPR, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable	15,492.55	1,903.35
26 05 13 16-0145 15 KV Non-Shielded Single Copper Conductor (26 05 13 16-0084)		
26 05 13 16-0146 MLF #1/0 AWG Cable, 15 KV, Non-Shielded, Single Copper Conductor.....	8,048.37	1,496.29
26 05 13 16-0147 MLF #3/0 AWG Cable, 15 KV, Non-Shielded, Single Copper Conductor.....	10,301.21	1,567.83
26 05 13 16-0148 MLF 350 MCM Cable, 15 KV, Non-Shielded, Single Copper Conductor.....	13,955.95	1,672.31
26 05 13 16-0149 Shielded, Armored Copper, 15 KV, 3 Conductor Cable (26 05 13 16-0084)		
Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 16-0150 Galvanized Steel Interlocked Armor Cable (26 05 13 16-0149)		
26 05 13 16-0151 LF #2 AWG TC 3 Conductor 15 KV Galvanized Armored Shielded, Laid In Cable Tray Or Hung Vertically.....	40.02	11.41
26 05 13 16-0152 LF #1/0 AWG TC 3 Conductor 15 KV Galvanized Armored Shielded, Laid In Cable Tray Or Hung Vertically.....	47.24	12.15
26 05 13 16-0153 Aluminum Interlocked Armor Cable (26 05 13 16-0149)		
26 05 13 16-0154 LF #2 AWG TC 3 Conductor 15 KV Aluminum Armored Shielded, Laid In Cable Tray Or Hung Vertically.....	40.02	11.41
26 05 13 16-0155 LF #1/0 AWG TC 3 Conductor 15 KV Aluminum Armored Shielded, Laid In Cable Tray Or Hung Vertically.....	47.24	12.15
26 05 13 16-0156 Type URD, 15 KV Primary Concentric UD Cable (26 05 13 16-0084)		
Note: 0.175" XLPE insulation, copper conductor.		
26 05 13 16-0157 MLF #4 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	2,874.05	748.20
26 05 13 16-0158 MLF #2 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	3,399.17	816.97
26 05 13 16-0159 MLF #1 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	4,054.74	923.04
26 05 13 16-0160 MLF #1/0 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	5,251.65	1,134.13
26 05 13 16-0161 MLF #2/0 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	5,979.91	1,276.78
26 05 13 16-0162 MLF #3/0 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	7,345.34	1,421.45
26 05 13 16-0163 MLF #4/0 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	8,252.92	1,591.18
26 05 13 16-0164 15 KV, URD Copper Cable, Direct Burial (26 05 13 16-0084)		
26 05 13 16-0165 MLF #6 AWG Cable, 3 Conductor, 15 KV, URD Copper Cable, Direct Burial.....	12,866.72	
26 05 13 16-0166 Wire Connections (26 05 13 16-0001)		
26 05 13 16-0167 Medium Voltage Up To 5 KV (26 05 13 16-0166)		
26 05 13 16-0168 Shielded One Conductor Cable Splice (26 05 13 16-0167)		
26 05 13 16-0169 EA #6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	247.62	96.51
26 05 13 16-0170 EA #2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	296.67	96.51
26 05 13 16-0171 EA 1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	296.67	96.51
26 05 13 16-0172 EA 2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	325.38	115.80
26 05 13 16-0173 EA 3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	325.38	115.80
26 05 13 16-0174 EA 4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	325.38	115.80
26 05 13 16-0175 EA 250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	363.68	135.10
26 05 13 16-0176 EA 350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	363.68	135.10
26 05 13 16-0177 EA 500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	363.68	135.10
26 05 13 16-0178 Cable Termination Without Stress Cone (26 05 13 16-0167)		
26 05 13 16-0179 EA #6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	233.90	115.80
26 05 13 16-0180 EA 250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV.....	276.42	135.10
26 05 13 16-0181 Cable Termination With Stress Cone (26 05 13 16-0167)		
26 05 13 16-0182 EA #6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV	881.07	231.61
26 05 13 16-0183 EA 250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV.....	1,217.07	318.45
26 05 13 16-0184 Connect To Pothead, Pothead Included (26 05 13 16-0167)		
26 05 13 16-0185 EA #6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV	910.70	231.61
26 05 13 16-0186 EA 250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV	1,139.48	265.38



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0187				Two Conductor Pothead <small>(26 05 13 16-0187)</small>		
				Note: Includes 5 KV pothead.		
26 05 13 16-0188	EA			#6 To 4/0 AWG 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV.....	821.82	318.45
26 05 13 16-0189	EA			250 To 350 MCM 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV.....	1,071.89	405.31
26 05 13 16-0190	EA			400 To 700 MCM 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV.....	1,480.50	459.54
26 05 13 16-0191	EA			750 MCM 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV.....	2,195.10	536.16
26 05 13 16-0192	EA			1,000 MCM 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV.....	3,854.07	804.15
26 05 13 16-0193				Three Conductor Pothead <small>(26 05 13 16-0193)</small>		
				Note: Includes 5 KV pothead.		
26 05 13 16-0194	EA			#6 To 4/0 3/c 5 KV Pothead (Included) Medium Voltage To 5 KV.....	2,482.68	463.21
26 05 13 16-0195	EA			250 To 500 MCM 3/c 5 KV Pothead (Included) Medium Voltage To 5 KV.....	2,751.67	540.41
26 05 13 16-0196				Copper Cable Splice, Crimp Compression Connection <small>(26 05 13 16-0196)</small>		
				Note: For bare wire.		
26 05 13 16-0197	EA			#6 AWG Crimp Compression Connection For Bare Copper Wire.....	60.66	
26 05 13 16-0198	EA			#4 AWG Crimp Compression Connection For Bare Copper Wire.....	66.63	
26 05 13 16-0199	EA			#3 AWG Crimp Compression Connection For Bare Copper Wire.....	77.69	
26 05 13 16-0200	EA			#2 AWG Crimp Compression Connection For Bare Copper Wire.....	88.36	
26 05 13 16-0201	EA			#1 AWG Crimp Compression Connection For Bare Copper Wire.....	99.61	
26 05 13 16-0202	EA			1/0 AWG Crimp Compression Connection For Bare Copper Wire.....	110.62	
26 05 13 16-0203	EA			2/0 AWG Crimp Compression Connection For Bare Copper Wire.....	121.54	
26 05 13 16-0204	EA			3/0 AWG Crimp Compression Connection For Bare Copper Wire.....	132.85	
26 05 13 16-0205	EA			4/0 AWG Crimp Compression Connection For Bare Copper Wire.....	143.94	
26 05 13 16-0206	EA			250 MCM Crimp Compression Connection For Bare Copper Wire.....	155.19	
26 05 13 16-0207	EA			300 MCM Crimp Compression Connection For Bare Copper Wire.....	166.67	
26 05 13 16-0208	EA			350 MCM Crimp Compression Connection For Bare Copper Wire.....	177.61	
26 05 13 16-0209	EA			400 MCM Crimp Compression Connection For Bare Copper Wire.....	200.43	
26 05 13 16-0210	EA			500 MCM Crimp Compression Connection For Bare Copper Wire.....	223.80	
26 05 13 16-0211				Aluminum Cable Splice, Crimp Compression Connection <small>(26 05 13 16-0211)</small>		
				Note: For bare wire.		
26 05 13 16-0212	EA			#6 AWG Crimp Compression Connection For Bare Aluminum Wire.....	61.71	
26 05 13 16-0213	EA			#4 AWG Crimp Compression Connection For Bare Aluminum Wire.....	67.21	
26 05 13 16-0214	EA			#2 AWG Crimp Compression Connection For Bare Aluminum Wire.....	90.29	
26 05 13 16-0215	EA			#1 AWG Crimp Compression Connection For Bare Aluminum Wire.....	104.51	
26 05 13 16-0216	EA			1/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	115.25	
26 05 13 16-0217	EA			2/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	125.96	
26 05 13 16-0218	EA			3/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	137.98	
26 05 13 16-0219	EA			4/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	149.36	
26 05 13 16-0220	EA			250 MCM Crimp Compression Connection For Bare Aluminum Wire.....	160.49	
26 05 13 16-0221	EA			300 MCM Crimp Compression Connection For Bare Aluminum Wire.....	171.85	
26 05 13 16-0222	EA			350 MCM Crimp Compression Connection For Bare Aluminum Wire.....	183.05	
26 05 13 16-0223	EA			400 MCM Crimp Compression Connection For Bare Aluminum Wire.....	208.22	
26 05 13 16-0224	EA			500 MCM Crimp Compression Connection For Bare Aluminum Wire.....	233.51	
26 05 13 16-0225				15 KV <small>(26 05 13 16-0225)</small>		
26 05 13 16-0226				Single Conductor Pothead On Racks <small>(26 05 13 16-0226)</small>		
				Note: Includes pothead.		
26 05 13 16-0227	EA			#2 To 4/0 AWG 1/c 15 KV Pothead (Included), On Racks.....	1,010.00	405.31
26 05 13 16-0228	EA			250 To 500 MCM 1/c 15 KV Pothead (Included), On Racks.....	1,278.03	501.80
26 05 13 16-0229				Two Conductor Pothead On Rack <small>(26 05 13 16-0229)</small>		
				Note: Includes pothead.		
26 05 13 16-0230	EA			#2 To 4/0 AWG 2/c 15 KV Pothead (Included), On Racks.....	1,514.78	617.61
26 05 13 16-0231	EA			250 To 500 MCM 2/c 15 KV Pothead (Included), On Racks.....	1,808.51	733.41
26 05 13 16-0232				Three Conductor Pothead On Rack <small>(26 05 13 16-0232)</small>		
				Note: Includes pothead.		
26 05 13 16-0233	EA			#2 To 4/0 AWG 3/c 15 KV Pothead (Included), On Racks.....	1,948.72	800.96
26 05 13 16-0234	EA			250 To 500 MCM 3/c 15 KV Pothead (Included), On Racks.....	2,431.13	1,003.62
26 05 13 16-0235				Stress Relief Cone On Rack <small>(26 05 13 16-0235)</small>		
26 05 13 16-0236	EA			#2 To 4/0 AWG Stress Relief Cone, On Rack.....	974.21	405.31
26 05 13 16-0237	EA			250 To 500 MCM Stress Relief Cone, On Rack.....	1,237.78	501.80
26 05 13 16-0238				Grounded, Shielded Cable Splice <small>(26 05 13 16-0238)</small>		
26 05 13 16-0239	EA			#2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV.....	693.93	299.16
26 05 13 16-0240	EA			250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV.....	891.87	386.00
26 05 13 16-0241	EA			3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way.....	3,475.87	1,061.52
26 05 13 16-0242	EA			3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way.....	4,254.18	1,158.02

26 Electrical**26 05 Common Work Results For Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0243 Cable Termination <small>(26 05 13 16-0225)</small>		
26 05 13 16-0244 EA #2 To 3/0 AWG Cable Termination 15 KV <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	430.15 101.33	168.87
26 05 13 16-0245 EA 4/0 To 250 MCM Cable Termination 15 KV <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	547.29 130.28	217.13
26 05 13 16-0246 EA 350 To 500 MCM Cable Termination 15 KV <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	674.62 159.23	265.38
26 05 13 16-0247 EA #2 To 3/0 AWG Cable Elbow Termination 15 KV <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	262.69 57.90	96.51
26 05 13 16-0248 Stress Cones, 5-15 KV, 4 Skirted <small>(26 05 13 16-0225)</small>		
26 05 13 16-0249 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	457.28	125.45
26 05 13 16-0250 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	516.29	138.66
26 05 13 16-0251 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	599.94	151.74
26 05 13 16-0252 EA 400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	750.87	174.83
26 05 13 16-0253 Stress Cones, 5-15 KV, 6 Skirted <small>(26 05 13 16-0225)</small>		
26 05 13 16-0254 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	914.59	251.33
26 05 13 16-0255 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,032.67	277.30
26 05 13 16-0256 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,188.63	297.84
26 05 13 16-0257 EA 400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,501.73	349.64
26 05 13 16-0258 35 KV <small>(26 05 13 16-0166)</small>		
26 05 13 16-0259 35 KV One Conductor Splice <small>(26 05 13 16-0258)</small>		
26 05 13 16-0260 EA Cable Splicing, #1 Stranded To 4/0 Stranded, 35 KV	1,726.31	
26 05 13 16-0261 Cable Termination <small>(26 05 13 16-0258)</small>		
26 05 13 16-0262 EA #2 To 3/0 AWG Cable Termination 35 KV	343.26	115.90
26 05 13 16-0263 EA 3/0 AWG To 250 MCM Cable Termination 35 KV	486.06	174.86
26 05 13 16-0264 EA 350 To 500 MCM Cable Termination 35 KV	547.65	187.02
26 05 13 16-0265 EA #2 To 3/0 AWG Cable Elbow Termination 35 KV	277.10	96.51
26 05 13 16-0266 70 KV <small>(26 05 13 16-0166)</small>		
26 05 13 16-0267 Cable Splice <small>(26 05 13 16-0266)</small>		
26 05 13 16-0268 EA Cable Splicing, 350 MCM 70 KV.....	6,147.08	
26 05 13 16-0269 EA Cable Splicing, #2 To 4/0 70 KV	1,762.52	
26 05 19 Low-Voltage Electrical Power Conductors And Cables <small>(26 05)</small>		
26 05 19 16 Low-Voltage, Single-And Multi-Conductor Cables <small>(26 05 19)</small>		
26 05 19 16-0001 Cable Installation Methods <small>(26 05 19 16)</small>		
26 05 19 16-0002 Pull Cord <small>(26 05 19 16-0001)</small>		
Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.		
26 05 19 16-0003 LF Pull String Installed To Remain In Place, In Existing Conduit.....	0.30	
26 05 19 16-0004 LF Pull String Installed To Remain In Place, In New Conduits.....	0.15	
26 05 19 16-0005 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit.....	0.49	
26 05 19 16-0006 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.29	
26 05 19 16-0007 Bore Conduit Into Dirt Or Sand <small>(26 05 19 16-0001)</small>		
Note: For installation under roads, driveways or other structures up to 20'.		
26 05 19 16-0008 LF Bore 1" To 4" Conduit Into Dirt Or Sand	2.55	
26 05 19 16-0009 LF Bore 5" To 8" Conduit Into Dirt Or Sand	3.25	
26 05 19 16-0010 EA Boring Minimum Set-Up Charge	357.87	
Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
26 05 19 16-0011 Wire and Cable <small>(26 05 19 16)</small>		
Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.		
26 05 19 16-0012 600 Volt Wire <small>(26 05 19 16-0011)</small>		
26 05 19 16-0013 Single Solid Conductor, Copper <small>(26 05 19 16-0012)</small>		
26 05 19 16-0014 MLF #14 AWG Cable - Type THHN-THWN, 600 Volt Copper, Single Solid, Placed In Conduit.....	513.05	214.11
26 05 19 16-0015 MLF #12 AWG Cable - Type THHN-THWN, 600 Volt Copper, Single Solid, Placed In Conduit.....	637.38	251.88
26 05 19 16-0016 MLF #10 AWG Cable - Type THHN-THWN, 600 Volt Copper, Single Solid, Placed In Conduit.....	780.71	307.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0017 MLF #14 AWG Cable - Type XHHW, 600 Volt Copper, Single Solid, Placed In Conduit.....	664.93	214.11
26 05 19 16-0018 MLF #12 AWG Cable - Type XHHW, 600 Volt Copper, Single Solid, Placed In Conduit.....	801.06	251.88
26 05 19 16-0019 MLF #10 AWG Cable - Type XHHW, 600 Volt Copper, Single Solid, Placed In Conduit.....	956.90	307.99
26 05 19 16-0020 Power Cable, Stranded Conductor, Copper <small>(26 05 19 16-0012)</small>		
26 05 19 16-0021 Power Cable, Stranded, Single Conductor, XHHW-2 <small>(26 05 19 16-0020)</small>		
26 05 19 16-0022 MLF #16 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	523.73	176.45
26 05 19 16-0023 MLF #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	620.69	211.74
26 05 19 16-0024 MLF #12 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	754.52	247.03
26 05 19 16-0025 MLF #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	913.25	282.31
26 05 19 16-0026 MLF #8 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,200.87	352.89
26 05 19 16-0027 MLF #6 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,585.51	423.47
26 05 19 16-0028 MLF #4 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,135.75	529.34
26 05 19 16-0029 MLF #3 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,508.72	599.91
26 05 19 16-0030 MLF #2 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,942.98	670.49
26 05 19 16-0031 MLF #1 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,586.06	741.08
26 05 19 16-0032 MLF 1/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	4,273.33	846.94
26 05 19 16-0033 MLF 2/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	5,076.43	952.80
26 05 19 16-0034 MLF 3/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	6,019.80	1,058.68
26 05 19 16-0035 MLF 4/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	7,141.88	1,164.54
26 05 19 16-0036 MLF 250 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	7,593.75	1,270.41
26 05 19 16-0037 MLF 300 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	8,914.40	1,376.28
26 05 19 16-0038 MLF 350 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	9,519.28	1,482.14
26 05 19 16-0039 MLF 400 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	10,599.69	1,588.01
26 05 19 16-0040 MLF 500 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	12,173.82	1,693.88
26 05 19 16-0041 MLF 600 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	13,940.04	1,835.04
26 05 19 16-0042 MLF 750 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	20,677.15	2,046.77
26 05 19 16-0043 MLF 1,000 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	28,828.77	2,399.67
26 05 19 16-0044 Power Cable, Stranded, Multi Conductor, XHHW-2 <small>(26 05 19 16-0020)</small>		
26 05 19 16-0045 MLF 2/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	1,241.38	423.38
26 05 19 16-0046 MLF 3/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	1,509.17	494.14
26 05 19 16-0047 MLF 4/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	1,865.28	599.91
26 05 19 16-0048 MLF 6/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,179.52	652.58
26 05 19 16-0049 MLF 7/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,359.61	688.05
26 05 19 16-0050 MLF 9/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,718.45	758.54
26 05 19 16-0051 MLF 10/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,067.88	790.65
26 05 19 16-0052 MLF 12/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	3,257.71	864.59
26 05 19 16-0053 MLF 14/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	3,573.08	917.70
26 05 19 16-0054 MLF 24/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	5,104.01	1,164.63
26 05 19 16-0055 MLF 37/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	7,702.96	1,729.17
26 05 19 16-0056 MLF 2/c #12 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	1,509.26	494.14
26 05 19 16-0057 MLF 3/c #12 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	1,910.76	599.91
26 05 19 16-0058 MLF 4/c #12 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,312.28	705.79
26 05 19 16-0059 MLF 2/c #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,002.25	634.94
26 05 19 16-0060 MLF 3/c #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,561.61	775.65
26 05 19 16-0061 MLF 4/c #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	3,300.49	988.27
26 05 19 16-0062 MLF 6/c #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	4,421.86	1,270.85
26 05 19 16-0063 MLF 9/c #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	5,925.55	1,623.39
26 05 19 16-0064 MLF 2/c #8 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,445.85	723.43
26 05 19 16-0065 MLF 3/c #8 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	3,073.27	846.94
26 05 19 16-0066 MLF 4/c #8 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	3,965.36	1,076.32
26 05 19 16-0067 MLF 2/c #6 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	3,082.86	811.65
26 05 19 16-0068 MLF 3/c #6 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	4,094.83	1,005.74
26 05 19 16-0069 MLF 4/c #6 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	5,208.34	1,240.42
26 05 19 16-0070 MLF 2/c #4 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	4,086.59	984.74
26 05 19 16-0071 MLF 3/c #4 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	5,253.10	1,126.35
26 05 19 16-0072 MLF 4/c #4 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	6,763.46	1,405.56
26 05 19 16-0073 MLF 2/c #2 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	5,532.15	1,199.48
26 05 19 16-0074 MLF 3/c #2 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	7,153.54	1,341.34
26 05 19 16-0075 MLF 4/c #2 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	9,478.09	1,764.45
26 05 19 16-0076 MLF 3/c #1 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	9,434.12	1,693.62
26 05 19 16-0077 MLF 4/c #1 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	12,224.63	2,116.46
26 05 19 16-0078 MLF 3/c #1/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	11,056.36	1,835.39
26 05 19 16-0079 MLF 3/c #2/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	13,374.35	2,116.46
26 05 19 16-0080 MLF 3/c #3/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	16,292.27	2,469.18
26 05 19 16-0081 MLF 4/c #3/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	21,429.08	3,174.70
26 05 19 16-0082 MLF 3/c #4/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	19,755.46	2,825.52
26 05 19 16-0083 MLF 3/c 250 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	21,189.80	3,174.70
26 05 19 16-0084 MLF 3/c 350 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	26,264.02	3,528.92
26 05 19 16-0085 MLF 3/c 500 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	33,513.51	3,878.45
26 05 19 16-0086 Underground Feeder And Branch Circuit Suitable, Single Stranded Copper <small>(26 05 19 16-0012)</small>		
Note: Direct bury.		
26 05 19 16-0087 MLF #14 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	733.23	
26 05 19 16-0088 MLF #12 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	861.96	

26 Electrical
26 05 Common Work Results For Electrical
26 05 19 Low-Voltage Electrical Power Conductors And Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0089 MLF #10 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	1,068.28	
26 05 19 16-0090 MLF #8 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	1,397.22	
26 05 19 16-0091 MLF #6 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	1,923.99	
26 05 19 16-0092 MLF #4 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	2,521.58	
26 05 19 16-0093 MLF #2 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	3,601.90	
26 05 19 16-0094 MLF #1 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	4,437.66	
26 05 19 16-0095 MLF #1/0 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	5,414.52	
26 05 19 16-0096 MLF #2/0 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	6,526.65	
26 05 19 16-0097 MLF #3/0 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	7,825.91	
26 05 19 16-0098 MLF #4/0 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	8,825.99	
26 05 19 16-0099 MLF 250 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	9,562.12	
26 05 19 16-0100 MLF 300 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	11,380.46	
26 05 19 16-0101 MLF 350 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	12,697.50	
26 05 19 16-0102 MLF 400 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	14,229.63	
26 05 19 16-0103 MLF 500 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	16,766.36	
26 05 19 16-0104 MLF 600 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	19,741.24	
26 05 19 16-0105 MLF 750 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	30,944.51	
26 05 19 16-0106 MLF #14 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	616.99	
26 05 19 16-0107 MLF #12 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	734.88	
26 05 19 16-0108 MLF #10 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	870.38	
26 05 19 16-0109 MLF #8 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	1,072.27	
26 05 19 16-0110 MLF #6 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	1,357.62	
26 05 19 16-0111 MLF #4 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	1,781.43	
26 05 19 16-0112 MLF #2 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	2,384.58	
26 05 19 16-0113 MLF #1 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	2,784.42	
26 05 19 16-0114 MLF #1/0 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	3,157.55	
26 05 19 16-0115 MLF #2/0 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	3,557.52	
26 05 19 16-0116 MLF #3/0 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	4,099.72	
26 05 19 16-0117 MLF #4/0 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	4,739.59	
26 05 19 16-0118 MLF 250 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	5,340.30	
26 05 19 16-0119 MLF 300 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	5,969.82	
26 05 19 16-0120 MLF 350 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	6,646.71	
26 05 19 16-0121 MLF 400 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	7,344.20	
26 05 19 16-0122 MLF 500 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	8,443.64	
26 05 19 16-0123 MLF 750 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	13,564.54	
26 05 19 16-0124 MLF #14 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	516.81	
26 05 19 16-0125 MLF #12 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	637.64	
26 05 19 16-0126 MLF #10 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	780.25	
26 05 19 16-0127 MLF #8 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	1,077.19	
26 05 19 16-0128 MLF #6 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	1,438.67	
26 05 19 16-0129 MLF #4 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	1,868.50	
26 05 19 16-0130 MLF #2 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	2,635.40	
26 05 19 16-0131 MLF #1 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	3,112.37	
26 05 19 16-0132 MLF #1/0 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	3,618.54	
26 05 19 16-0133 MLF #2/0 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	4,086.05	
26 05 19 16-0134 MLF #3/0 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	4,794.71	
26 05 19 16-0135 MLF #4/0 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	5,670.70	
26 05 19 16-0136 MLF 250 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	6,613.11	
26 05 19 16-0137 MLF 300 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	7,592.32	
26 05 19 16-0138 MLF 350 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	8,640.03	
26 05 19 16-0139 MLF 400 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	9,653.18	
26 05 19 16-0140 MLF 500 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	11,361.77	
26 05 19 16-0141 MLF 600 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	13,575.04	
26 05 19 16-0142 MLF 750 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	20,948.36	
26 05 19 16-0143 MLF #2 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	4,412.58	
26 05 19 16-0144 MLF #1/0 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	6,322.60	
26 05 19 16-0145 MLF #2/0 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	7,021.20	
26 05 19 16-0146 MLF #3/0 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	7,972.42	
26 05 19 16-0147 MLF #4/0 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	8,859.14	
26 05 19 16-0148 MLF 250 MCM Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	9,548.88	
26 05 19 16-0149 MLF 350 MCM Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	13,655.11	
26 05 19 16-0150 MLF 400 MCM Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	14,842.42	
26 05 19 16-0151 MLF 500 MCM Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	16,915.03	

26 05 19 16-0152 600 Volt, Armored Cable, Copper Conductors (26 05 19 16-0012)

26 05 19 16-0153 ACTHH, Solid (26 05 19 16-0152)

26 05 19 16-0154 MLF #8 AWG Cable - Type ACT, 1 Conductor, Solid	1,946.78	579.01
26 05 19 16-0155 MLF #6 AWG Cable - Type ACT, 1 Conductor, Solid	2,239.63	656.21
26 05 19 16-0156 MLF #4 AWG Cable - Type ACT, 1 Conductor, Solid	2,535.36	694.82
26 05 19 16-0157 MLF #14 AWG Cable - Type ACTHH, 2 Conductors, Solid	2,870.99	965.01
26 05 19 16-0158 MLF #12 AWG Cable - Type ACTHH, 2 Conductors, Solid	3,098.83	1,080.63
26 05 19 16-0159 MLF #10 AWG Cable - Type ACTHH, 2 Conductors, Solid	3,839.89	1,197.30
26 05 19 16-0160 MLF #8 AWG Cable - Type ACTHH, 2 Conductors, Solid	4,895.86	1,312.90
26 05 19 16-0161 MLF #14 AWG Cable - Type ACTHH, 3 Conductors, Solid	3,429.50	1,080.63
26 05 19 16-0162 MLF #12 AWG Cable - Type ACTHH, 3 Conductors, Solid	3,624.66	1,197.30
26 05 19 16-0163 MLF #10 AWG Cable - Type ACTHH, 3 Conductors, Solid	4,547.36	1,351.60



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0164 MLF #8 AWG Cable - Type ACTHH, 3 Conductors, Solid	5,765.87	1,466.63
26 05 19 16-0165 MLF #14 AWG Cable - Type ACTHH, 4 Conductors, Solid	4,044.83	1,197.30
26 05 19 16-0166 MLF #12 AWG Cable - Type ACTHH, 4 Conductors, Solid	4,451.60	1,351.60
26 05 19 16-0167 MLF #10 AWG Cable - Type ACTHH, 4 Conductors, Solid	5,559.82	1,505.52
26 05 19 16-0168 MLF #8 AWG Cable - Type ACTHH, 4 Conductors, Solid	7,050.52	1,621.91
26 05 19 16-0169 ACTHH, Stranded <small>(26 05 19 16-0152)</small>		
26 05 19 16-0170 MLF #8 AWG Cable - Type ACTHH, 2 Conductors, Stranded.....	5,089.77	1,390.49
26 05 19 16-0171 MLF #6 AWG Cable - Type ACTHH, 2 Conductors, Stranded.....	6,152.71	1,581.95
26 05 19 16-0172 MLF #8 AWG Cable - Type ACTHH, 3 Conductors, Stranded.....	5,959.46	1,544.03
26 05 19 16-0173 MLF #6 AWG Cable - Type ACTHH, 3 Conductors, Stranded.....	7,378.99	1,735.68
26 05 19 16-0174 MLF #4 AWG Cable - Type ACTHH, 3 Conductors, Stranded.....	9,212.20	1,930.03
26 05 19 16-0175 MLF #3 AWG Cable - Type ACTHH, 3 Conductors, Stranded.....	10,545.01	2,120.92
26 05 19 16-0176 MLF #2 AWG Cable - Type ACTHH, 3 Conductors, Stranded.....	12,028.72	2,314.21
26 05 19 16-0177 MLF #8 AWG Cable - Type ACTHH, 4 Conductors, Stranded.....	7,626.43	1,852.25
26 05 19 16-0178 MLF #6 AWG Cable - Type ACTHH, 4 Conductors, Stranded.....	9,140.23	2,044.49
26 05 19 16-0179 MLF #4 AWG Cable - Type ACTHH, 4 Conductors, Stranded.....	11,574.54	2,239.03
26 05 19 16-0180 MLF #3 AWG Cable - Type ACTHH, 4 Conductors, Stranded.....	12,673.90	2,430.78
26 05 19 16-0181 MLF #2 AWG Cable - Type ACTHH, 4 Conductors, Stranded.....	14,914.48	2,622.34
26 05 19 16-0182 HCFC, Solid <small>(26 05 19 16-0152)</small>		
26 05 19 16-0183 MLF #14 AWG Cable - Type HCF, 2 Conductors, Solid	3,158.95	965.01
26 05 19 16-0184 MLF #12 AWG Cable - Type HCF, 2 Conductors, Solid	3,471.80	1,084.29
26 05 19 16-0185 MLF #10 AWG Cable - Type HCF, 2 Conductors, Solid	3,870.92	1,191.41
26 05 19 16-0186 MLF #14 AWG Cable - Type HCF, 3 Conductors, Solid	3,789.14	1,084.29
26 05 19 16-0187 MLF #12 AWG Cable - Type HCF, 3 Conductors, Solid	4,078.57	1,191.41
26 05 19 16-0188 MLF #10 AWG Cable - Type HCF, 3 Conductors, Solid	5,240.65	1,359.22
26 05 19 16-0189 MLF #14 AWG Cable - Type HCF, 4 Conductors, Solid	4,589.38	1,191.41
26 05 19 16-0190 MLF #12 AWG Cable - Type HCF, 4 Conductors, Solid	5,041.45	1,359.22
26 05 19 16-0191 MLF #10 AWG Cable - Type HCF, 4 Conductors, Solid	6,727.14	1,507.84
26 05 19 16-0192 MC, Solid Or Stranded, Galvanized Steel Armor <small>(26 05 19 16-0152)</small>		
26 05 19 16-0193 MLF #14 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	2,890.00	965.01
26 05 19 16-0194 MLF #12 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	3,230.02	1,084.29
26 05 19 16-0195 MLF #10 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	3,846.78	1,191.41
26 05 19 16-0196 MLF #8 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	4,839.25	1,273.15
26 05 19 16-0197 MLF #6 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	5,949.93	1,349.67
26 05 19 16-0198 MLF #14 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	3,328.24	1,084.29
26 05 19 16-0199 MLF #12 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	3,744.92	1,191.41
26 05 19 16-0200 MLF #10 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	4,709.38	1,359.22
26 05 19 16-0201 MLF #8 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	6,024.50	1,466.63
26 05 19 16-0202 MLF #6 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	7,003.10	1,581.95
26 05 19 16-0203 MLF #4 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	8,584.05	1,699.01
26 05 19 16-0204 MLF #2 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	10,885.73	1,813.95
26 05 19 16-0205 MLF #14 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	3,837.87	1,191.41
26 05 19 16-0206 MLF #12 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	4,394.89	1,359.22
26 05 19 16-0207 MLF #10 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	6,469.25	1,507.84
26 05 19 16-0208 MLF #8 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	8,654.17	1,660.98
26 05 19 16-0209 MLF #6 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	10,498.11	1,777.18
26 05 19 16-0210 MLF #4 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	13,712.20	1,892.21
26 05 19 16-0211 MLF #2 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	17,578.82	2,006.27
26 05 19 16-0212 FPLP Solid TFN Red Armored Cable <small>(26 05 19 16-0152)</small>		
Note: Color coded red.		
26 05 19 16-0213 MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	2,770.53	733.41
26 05 19 16-0214 MLF #18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	3,154.98	849.21
26 05 19 16-0215 MLF #18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	3,864.11	965.01
26 05 19 16-0216 MLF #18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	4,418.19	1,080.82
26 05 19 16-0217 MLF #16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	3,161.16	849.21
26 05 19 16-0218 MLF #16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	3,715.80	965.01
26 05 19 16-0219 MLF #16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	4,596.27	1,080.82
26 05 19 16-0220 MLF #16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	5,211.03	1,196.62
26 05 19 16-0221 FPLP Solid THHN Red Armored Cable <small>(26 05 19 16-0152)</small>		
Note: Color coded red.		
26 05 19 16-0222 MLF #14/2 With #14 Ground Type THHN FPLP Red Armored Cable	3,523.12	965.01
26 05 19 16-0223 MLF #14/4 With #14 Ground Type THHN FPLP Red Armored Cable	4,312.02	1,080.82
26 05 19 16-0224 MLF #14/6 With #14 Ground Type THHN FPLP Red Armored Cable	5,608.19	1,196.62
26 05 19 16-0225 MLF #14/8 With #14 Ground Type THHN FPLP Red Armored Cable	6,462.26	1,312.42
26 05 19 16-0226 MLF #12/2 With #12 Ground Type THHN FPLP Red Armored Cable	4,371.57	1,080.82
26 05 19 16-0227 MLF #12/4 With #12 Ground Type THHN FPLP Red Armored Cable	5,281.81	1,196.62
26 05 19 16-0228 FPLP Twisted Shielded Pair Red Armored Cable <small>(26 05 19 16-0152)</small>		
Note: Color coded red.		
26 05 19 16-0229 MLF #18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	2,972.76	733.41

26 Electrical
26 05 Common Work Results For Electrical
26 05 19 Low-Voltage Electrical Power Conductors And Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0230 MLF #18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	4,713.11	1,080.82
26 05 19 16-0231 MLF #16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	3,627.97	849.21
26 05 19 16-0232 MLF #16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable.....	4,265.20	965.01
26 05 19 16-0233 MLF #16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable.....	5,853.68	1,196.62
26 05 19 16-0234 MLF #14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable.....	4,254.40	1,003.62
26 05 19 16-0235 MLF #14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable.....	5,212.28	1,158.02
26 05 19 16-0236 Armored Cable Connectors (26 05 19 16-0152)		
26 05 19 16-0237 EA 3/4" Armored Cable Connector.....	5.71	2.11
For Work In Restricted Working Space, Add	1.59	
For Installation Above 14', Add	0.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.59	
26 05 19 16-0238 EA 1" Armored Cable Connector.....	7.62	2.83
For Work In Restricted Working Space, Add	2.12	
For Installation Above 14', Add	1.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.12	
26 05 19 16-0239 EA 1-1/4" Armored Cable Connector.....	9.56	3.53
For Work In Restricted Working Space, Add	2.65	
For Installation Above 14', Add	1.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.65	
26 05 19 16-0240 600 Volt, Feeder Wire, Single Stranded Copper (26 05 19 16-0012)		
26 05 19 16-0241 MLF #12 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit.....	689.18	214.20
26 05 19 16-0242 MLF #10 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit.....	857.69	251.88
26 05 19 16-0243 MLF #8 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,211.98	342.57
26 05 19 16-0244 MLF #6 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,661.52	410.05
26 05 19 16-0245 MLF #4 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,211.93	478.08
26 05 19 16-0246 MLF #2 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,175.88	615.88
26 05 19 16-0247 MLF #1 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,795.89	685.22
26 05 19 16-0248 MLF #1/0 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit.....	4,416.99	772.03
26 05 19 16-0249 MLF #2/0 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit.....	5,023.06	856.47
26 05 19 16-0250 MLF #3/0 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit.....	5,985.00	961.71
26 05 19 16-0251 MLF #4/0 AWG Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit.....	7,151.94	1,060.97
26 05 19 16-0252 MLF 250 MCM Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit.....	8,416.92	1,166.30
26 05 19 16-0253 MLF 300 MCM Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit.....	9,736.22	1,274.82
26 05 19 16-0254 MLF 350 MCM Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit.....	11,156.61	1,370.36
26 05 19 16-0255 MLF 400 MCM Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit.....	12,526.01	1,522.64
26 05 19 16-0256 MLF 500 MCM Cable - Type THW 600 Volt Copper, Single Stranded, Placed In Conduit.....	14,921.84	1,678.00
26 05 19 16-0257 MLF #14 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	677.47	141.42
For EPR Insulation, Add	22.22	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	51.85	
26 05 19 16-0258 MLF #12 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	768.56	156.60
For EPR Insulation, Add	22.65	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	52.85	
26 05 19 16-0259 MLF #10 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	926.25	195.76
For EPR Insulation, Add	33.07	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	77.16	
26 05 19 16-0260 MLF #8 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,244.67	311.43
For EPR Insulation, Add	54.37	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	126.85	
26 05 19 16-0261 MLF #6 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,667.71	373.71
For EPR Insulation, Add	91.35	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	213.16	
26 05 19 16-0262 MLF #4 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,244.73	433.88
For EPR Insulation, Add	138.21	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	322.49	
26 05 19 16-0263 MLF #3 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,558.70	496.61
For EPR Insulation, Add	158.84	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	370.62	
26 05 19 16-0264 MLF #2 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,172.70	559.33
For EPR Insulation, Add	224.47	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	523.76	
26 05 19 16-0265 MLF #1 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,874.65	622.94
For EPR Insulation, Add	303.30	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	707.69	
26 05 19 16-0266 MLF #1/0 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	4,642.64	702.78
For EPR Insulation, Add	378.80	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	883.86	
26 05 19 16-0267 MLF #2/0 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	5,556.38	779.36
For EPR Insulation, Add	476.15	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,111.03	
26 05 19 16-0268 MLF #3/0 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	6,613.43	870.05
For EPR Insulation, Add	595.01	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,388.36	
26 05 19 16-0269 MLF #4/0 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	7,441.37	967.36
For EPR Insulation, Add	679.50	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,585.50	
26 05 19 16-0270 MLF 250 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	7,943.33	1,060.97
For EPR Insulation, Add	715.10	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,668.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0271 MLF 300 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	9,296.56 878.38 2,049.55	1,166.30
26 05 19 16-0272 MLF 350 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	10,337.38 994.80 2,321.21	1,236.44
26 05 19 16-0273 MLF 400 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	11,536.83 1,135.02 2,648.38	1,381.92
26 05 19 16-0274 MLF 500 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	13,107.51 1,330.92 3,105.48	1,536.93
26 05 19 16-0275 MLF 600 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	15,254.39 1,600.02 3,733.38	1,599.04
26 05 19 16-0276 MLF 750 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	24,165.61 2,857.30 6,667.04	1,661.06
26 05 19 16-0277 MLF 1,000 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	30,184.81 3,707.25 8,650.25	1,774.87
26 05 19 16-0278 MLF #16 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,133.44	317.43
26 05 19 16-0279 MLF #14 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,386.43	352.89
26 05 19 16-0280 MLF #12 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,726.52	423.83
26 05 19 16-0281 MLF #10 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,041.29	493.87
26 05 19 16-0282 MLF #8 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,896.75	528.81
26 05 19 16-0283 MLF #18 AWG Cable - Type TFFN 600 Volt Copper, Single Stranded, Placed In Conduit.....	403.14	176.45
26 05 19 16-0284 MLF #16 AWG Cable - Type TFFN 600 Volt Copper, Single Stranded, Placed In Conduit.....	502.95	194.09
26 05 19 16-0285 MLF #14 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	513.20	141.51
26 05 19 16-0286 MLF #12 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	632.48	168.68
26 05 19 16-0287 MLF #10 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	772.52	212.18
26 05 19 16-0288 MLF #8 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,063.70	279.67
26 05 19 16-0289 MLF #6 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,416.37	337.72
26 05 19 16-0290 MLF #4 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,834.14	399.12
26 05 19 16-0291 MLF #3 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,178.86	451.79
26 05 19 16-0292 MLF #2 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,581.32	505.96
26 05 19 16-0293 MLF #1 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,043.98	570.98
26 05 19 16-0294 MLF #1/0 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,538.66	625.24
26 05 19 16-0295 MLF #2/0 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,992.31	690.96
26 05 19 16-0296 MLF #3/0 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	4,675.62	730.84
26 05 19 16-0297 MLF #4/0 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	5,522.51	822.23
26 05 19 16-0298 MLF 250 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	6,432.64	874.73
26 05 19 16-0299 MLF 300 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	7,377.82	990.66
26 05 19 16-0300 MLF 350 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	8,388.25	1,096.35
26 05 19 16-0301 MLF 400 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	9,365.76	1,126.35
26 05 19 16-0302 MLF 500 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	11,005.58	1,191.63
26 05 19 16-0303 MLF 600 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	13,486.82	1,402.30
26 05 19 16-0304 MLF 750 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	20,177.66	1,661.06
26 05 19 16-0305 MLF 1,000 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	24,107.93	2,005.49
26 05 19 16-0306 MLF #16 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,566.06	423.83
26 05 19 16-0307 MLF #14 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,772.86	493.87
26 05 19 16-0308 MLF #12 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,043.47	565.07
26 05 19 16-0309 MLF #10 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,519.42	634.94
26 05 19 16-0310 MLF #8 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,835.58	705.79
26 05 19 16-0311 MLF #6 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,445.41	775.65

26 05 19 16-0312 Non-Metallic Sheathed Cable (26 05 19 16-0012)

26 05 19 16-0313 Indoor Installation (26 05 19 16-0312)

Note: For NM, NM-B, NMC-B and NMS-B.

26 05 19 16-0314 MLF #14-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable..... <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1,924.31 251.40	670.41
26 05 19 16-0315 MLF #14-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable..... <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2,366.51 304.38	811.65
26 05 19 16-0316 MLF #12-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable..... <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2,105.05 271.29	762.24
26 05 19 16-0317 MLF #12-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable..... <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2,611.94 317.55	846.76
26 05 19 16-0318 MLF #10-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable..... <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2,647.39 317.71	847.20
26 05 19 16-0319 MLF #10-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable..... <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	3,238.26 370.60	988.27
26 05 19 16-0320 MLF #8-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable..... <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	3,354.94 361.27	1,014.56
26 05 19 16-0321 MLF #8-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable..... <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	4,339.98 436.70	1,226.30
26 05 19 16-0322 MLF #6-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable..... <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	4,025.21 410.24	1,155.72
26 05 19 16-0323 MLF #6-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable..... <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	5,173.55 496.25	1,393.92
26 05 19 16-0324 MLF #4-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable..... <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	6,663.94 545.88	1,535.08

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0325 MLF #2-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable..... <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	9,196.71 595.50	1,667.41
26 05 19 16-0326 Direct Burial Cable <small>(26 05 19 16-0312)</small> Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.		
26 05 19 16-0327 MLF #14-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	2,055.63	
26 05 19 16-0328 MLF #14-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	2,605.49	
26 05 19 16-0329 MLF #12-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	2,598.90	
26 05 19 16-0330 MLF #12-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	3,047.56	
26 05 19 16-0331 MLF #10-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	2,877.51	
26 05 19 16-0332 MLF #10-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	3,617.12	
26 05 19 16-0333 MLF #8-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	3,835.55	
26 05 19 16-0334 MLF #8-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	4,840.36	
26 05 19 16-0335 MLF #6-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	4,922.14	
26 05 19 16-0336 MLF #6-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	5,859.67	
26 05 19 16-0337 SEU Cable Copper, 3 Conductor <small>(26 05 19 16-0312)</small>		
26 05 19 16-0338 MLF 12-12-12 Cable SEU Copper.....	2,521.34	849.50
26 05 19 16-0339 MLF 10-10-10 Cable SEU Copper.....	3,123.36	965.01
26 05 19 16-0340 MLF 8-8-8 Cable SEU Copper.....	3,837.80	1,080.63
26 05 19 16-0341 MLF 6-6-8 Cable SEU Copper.....	4,575.73	1,158.51
26 05 19 16-0342 MLF 6-6-6 Cable SEU Copper.....	4,902.54	1,197.30
26 05 19 16-0343 MLF 4-4-6 Cable SEU Copper.....	5,917.56	1,312.90
26 05 19 16-0344 MLF 4-4-4 Cable SEU Copper.....	6,350.98	1,351.60
26 05 19 16-0345 MLF 3-3-5 Cable SEU Copper.....	7,351.99	1,466.63
26 05 19 16-0346 MLF 3-3-3 Cable SEU Copper.....	7,803.60	1,544.03
26 05 19 16-0347 MLF 2-2-4 Cable SEU Copper.....	8,325.41	1,621.91
26 05 19 16-0348 MLF 2-2-2 Cable SEU Copper.....	8,887.15	1,699.01
26 05 19 16-0349 MLF 1-1-1 Cable SEU Copper.....	10,819.26	1,930.03
26 05 19 16-0350 MLF 1/0-1/0-1/0 Cable SEU Copper.....	12,823.31	2,163.76
26 05 19 16-0351 MLF 2/0-2/0-2/0 Cable SEU Copper.....	15,375.48	2,436.95
26 05 19 16-0352 MLF 3/0-3/0-3/0 Cable SEU Copper.....	18,411.73	2,710.73
26 05 19 16-0353 MLF 4/0-4/0-4/0 Cable SEU Copper.....	20,574.44	3,025.13
26 05 19 16-0354 SER Cable Copper, 4 Conductor <small>(26 05 19 16-0312)</small>		
26 05 19 16-0355 MLF 6-6-6-6 Cable SER Copper.....	7,740.20	1,390.49
26 05 19 16-0356 MLF 4-4-4-6 Cable SER Copper.....	9,909.18	1,505.52
26 05 19 16-0357 MLF 3-3-3-5 Cable SER Copper.....	11,617.41	1,699.01
26 05 19 16-0358 MLF 2-2-2-4 Cable SER Copper.....	13,528.56	1,852.25
26 05 19 16-0359 MLF 1-1-1-3 Cable SER Copper.....	16,444.11	2,120.92
26 05 19 16-0360 MLF 1/0-1/0-1/0-2 Cable SER Copper.....	20,851.47	2,430.78
26 05 19 16-0361 MLF 2/0-2/0-2/0-1 Cable SER Copper.....	24,834.33	2,622.34
26 05 19 16-0362 MLF 3/0-3/0-3/0-1/0 Cable SER Copper.....	29,898.09	2,933.17
26 05 19 16-0363 Control Tray Cable, Low Voltage <small>(26 05 19 16-0011)</small> Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.		
26 05 19 16-0364 MLF 2 Conductor #18 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	911.99 213.98	427.96
26 05 19 16-0365 MLF 3 Conductor #18 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,053.37 239.37	478.74
26 05 19 16-0366 MLF 4 Conductor #18 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,105.42 239.37	478.70
26 05 19 16-0367 MLF 5 Conductor #18 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,383.94 300.21	600.43
26 05 19 16-0368 MLF 7 Conductor #18 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,744.62 365.84	731.67
26 05 19 16-0369 MLF 9 Conductor #18 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,993.90 402.30	804.60
26 05 19 16-0370 MLF 12 Conductor #18 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,375.31 457.11	914.22
26 05 19 16-0371 MLF 15 Conductor #18 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,007.33 558.71	1,117.43
26 05 19 16-0372 MLF 19 Conductor #18 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,441.67 609.53	1,219.06
26 05 19 16-0373 MLF 25 Conductor #18 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,091.86 628.59	1,257.17
26 05 19 16-0374 MLF 30 Conductor #18 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,016.29 785.27	1,570.55
26 05 19 16-0375 MLF 37 Conductor #18 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,020.86 917.74	1,835.48
26 05 19 16-0376 MLF 2 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	999.17 225.23	450.81
26 05 19 16-0377 MLF 3 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,159.24 251.96	503.93
26 05 19 16-0378 MLF 4 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,351.33 290.08	580.15
26 05 19 16-0379 MLF 5 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,532.41 316.01	632.02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0380 MLF 7 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,940.09 385.09	770.19
26 05 19 16-0381 MLF 9 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,227.70 423.47	846.94
26 05 19 16-0382 MLF 12 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,668.41 481.17	962.33
26 05 19 16-0383 MLF 15 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,391.51 588.10	1,176.19
26 05 19 16-0384 MLF 19 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,900.89 641.56	1,283.11
26 05 19 16-0385 MLF 25 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,701.28 661.67	1,323.34
26 05 19 16-0386 MLF 30 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,753.60 826.56	1,653.12
26 05 19 16-0387 MLF 37 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,922.30 966.04	1,932.08
26 05 19 16-0388 MLF 2 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,085.91 235.29	470.58
26 05 19 16-0389 MLF 3 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,302.12 264.67	529.34
26 05 19 16-0390 MLF 4 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,528.82 302.52	605.04
26 05 19 16-0391 MLF 5 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,724.74 325.81	651.62
26 05 19 16-0392 MLF 7 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,307.09 399.38	798.77
26 05 19 16-0393 MLF 9 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,665.31 441.20	882.23
26 05 19 16-0394 MLF 12 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,285.03 492.28	984.56
26 05 19 16-0395 MLF 15 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,923.77 588.10	1,176.02
26 05 19 16-0396 MLF 19 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,724.37 683.11	1,366.58
26 05 19 16-0397 MLF 25 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,904.32 799.04	1,597.72
26 05 19 16-0398 MLF 30 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,873.68 892.73	1,785.45
26 05 19 16-0399 MLF 37 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,290.56 1,043.33	2,086.64
26 05 19 16-0400 MLF 2 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,271.60 251.96	503.93
26 05 19 16-0401 MLF 3 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,526.30 278.70	557.57
26 05 19 16-0402 MLF 4 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,861.74 320.78	641.56
26 05 19 16-0403 MLF 5 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,113.88 341.42	682.85
26 05 19 16-0404 MLF 7 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,799.88 407.06	814.12
26 05 19 16-0405 MLF 9 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,460.89 481.17	962.33
26 05 19 16-0406 MLF 12 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,222.36 542.84	1,085.67
26 05 19 16-0407 MLF 15 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,032.88 622.76	1,245.53
26 05 19 16-0408 MLF 19 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,960.44 705.87	1,411.75
26 05 19 16-0409 MLF 25 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,658.53 824.97	1,649.94
26 05 19 16-0410 MLF 30 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,865.93 964.19	1,928.38
26 05 19 16-0411 MLF 37 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,735.11 1,126.96	2,253.91
26 05 19 16-0412 MLF 2 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,526.86 264.67	529.34
26 05 19 16-0413 MLF 3 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,919.07 290.08	580.51
26 05 19 16-0414 MLF 4 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,344.72 330.83	661.67
26 05 19 16-0415 MLF 5 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,733.94 358.89	717.78
26 05 19 16-0416 MLF 7 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,713.39 450.47	900.93
26 05 19 16-0417 MLF 9 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,412.92 504.20	1,008.39
26 05 19 16-0418 MLF 12 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,142.05 588.10	1,176.19
26 05 19 16-0419 MLF 15 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,085.84 672.52	1,345.05
26 05 19 16-0420 MLF 19 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,230.62 762.25	1,524.49
26 05 19 16-0421 MLF 25 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	9,350.79 890.87	1,781.75

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0422 MLF 30 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,818.26 1,041.21	2,082.42
26 05 19 16-0423 MLF 37 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	13,129.51 1,217.21	2,434.42
26 05 19 16-0424 ACSR (Aluminum Conductor Steel Reinforced) (26 05 19 16-0011) Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.		
26 05 19 16-0425 ACSR Cable (26 05 19 16-0424)		
26 05 19 16-0426 MLF #4 AWG ACSR Cable Swan 6/1 Installed On Poles, Aluminum Cable.....	1,233.82	436.90
26 05 19 16-0427 MLF #4 AWG ACSR Cable Swanate 7/1 Installed On Poles, Aluminum Cable.....	1,295.04	453.65
26 05 19 16-0428 MLF #2 AWG ACSR Cable Sparrow 6/1 Installed On Poles, Aluminum Cable.....	1,370.22	471.12
26 05 19 16-0429 MLF #2 AWG ACSR Cable Sparate 7/1 Installed On Poles, Aluminum Cable.....	1,432.00	488.18
26 05 19 16-0430 MLF #1/0 AWG ACSR Cable Raven 6/1 Installed On Poles, Aluminum Cable.....	1,536.09	504.73
26 05 19 16-0431 MLF #2/0 AWG ACSR Cable Quail 6/1 Installed On Poles, Aluminum Cable.....	1,765.69	572.16
26 05 19 16-0432 MLF #3/0 AWG ACSR Cable Pigeon 6/1 Installed On Poles, Aluminum Cable.....	2,006.30	638.08
26 05 19 16-0433 MLF #4/0 AWG ACSR Cable Penguin 6/1 Installed On Poles, Aluminum Cable.....	2,263.70	704.92
26 05 19 16-0434 MLF #1 Bare Aluminum Wire.....	1,713.29	609.09
26 05 19 16-0435 MLF 336 AWG ACSR Cable Merlin 18/1 Installed On Pole, Aluminum Cable.....	2,773.13	905.90
26 05 19 16-0436 MLF 477 AWG ACSR Cable Hawk 26/1 Installed On Pole, Aluminum Cable.....	3,167.50	1,039.15
26 05 19 16-0437 All Aluminum Conductors (26 05 19 16-0424)		
26 05 19 16-0438 MLF 795.0 ACSR Conductor Aluminum.....	23,404.02	8,528.90
26 05 19 16-0439 Single Conductor Installed On Poles (26 05 19 16-0011)		
26 05 19 16-0440 Bare Stranded Conductor (26 05 19 16-0439)		
26 05 19 16-0441 MLF #12 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	1,084.21	370.17
26 05 19 16-0442 MLF #10 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	1,256.28	403.49
26 05 19 16-0443 MLF #8 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	1,429.42	437.20
26 05 19 16-0444 MLF #6 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	1,721.24	471.12
26 05 19 16-0445 MLF #4 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	2,061.47	505.13
26 05 19 16-0446 MLF #2 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	2,897.87	605.88
26 05 19 16-0447 MLF #1 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	3,319.28	673.02
26 05 19 16-0448 MLF #1/0 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	3,774.38	738.94
26 05 19 16-0449 MLF #2/0 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	5,008.70	876.42
26 05 19 16-0450 MLF #3/0 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	6,052.08	1,007.65
26 05 19 16-0451 MLF #4/0 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	6,523.93	1,142.01
26 05 19 16-0452 MLF 250 MCM 1/c Bare Stranded Copper Cable, Installed On Poles.....	8,211.78	1,345.92
26 05 19 16-0453 MLF 300 MCM 1/c Bare Stranded Copper Cable, Installed On Poles.....	8,418.64	1,416.79
26 05 19 16-0454 MLF 350 MCM 1/c Bare Stranded Copper Cable, Installed On Poles.....	10,378.41	1,483.72
26 05 19 16-0455 MLF 400 MCM 1/c Bare Stranded Copper Cable, Installed On Poles.....	11,424.97	1,544.59
26 05 19 16-0456 MLF 500 MCM 1/c Bare Stranded Copper Cable, Installed On Poles.....	13,231.03	1,610.51
26 05 19 16-0457 Insulated Stranded Conductor (26 05 19 16-0439)		
26 05 19 16-0458 MLF #12 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles.....	1,158.28	370.17
26 05 19 16-0459 MLF #10 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles.....	1,351.85	403.49
26 05 19 16-0460 MLF #8 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles.....	1,618.09	437.20
26 05 19 16-0461 MLF #6 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles.....	1,756.95	471.12
26 05 19 16-0462 MLF #4 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles.....	2,115.96	505.13
26 05 19 16-0463 MLF #2 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles.....	2,819.18	605.88
26 05 19 16-0464 MLF #1 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles.....	3,311.43	673.02
26 05 19 16-0465 MLF #1/0 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles.....	3,883.95	738.94
26 05 19 16-0466 MLF #2/0 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles.....	4,672.25	876.42
26 05 19 16-0467 MLF #3/0 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles.....	5,583.10	1,007.65
26 05 19 16-0468 MLF #4/0 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles.....	6,560.52	1,142.01
26 05 19 16-0469 MLF 250 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles.....	7,987.93	1,345.92
26 05 19 16-0470 MLF 300 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles.....	9,011.17	1,416.79
26 05 19 16-0471 MLF 350 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles.....	9,849.86	1,483.72
26 05 19 16-0472 MLF 400 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles.....	10,986.73	1,544.59
26 05 19 16-0473 MLF 500 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles.....	12,298.90	1,610.51
26 05 19 16-0474 Bare Solid Conductor (26 05 19 16-0439)		
26 05 19 16-0475 MLF #12 AWG 1/c Bare Solid Copper Cable, Installed On Poles.....	1,084.21	370.17
26 05 19 16-0476 MLF #8 AWG 1/c Bare Solid Copper Cable, Installed On Poles.....	1,429.42	437.20
26 05 19 16-0477 MLF #6 AWG 1/c Bare Solid Copper Cable, Installed On Poles.....	1,721.24	471.12
26 05 19 16-0478 MLF #4 AWG 1/c Bare Solid Copper Cable, Installed On Poles.....	2,038.96	505.13
26 05 19 16-0479 Multi-Conductor Cords, Cables And Associated Equipment (26 05 19 16-0011)		
26 05 19 16-0480 Multi-Conductor Cords (26 05 19 16-0479) Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.		
26 05 19 16-0481 Multi-Conductor Type SOOW And SJOOV Cord (26 05 19 16-0480) Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0482	300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0481)</small>	
26 05 19 16-0483	#18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0482)</small>	
26 05 19 16-0484 LF	2/c #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.04 0.39
26 05 19 16-0485 LF	3/c #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.09 0.39
26 05 19 16-0486 LF	4/c #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.24 0.39
26 05 19 16-0487	#16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0482)</small>	
26 05 19 16-0488 LF	2/c #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.20 0.39
26 05 19 16-0489 LF	3/c #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.30 0.39
26 05 19 16-0490 LF	4/c #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.43 0.39
26 05 19 16-0491	#14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0482)</small>	
26 05 19 16-0492 LF	2/c #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.38 0.39
26 05 19 16-0493 LF	3/c #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.52 0.39
26 05 19 16-0494 LF	4/c #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.81 0.39
26 05 19 16-0495	#12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0482)</small>	
26 05 19 16-0496 LF	2/c #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.62 0.39
26 05 19 16-0497 LF	3/c #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.80 0.39
26 05 19 16-0498 LF	4/c #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.05 0.39
26 05 19 16-0499	#10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0482)</small>	
26 05 19 16-0500 LF	2/c #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.16 0.48
26 05 19 16-0501 LF	3/c #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.28 0.48
26 05 19 16-0502 LF	4/c #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.46 0.48
26 05 19 16-0503	600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0481)</small>	
26 05 19 16-0504	#18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0503)</small>	
26 05 19 16-0505 LF	2/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.09 0.39
26 05 19 16-0506 LF	3/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.20 0.39
26 05 19 16-0507 LF	4/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.34 0.39
26 05 19 16-0508 LF	5/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.40 0.52
26 05 19 16-0509 LF	6/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.63 0.53
26 05 19 16-0510 LF	7/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.81 0.55
26 05 19 16-0511 LF	8/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.10 0.56
26 05 19 16-0512 LF	10/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.59 0.59
26 05 19 16-0513 LF	12/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.12 0.61
26 05 19 16-0514 LF	14/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.52 0.62
26 05 19 16-0515 LF	16/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.61 0.64
26 05 19 16-0516 LF	18/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.76 0.65
26 05 19 16-0517 LF	20/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.44 0.66
26 05 19 16-0518 LF	24/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.18 0.68
26 05 19 16-0519 LF	30/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.53 0.72
26 05 19 16-0520	#16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0503)</small>	
26 05 19 16-0521 LF	2/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.29 0.39
26 05 19 16-0522 LF	3/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.38 0.39
26 05 19 16-0523 LF	4/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.57 0.39
26 05 19 16-0524 LF	5/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.52 0.52
26 05 19 16-0525 LF	6/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.79 0.53
26 05 19 16-0526 LF	7/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.07 0.55
26 05 19 16-0527 LF	8/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.41 0.56
26 05 19 16-0528 LF	9/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.55 0.58
26 05 19 16-0529 LF	10/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.97 0.59
26 05 19 16-0530 LF	12/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.67 0.61
26 05 19 16-0531 LF	14/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.03 0.62
26 05 19 16-0532 LF	16/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.71 0.64
26 05 19 16-0533 LF	18/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.63 0.65
26 05 19 16-0534 LF	20/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.47 0.66
26 05 19 16-0535 LF	24/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.08 0.68
26 05 19 16-0536 LF	26/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.01 0.69
26 05 19 16-0537 LF	30/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.68 0.72
26 05 19 16-0538	#14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0503)</small>	
26 05 19 16-0539 LF	2/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.55 0.39
26 05 19 16-0540 LF	3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.65 0.39
26 05 19 16-0541 LF	4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.91 0.39

26 Electrical
26 05 Common Work Results For Electrical
26 05 19 Low-Voltage Electrical Power Conductors And Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0542 LF 5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.34	0.52
26 05 19 16-0543 LF 6/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.03	0.53
26 05 19 16-0544 LF 7/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.27	0.55
26 05 19 16-0545 LF 8/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.83	0.56
26 05 19 16-0546 LF 9/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.20	0.58
26 05 19 16-0547 LF 10/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.84	0.59
26 05 19 16-0548 LF 12/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.43	0.61
26 05 19 16-0549 LF 14/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.13	0.62
26 05 19 16-0550 LF 16/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.62	0.64
26 05 19 16-0551 LF 20/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.70	0.66
26 05 19 16-0552 LF 24/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	11.47	0.68
26 05 19 16-0553 LF 30/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	13.60	0.72
26 05 19 16-0554 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0503)		
26 05 19 16-0555 LF 2/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.81	0.39
26 05 19 16-0556 LF 3/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.01	0.39
26 05 19 16-0557 LF 4/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.21	0.39
26 05 19 16-0558 LF 5/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.85	0.52
26 05 19 16-0559 LF 6/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.50	0.53
26 05 19 16-0560 LF 7/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.16	0.55
26 05 19 16-0561 LF 8/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.87	0.56
26 05 19 16-0562 LF 9/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.37	0.58
26 05 19 16-0563 LF 10/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.25	0.59
26 05 19 16-0564 LF 12/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.28	0.61
26 05 19 16-0565 LF 14/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.25	0.62
26 05 19 16-0566 LF 16/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	10.20	0.64
26 05 19 16-0567 LF 18/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	10.66	0.65
26 05 19 16-0568 LF 20/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	12.33	0.66
26 05 19 16-0569 LF 24/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	14.03	0.68
26 05 19 16-0570 LF 26/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	15.75	0.69
26 05 19 16-0571 LF 28/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	16.29	0.71
26 05 19 16-0572 LF 30/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	16.89	0.72
26 05 19 16-0573 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0503)		
26 05 19 16-0574 LF 2/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.10	0.48
26 05 19 16-0575 LF 3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.27	0.48
26 05 19 16-0576 LF 4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.45	0.48
26 05 19 16-0577 LF 5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.31	0.52
26 05 19 16-0578 LF 6/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.55	0.53
26 05 19 16-0579 LF 7/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.57	0.55
26 05 19 16-0580 LF 10/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.51	0.59
26 05 19 16-0581 LF 12/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.78	0.61
26 05 19 16-0582 LF 16/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	12.53	0.64
26 05 19 16-0583 LF 20/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	18.35	0.66
26 05 19 16-0584 #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0503)		
26 05 19 16-0585 LF 3/c #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	4.33	0.58
26 05 19 16-0586 LF 4/c #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	4.73	0.67
26 05 19 16-0587 LF 5/c #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.55	0.67
26 05 19 16-0588 #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0503)		
26 05 19 16-0589 LF 3/c #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.33	0.67
26 05 19 16-0590 LF 4/c #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.65	0.77
26 05 19 16-0591 LF 5/c #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	9.18	0.96
26 05 19 16-0592 #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0503)		
26 05 19 16-0593 LF 3/c #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	10.16	0.96
26 05 19 16-0594 LF 4/c #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	11.17	1.06
26 05 19 16-0595 LF 5/c #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	13.52	1.16
26 05 19 16-0596 #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0503)		
26 05 19 16-0597 LF 3/c #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	15.02	1.93
26 05 19 16-0598 LF 4/c #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	19.14	2.41
26 05 19 16-0599 LF 5/c #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	23.01	3.19
26 05 19 16-0600 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0481)		
26 05 19 16-0601 #18, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0600)		
26 05 19 16-0602 LF 2/c #18, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.43	0.39
26 05 19 16-0603 LF 3/c #18, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.59	0.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0604 LF 4/c #18, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.92	0.39
26 05 19 16-0605 #16, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0600)</small>		
26 05 19 16-0606 LF 2/c #16, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.53	0.39
26 05 19 16-0607 LF 3/c #16, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.80	0.39
26 05 19 16-0608 LF 4/c #16, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.92	0.39
26 05 19 16-0609 #14, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0600)</small>		
26 05 19 16-0610 LF 2/c #14, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	2.19	0.39
26 05 19 16-0611 LF 3/c #14, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	3.25	0.39
26 05 19 16-0612 LF 4/c #14, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	4.21	0.48
26 05 19 16-0613 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0481)</small>		
26 05 19 16-0614 #18, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0613)</small>		
26 05 19 16-0615 LF 2/c #18, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.10	0.39
26 05 19 16-0616 LF 3/c #18, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.55	0.39
26 05 19 16-0617 LF 4/c #18, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.02	0.39
26 05 19 16-0618 #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0613)</small>		
26 05 19 16-0619 LF 2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.26	0.39
26 05 19 16-0620 LF 3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.72	0.39
26 05 19 16-0621 LF 4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.45	0.39
26 05 19 16-0622 LF 5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.73	0.48
26 05 19 16-0623 #14, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0613)</small>		
26 05 19 16-0624 LF 3/c #14, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.83	0.39
26 05 19 16-0625 LF 4/c #14, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.42	0.39
26 05 19 16-0626 LF 5/c #14, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.84	0.48
26 05 19 16-0627 #12, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0613)</small>		
26 05 19 16-0628 LF 3/c #12, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.39	0.39
26 05 19 16-0629 LF 4/c #12, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.91	0.39
26 05 19 16-0630 LF 5/c #12, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.37	0.48
26 05 19 16-0631 #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0613)</small>		
26 05 19 16-0632 LF 3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.90	0.48
26 05 19 16-0633 LF 4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.36	0.48
26 05 19 16-0634 LF 5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.82	0.48
26 05 19 16-0635 Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0480)</small>		
Note: Includes thermoplastic elastomeric (TPE) insulation.		
26 05 19 16-0636 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0635)</small>		
26 05 19 16-0637 #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0635)</small>		
26 05 19 16-0638 LF 3/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.55	0.39
26 05 19 16-0639 LF 4/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.73	0.39
26 05 19 16-0640 LF 5/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.71	0.48
26 05 19 16-0641 #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0635)</small>		
26 05 19 16-0642 LF 3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.10	0.39
26 05 19 16-0643 LF 4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.44	0.39
26 05 19 16-0644 LF 5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.57	0.48
26 05 19 16-0645 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0635)</small>		
26 05 19 16-0646 LF 3/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.65	0.39
26 05 19 16-0647 LF 4/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.09	0.39
26 05 19 16-0648 LF 5/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.93	0.48
26 05 19 16-0649 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0635)</small>		
26 05 19 16-0650 LF 3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.40	0.48
26 05 19 16-0651 LF 4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.93	0.48
26 05 19 16-0652 LF 5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.22	0.48

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0653			Multi-Conductor Type W Cord <small>(26 05 19 16-0480)</small> Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0654			2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0653)</small>		
26 05 19 16-0655			#8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0654)</small>		
26 05 19 16-0656	LF		3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	4.78	0.58
26 05 19 16-0657	LF		4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	5.14	0.67
26 05 19 16-0658	LF		5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	6.13	0.67
26 05 19 16-0659			#6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0654)</small>		
26 05 19 16-0660	LF		3/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	5.13	0.67
26 05 19 16-0661	LF		4/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	6.12	0.77
26 05 19 16-0662	LF		5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	7.63	0.96
26 05 19 16-0663			#4, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0654)</small>		
26 05 19 16-0664	LF		3/c #4, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	7.09	0.67
26 05 19 16-0665	LF		4/c #4, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	8.38	0.77
26 05 19 16-0666	LF		5/c #4, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	10.80	0.96
26 05 19 16-0667			Cord Grips, Cable Reels, Extension Cords, And Accessories <small>(26 05 19 16-0479)</small>		
26 05 19 16-0668			Cord Grips <small>(26 05 19 16-0667)</small>		
26 05 19 16-0669	EA		Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel.....	60.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.54	
26 05 19 16-0670	EA		Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel.....	60.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.54	
26 05 19 16-0671			Cable Reels <small>(26 05 19 16-0667)</small> Note: Includes handling, mounting, electrical connections and installing cord. See CSI section 26 05 19 16-0479 for cords.		
26 05 19 16-0672	EA		30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....	568.78	48.25
26 05 19 16-0673	EA		50', 10-4, SEOOW, Extension Cord Reel (Reelcraft L 7050 104 X 1).....	1,583.50	48.25
26 05 19 16-0674	EA		50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....	1,182.39	48.25
26 05 19 16-0675			Extension Cords <small>(26 05 19 16-0667)</small>		
26 05 19 16-0676	EA		100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord	122.00	
26 05 19 16-0677	EA		100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord	170.18	
26 05 19 16-0678			Plugs And Connector Bodies <small>(26 05 19 16-0667)</small> Note: Up to 277 volts.		
26 05 19 16-0679			NEMA Twist-Lock Plugs <small>(26 05 19 16-0678)</small>		
26 05 19 16-0680	EA		15 Amp, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C).....	67.30	
26 05 19 16-0681	EA		15 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	68.77	
26 05 19 16-0682	EA		20 Amp, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C).....	62.60	
26 05 19 16-0683	EA		20 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331).....	67.12	
26 05 19 16-0684	EA		20 Amp, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411).....	88.31	
26 05 19 16-0685	EA		20 Amp, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441).....	94.05	
26 05 19 16-0686	EA		20 Amp, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK).....	99.66	
26 05 19 16-0687	EA		30 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK).....	89.16	
26 05 19 16-0688	EA		30 Amp, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK).....	102.96	
26 05 19 16-0689	EA		30 Amp, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761).....	105.65	
26 05 19 16-0690	EA		30 Amp, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK).....	109.07	
26 05 19 16-0691			NEMA Twist-Lock Connector Bodies <small>(26 05 19 16-0678)</small>		
26 05 19 16-0692	EA		15 Amp, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C).....	71.45	
26 05 19 16-0693	EA		15 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C).....	76.64	
26 05 19 16-0694	EA		20 Amp, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C).....	65.71	
26 05 19 16-0695	EA		20 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK).....	89.16	
26 05 19 16-0696	EA		20 Amp, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK).....	104.30	
26 05 19 16-0697	EA		20 Amp, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443).....	111.63	
26 05 19 16-0698	EA		20 Amp, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK).....	136.30	
26 05 19 16-0699	EA		30 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK).....	130.07	
26 05 19 16-0700	EA		30 Amp, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK).....	160.97	
26 05 19 16-0701	EA		30 Amp, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753).....	169.15	
26 05 19 16-0702	EA		30 Amp, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK).....	160.23	
26 05 19 16-0703			Watertight Pin And Sleeve Plug <small>(26 05 19 16-0678)</small>		
26 05 19 16-0704	EA		20 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W).....	200.50	28.95
26 05 19 16-0705	EA		20 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W).....	202.57	28.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0706 EA 20 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W).....	218.62	28.95
26 05 19 16-0707 EA 20 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W).....	219.57	31.84
26 05 19 16-0708 EA 20 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W).....	216.46	31.84
26 05 19 16-0709 EA 20 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W).....	217.39	31.84
26 05 19 16-0710 EA 30 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W).....	304.07	35.61
26 05 19 16-0711 EA 30 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W).....	296.31	35.61
26 05 19 16-0712 EA 30 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W).....	329.63	35.61
26 05 19 16-0713 EA 30 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W).....	324.71	39.09
26 05 19 16-0714 EA 30 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W).....	311.24	39.09
26 05 19 16-0715 EA 30 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W).....	320.51	39.09
26 05 19 16-0716 EA 60 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W).....	412.71	46.32
26 05 19 16-0717 EA 60 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W).....	420.10	46.32
26 05 19 16-0718 EA 60 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W).....	402.58	46.32
26 05 19 16-0719 EA 60 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W).....	458.23	51.53
26 05 19 16-0720 EA 60 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W).....	446.73	51.53
26 05 19 16-0721 EA 60 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W).....	451.70	51.53
26 05 19 16-0722 EA 100 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W).....	565.19	57.90
26 05 19 16-0723 EA 100 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W).....	593.73	57.90
26 05 19 16-0724 EA 100 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W).....	580.37	63.69
26 05 19 16-0725 EA 100 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W).....	570.62	63.69
26 05 19 16-0726 EA 100 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W).....	575.89	63.69
26 05 19 16-0727 Watertight Pin And Sleeve Connector (26 05 19 16-0678)		
26 05 19 16-0728 EA 20 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W).....	212.39	28.95
26 05 19 16-0729 EA 20 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W).....	213.82	28.95
26 05 19 16-0730 EA 20 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W).....	250.81	28.95
26 05 19 16-0731 EA 20 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W).....	249.54	31.84
26 05 19 16-0732 EA 20 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W).....	245.79	31.84
26 05 19 16-0733 EA 20 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W).....	249.18	31.84
26 05 19 16-0734 EA 30 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W).....	311.17	35.61
26 05 19 16-0735 EA 30 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W).....	311.09	35.61
26 05 19 16-0736 EA 30 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W).....	323.85	35.61
26 05 19 16-0737 EA 30 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W).....	321.25	39.09
26 05 19 16-0738 EA 30 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W).....	323.88	39.09
26 05 19 16-0739 EA 30 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W).....	321.11	39.09
26 05 19 16-0740 EA 60 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W).....	485.60	46.32
26 05 19 16-0741 EA 60 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W).....	469.98	46.32
26 05 19 16-0742 EA 60 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W).....	460.67	46.32
26 05 19 16-0743 EA 60 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W).....	501.61	51.53
26 05 19 16-0744 EA 60 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W).....	515.19	51.53
26 05 19 16-0745 EA 60 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W).....	516.19	51.53
26 05 19 16-0746 EA 100 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W).....	645.15	57.90
26 05 19 16-0747 EA 100 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W).....	663.07	57.90
26 05 19 16-0748 EA 100 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W).....	716.73	63.69
26 05 19 16-0749 EA 100 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W).....	692.12	63.69
26 05 19 16-0750 EA 100 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W).....	700.52	63.69
26 05 19 16-0751 Accessories (26 05 19 16-0667)		
26 05 19 16-0752 EA 1/2" Straight Steel Cord Connector.....	40.38	9.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.79	
26 05 19 16-0753 EA 1/2" Straight Nylon Cord Connector.....	25.02	7.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.34	
26 05 19 16-0754 EA 1/2" 90 Degree Steel Cord Connector.....	46.79	12.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	
26 05 19 16-0755 EA 1/2" 90 Degree Nylon Cord Connector.....	30.63	9.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.79	
26 05 19 16-0756 EA 1/2" Straight Steel Cord Connector With Strain Relief Mesh.....	46.27	12.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	
26 05 19 16-0757 EA 1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	76.53	14.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.69	
26 05 19 16-0758 EA 1/2" Straight Nylon Cord Connector With Strain Relief Mesh.....	30.22	9.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.79	
26 05 19 16-0759 EA 1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	48.71	12.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	
26 05 19 16-0760 EA 3/4" Straight Steel Cord Connector.....	41.87	9.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.79	
26 05 19 16-0761 EA 3/4" Straight Nylon Cord Connector.....	25.76	7.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.34	
26 05 19 16-0762 EA 3/4" 90 Degree Steel Cord Connector.....	51.43	12.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	
26 05 19 16-0763 EA 3/4" 90 Degree Nylon Cord Connector.....	32.95	9.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.79	
26 05 19 16-0764 EA 3/4" Straight Steel Cord Connector With Strain Relief Mesh.....	52.65	14.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.69	
26 05 19 16-0765 EA 3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	62.43	16.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.13	
26 05 19 16-0766 EA 3/4" Straight Nylon Cord Connector With Strain Relief Mesh.....	36.61	12.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	
26 05 19 16-0767 EA 3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	44.18	14.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.69	

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0768 EA 1" Straight Steel Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.39 5.79	9.65
26 05 19 16-0769 EA 1" Straight Nylon Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.52 4.34	7.23
26 05 19 16-0770 EA 1" 90 Degree Steel Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.71 7.24	12.06
26 05 19 16-0771 EA 1" 90 Degree Nylon Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.09 5.79	9.65
26 05 19 16-0772 EA 1" Straight Steel Cord Connector With Strain Relief Mesh..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.64 8.69	14.48
26 05 19 16-0773 EA 1" 90 Degree Steel Cord Connector With Strain Relief Mesh..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.03 10.13	16.89
26 05 19 16-0774 EA 1" Straight Nylon Cord Connector With Strain Relief Mesh..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.69 7.24	12.06
26 05 19 16-0775 EA 1" 90 Degree Nylon Cord Connector With Strain Relief Mesh..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.47 8.69	14.48

26 05 23 Control-Voltage Electrical Power Cables (26 05)**26 05 23 00-0001 Cable For HVAC System Controls (26 05 23)****26 05 23 00-0002 Low Voltage Thermostat Cable To 300 Volts (26 05 23 00-0001)**

Note: For surface or conduit installation.

26 05 23 00-0003 MLF #20/2 Conductor, Low Volt Thermostat Cable.....	356.79	112.49
26 05 23 00-0004 MLF #20/3 Conductor, Low Volt Thermostat Cable.....	401.10	118.48
26 05 23 00-0005 MLF #20/4 Conductor, Low Volt Thermostat Cable.....	432.73	125.28
26 05 23 00-0006 MLF #20/5 Conductor, Low Volt Thermostat Cable.....	505.51	130.57
26 05 23 00-0007 MLF #20/6 Conductor, Low Volt Thermostat Cable.....	528.67	136.74
26 05 23 00-0008 MLF #20/7 Conductor, Low Volt Thermostat Cable.....	577.81	142.43
26 05 23 00-0009 MLF #20/8 Conductor, Low Volt Thermostat Cable.....	621.07	148.13
26 05 23 00-0010 MLF #20/9 Conductor, Low Volt Thermostat Cable.....	670.01	154.04
26 05 23 00-0011 MLF #20/10 Conductor, Low Volt Thermostat Cable.....	716.39	158.66
26 05 23 00-0012 MLF #18/2 Conductor, Low Volt Thermostat Cable.....	381.38	112.49
26 05 23 00-0013 MLF #18/3 Conductor, Low Volt Thermostat Cable.....	444.97	118.48
26 05 23 00-0014 MLF #18/4 Conductor, Low Volt Thermostat Cable.....	502.32	125.28
26 05 23 00-0015 MLF #18/5 Conductor, Low Volt Thermostat Cable.....	534.24	130.57
26 05 23 00-0016 MLF #18/6 Conductor, Low Volt Thermostat Cable.....	586.38	136.74
26 05 23 00-0017 MLF #18/7 Conductor, Low Volt Thermostat Cable.....	604.31	142.43
26 05 23 00-0018 MLF #18/8 Conductor, Low Volt Thermostat Cable.....	661.50	148.13
26 05 23 00-0019 MLF #18/9 Conductor, Low Volt Thermostat Cable.....	767.03	154.04
26 05 23 00-0020 MLF #18/10 Conductor, Low Volt Thermostat Cable.....	836.06	158.66

26 05 26 Grounding And Bonding For Electrical Systems (26 05)**26 05 26 00-0001 Conductors, Straps And Conduit Jumpers (26 05 26)****26 05 26 00-0002 Single Conductor (26 05 26 00-0001)****26 05 26 00-0003 Copper Bare Stranded Conductors (26 05 26 00-0002)**

26 05 26 00-0004 MLF 12 AWG Copper Bare Single Stranded Conductor.....	470.37	181.13
26 05 26 00-0005 MLF 10 AWG Copper Bare Single Stranded Conductor.....	614.36	181.13
26 05 26 00-0006 MLF 8 AWG Copper Bare Single Stranded Conductor.....	759.09	218.18
26 05 26 00-0007 MLF 6 AWG Copper Bare Single Stranded Conductor.....	1,029.76	218.18
26 05 26 00-0008 MLF 4 AWG Copper Bare Single Stranded Conductor.....	1,370.16	263.47
26 05 26 00-0009 MLF 2 AWG Copper Bare Single Stranded Conductor.....	2,133.07	263.47
26 05 26 00-0010 MLF 1 AWG Copper Bare Single Stranded Conductor.....	2,463.01	316.99
26 05 26 00-0011 MLF 1/0 AWG Copper Bare Single Stranded Conductor.....	2,887.19	316.99
26 05 26 00-0012 MLF 2/0 AWG Copper Bare Single Stranded Conductor.....	4,026.02	399.31
26 05 26 00-0013 MLF 3/0 AWG Copper Bare Single Stranded Conductor.....	4,953.65	399.31
26 05 26 00-0014 MLF 4/0 AWG Copper Bare Single Stranded Conductor.....	5,268.14	531.05
26 05 26 00-0015 MLF 250 MCM Copper Bare Single Stranded Conductor.....	6,743.19	531.05
26 05 26 00-0016 MLF 300 MCM Copper Bare Single Stranded Conductor.....	6,773.62	613.38
26 05 26 00-0017 MLF 350 MCM Copper Bare Single Stranded Conductor.....	9,093.36	613.38
26 05 26 00-0018 MLF 500 MCM Copper Bare Single Stranded Conductor.....	12,390.49	757.46

26 05 26 00-0019 Copper Insulated Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0020 MLF 12 AWG Copper Insulated Single Stranded Conductor.....	858.37	247.00
26 05 26 00-0021 MLF 10 AWG Copper Insulated Single Stranded Conductor.....	920.37	247.00
26 05 26 00-0022 MLF 8 AWG Copper Insulated Single Stranded Conductor.....	1,174.42	247.00
26 05 26 00-0023 MLF 6 AWG Copper Insulated Single Stranded Conductor.....	1,338.66	428.14
26 05 26 00-0024 MLF 4 AWG Copper Insulated Single Stranded Conductor.....	1,800.14	428.14
26 05 26 00-0025 MLF 2 AWG Copper Insulated Single Stranded Conductor.....	2,529.80	428.14
26 05 26 00-0026 MLF 1 AWG Copper Insulated Single Stranded Conductor.....	3,051.44	749.23
26 05 26 00-0027 MLF 1/0 AWG Copper Insulated Single Stranded Conductor.....	3,716.68	749.23
26 05 26 00-0028 MLF 2/0 AWG Copper Insulated Single Stranded Conductor.....	4,346.66	749.23
26 05 26 00-0029 MLF 3/0 AWG Copper Insulated Single Stranded Conductor.....	5,165.50	749.23
26 05 26 00-0030 MLF 4/0 AWG Copper Insulated Single Stranded Conductor.....	6,081.93	979.77
26 05 26 00-0031 MLF 250 MCM Copper Insulated Single Stranded Conductor.....	7,338.16	979.77
26 05 26 00-0032 MLF 300 MCM Copper Insulated Single Stranded Conductor.....	8,536.05	979.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0033 MLF 350 MCM Copper Insulated Single Stranded Conductor.....	10,019.44	1,523.17
26 05 26 00-0034 MLF 500 MCM Copper Insulated Single Stranded Conductor.....	13,049.08	1,523.17
26 05 26 00-0035 Copper Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0036 MLF 12 AWG Copper Bare Single Solid Conductor.....	470.37	181.13
26 05 26 00-0037 MLF 10 AWG Copper Bare Single Solid Conductor.....	614.36	181.13
26 05 26 00-0038 MLF 8 AWG Copper Bare Single Solid Conductor.....	759.09	218.18
26 05 26 00-0039 MLF 6 AWG Copper Bare Single Solid Conductor.....	1,029.76	218.18
26 05 26 00-0040 MLF 4 AWG Copper Bare Single Solid Conductor.....	1,370.16	263.47
26 05 26 00-0041 MLF 2 AWG Copper Bare Single Solid Conductor.....	2,133.07	263.47
26 05 26 00-0042 MLF 1/0 AWG Copper Bare Single Solid Conductor.....	2,887.19	316.99
26 05 26 00-0043 MLF 4/0 AWG Copper Bare Single Solid Conductor.....	5,268.14	419.90
26 05 26 00-0044 Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)		
26 05 26 00-0045 MLF 8 AWG Aluminum Bare Single Stranded Conductor.....	527.65	218.18
26 05 26 00-0046 MLF 6 AWG Aluminum Bare Single Stranded Conductor.....	576.99	218.18
26 05 26 00-0047 MLF 4 AWG Aluminum Bare Single Stranded Conductor.....	653.26	263.47
26 05 26 00-0048 MLF 2 AWG Aluminum Bare Single Stranded Conductor.....	807.82	263.47
26 05 26 00-0049 MLF 1 AWG Aluminum Bare Single Stranded Conductor.....	922.69	316.99
26 05 26 00-0050 MLF 1/0 AWG Aluminum Bare Single Stranded Conductor.....	1,056.70	316.99
26 05 26 00-0051 MLF 2/0 AWG Aluminum Bare Single Stranded Conductor.....	1,204.31	399.31
26 05 26 00-0052 MLF 3/0 AWG Aluminum Bare Single Stranded Conductor.....	1,380.28	399.31
26 05 26 00-0053 MLF 4/0 AWG Aluminum Bare Single Stranded Conductor.....	1,644.91	531.05
26 05 26 00-0054 MLF 250 MCM Aluminum Bare Single Stranded Conductor.....	1,836.84	531.05
26 05 26 00-0055 MLF 300 MCM Aluminum Bare Single Stranded Conductor.....	2,163.65	613.38
26 05 26 00-0056 MLF 350 MCM Aluminum Bare Single Stranded Conductor.....	2,443.76	613.38
26 05 26 00-0057 MLF 500 MCM Aluminum Bare Single Stranded Conductor.....	2,881.01	757.46
26 05 26 00-0058 Aluminum Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0059 MLF 8 AWG Aluminum Bare Single Solid Conductor.....	527.65	218.18
26 05 26 00-0060 MLF 6 AWG Aluminum Bare Single Solid Conductor.....	576.99	218.18
26 05 26 00-0061 MLF 4 AWG Aluminum Bare Single Solid Conductor.....	653.26	263.47
26 05 26 00-0062 MLF 2 AWG Aluminum Bare Single Solid Conductor.....	807.82	263.47
26 05 26 00-0063 MLF 1 AWG Aluminum Bare Single Solid Conductor.....	889.46	419.90
26 05 26 00-0064 MLF 1/0 AWG Aluminum Bare Single Solid Conductor.....	1,056.70	419.90
26 05 26 00-0065 MLF 2/0 AWG Aluminum Bare Single Solid Conductor.....	1,122.01	399.31
26 05 26 00-0066 MLF 3/0 AWG Aluminum Bare Single Solid Conductor.....	1,214.54	399.31
26 05 26 00-0067 MLF 4/0 AWG Aluminum Bare Single Solid Conductor.....	1,644.91	531.05
26 05 26 00-0068 MLF 250 MCM Aluminum Bare Single Solid Conductor.....	1,836.84	531.05
26 05 26 00-0069 MLF 300 MCM Aluminum Bare Single Solid Conductor.....	2,163.65	613.38
26 05 26 00-0070 MLF 350 MCM Aluminum Bare Single Solid Conductor.....	2,443.76	613.38
26 05 26 00-0071 MLF 500 MCM Aluminum Bare Single Solid Conductor.....	2,881.01	757.46
26 05 26 00-0072 Aluminum Smooth Woven Conductors (26 05 26 00-0002)		
26 05 26 00-0073 LF 10 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	2.12	0.66
26 05 26 00-0074 LF 16 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	2.34	0.73
26 05 26 00-0075 LF 24 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	2.76	0.84
26 05 26 00-0076 LF 26 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	2.78	0.86
26 05 26 00-0077 LF 28 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	2.91	0.90
26 05 26 00-0078 Copper Flexible Braid Connector Jumper Strap (26 05 26 00-0001)		
Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.		
26 05 26 00-0079 EA 100 Amp, Copper Flexible Braid Jumper Strap, 12" Length.....	106.55	24.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	14.48	
26 05 26 00-0080 EA 225 Amp, Copper Flexible Braid Jumper Strap, 12" Length.....	181.80	28.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	17.37	
26 05 26 00-0081 EA 225 Amp, Copper Flexible Braid Jumper Strap, 18" Length.....	231.40	28.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	17.37	
26 05 26 00-0082 EA 225 Amp, Copper Flexible Braid Jumper Strap, 24" Length.....	280.33	28.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	17.37	
26 05 26 00-0083 EA 400 Amp, Copper Flexible Braid Jumper Strap, 12" Length.....	244.30	31.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	21.71	
26 05 26 00-0084 EA 400 Amp, Copper Flexible Braid Jumper Strap, 18" Length.....	315.66	31.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	21.71	
26 05 26 00-0085 EA 400 Amp, Copper Flexible Braid Jumper Strap, 24" Length.....	377.67	31.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	21.71	
26 05 26 00-0086 EA 600 Amp, Copper Flexible Braid Jumper Strap, 12" Length.....	316.80	39.81
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	23.88	
26 05 26 00-0087 EA 800 Amp, Copper Flexible Braid Jumper Strap, 12" Length.....	381.05	48.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	28.95	
26 05 26 00-0088 Bonding Jumper For Metallic Conduit (26 05 26 00-0001)		
26 05 26 00-0089 EA 1/2" To 1" Conductor, Bonding Jumper - Metallic Conduit.....	145.01	53.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	30.16	

26 Electrical**26 05 Common Work Results For Electrical****26 05 26 Grounding And Bonding For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0090 EA 1-1/4" To 2" Conductor, Bonding Jumper - Metallic Conduit.....	178.65	53.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.12	
26 05 26 00-0091 EA 2-1/2" To 4" Conductor, Bonding Jumper - Metallic Conduit.....	259.02	82.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.86	
26 05 26 00-0092 EA 5" To 6" Conductor, Bonding Jumper - Metallic Conduit.....	380.01	82.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.61	
26 05 26 00-0093 Ground Rods <small>(26 05 26)</small>		
26 05 26 00-0094 Copper-Clad Ground Rods <small>(26 05 26 00-0093)</small>		
26 05 26 00-0095 EA 1/2" Diameter x 8' Long Copper-Clad Ground Rods	81.36	72.38
26 05 26 00-0096 EA 5/8" Diameter x 8' Long Copper-Clad Ground Rods	84.69	72.38
26 05 26 00-0097 EA 3/4" Diameter x 8' Long Copper-Clad Ground Rods	98.13	72.38
26 05 26 00-0098 EA 1/2" Diameter x 10' Long Copper-Clad Ground Rods	95.67	72.38
26 05 26 00-0099 EA 5/8" Diameter x 10' Long Copper-Clad Ground Rods	99.83	72.38
26 05 26 00-0100 EA 3/4" Diameter x 10' Long Copper-Clad Ground Rods	116.63	72.38
26 05 26 00-0101 Copper Grounding Shaft <small>(26 05 26 00-0093)</small>		
26 05 26 00-0102 EA 2-1/8" Diameter x 10' Long Copper Grounding Shaft.....	201.52	72.38
26 05 26 00-0103 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft.....	246.53	72.38
26 05 26 00-0104 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft.....	361.20	72.38
26 05 26 00-0105 Ground Access Wells <small>(26 05 26 00-0093)</small>		
26 05 26 00-0106 Precast Ground Access Wells <small>(26 05 26 00-0105)</small>		
26 05 26 00-0107 EA 8" Diameter x 24" Deep Precast Ground Access Well	181.24	
Note: With cast iron grate.		
26 05 26 00-0108 EA 10" Diameter x 24" Deep Precast Ground Access Well	189.33	
Note: With cast iron grate.		
26 05 26 00-0109 EA 12" Diameter x 24" Deep Precast Ground Access Well	504.98	
Note: With cast iron grate.		
26 05 26 00-0110 EA 18" Diameter x 24" Deep Precast Ground Access Well	513.08	
Note: With cast iron grate.		
26 05 26 00-0111 Polyvinyl Chloride (PVC) Ground Access Well <small>(26 05 26 00-0105)</small>		
26 05 26 00-0112 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	422.83	
Note: Schedule 40 with cast iron grated cover.		
26 05 26 00-0113 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	497.30	
Note: Schedule 40 with cast iron grated cover.		
26 05 26 00-0114 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	925.87	
Note: Schedule 40 with cast iron grated cover.		
26 05 26 00-0115 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	404.04	
Note: Schedule 40 with flat steel cover.		
26 05 26 00-0116 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	297.77	
Note: Schedule 40 with flat steel cover.		
26 05 26 00-0117 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	887.80	
Note: Schedule 40 with flat steel cover.		
26 05 26 00-0118 EA 8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well	225.36	
Note: Schedule 40 with flat steel cover.		
26 05 26 00-0119 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well	241.03	
Note: Schedule 40 with flat steel cover.		
26 05 26 00-0120 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well	254.69	
Note: Schedule 40 with flat steel cover.		
26 05 26 00-0121 EA 8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	172.78	
26 05 26 00-0122 EA 10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	256.18	
26 05 26 00-0123 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well	453.49	
Note: Schedule 40 with flat steel cover.		
26 05 26 00-0124 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well	603.24	
Note: Schedule 40 with flat steel cover.		
26 05 26 00-0125 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well	364.45	
Note: Schedule 40 with plastic cover.		
26 05 26 00-0126 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well	530.46	
Note: Schedule 40 with plastic cover.		
26 05 26 00-0127 EA 10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well	562.09	
Note: With cast iron grate, heavy duty.		
26 05 26 00-0128 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well	684.68	
Note: With cast iron grate, heavy duty.		
26 05 26 00-0129 EA 12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well	301.81	
Note: With cast iron grate, heavy duty.		
26 05 26 00-0130 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well	529.09	
Note: With cast iron grate, heavy duty.		
26 05 26 00-0131 EA 12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well	569.70	
Note: With cast iron grate, heavy duty.		
26 05 26 00-0132 Polymer Concrete Ground Access Well <small>(26 05 26 00-0105)</small>		
26 05 26 00-0133 EA 12" x 12" x 12" Polymer Concrete Ground Access Well.....	321.76	
26 05 26 00-0134 EA 12" x 12" x 12" Heavy Duty Polymer Concrete Ground Access Well	351.60	
26 05 26 00-0135 EA 12" x 12" x 18" Polymer Concrete Ground Access Well.....	353.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0136 EA 12" x 12" x 18" Heavy Duty Polymer Concrete Ground Access Well	386.40	
26 05 26 00-0137 EA 12" x 12" x 24" Polymer Concrete Ground Access Well	386.67	
26 05 26 00-0138 EA 12" x 12" x 24" Heavy Duty Polymer Concrete Ground Access Well	422.67	
26 05 26 00-0139 EA 13" x 24" x 18" Polymer Concrete Ground Access Well	510.73	
26 05 26 00-0140 EA 13" x 24" x 18" Heavy Duty Polymer Concrete Ground Access Well	559.61	
26 05 26 00-0141 High Density Polyethylene (HDPE) Ground Access Well <small>(26 05 26 00-0105)</small>		
26 05 26 00-0142 EA 9" Diameter x 10" Deep High Density Polyethylene (HDPE) Ground Access Well	124.92	
Note: With cover.		
26 05 26 00-0143 EA 14" Diameter x 18" Deep High Density Polyethylene (HDPE) Ground Access Well	172.11	
Note: With cover.		
26 05 26 00-0144 Ground Rod Clamps And Fittings <small>(26 05 26)</small>		
26 05 26 00-0145 Bronze Ground Rod Clamp <small>(26 05 26 00-0144)</small>		
26 05 26 00-0146 EA 1/2" Bronze Ground Rod Clamp	19.19	10.90
26 05 26 00-0147 EA 5/8" Bronze Ground Rod Clamp	20.03	10.90
26 05 26 00-0148 EA 3/4" Bronze Ground Rod Clamp	21.22	10.90
26 05 26 00-0149 Bronze Pipe Clamps <small>(26 05 26 00-0144)</small>		
26 05 26 00-0150 EA 1/2" To 1" Bronze Pipe Ground Clamps	25.76	18.14
26 05 26 00-0151 EA 1-1/4" To 2" Bronze Ground Clamps For Pipe	32.57	21.71
26 05 26 00-0152 EA 2-1/2" To 3" Bronze Ground Clamps For Pipe	47.35	25.38
26 05 26 00-0153 EA 2-1/2" To 4" Bronze Ground Clamps For Pipe	58.17	32.61
26 05 26 00-0154 EA 4" To 6" Bronze Ground Clamps For Pipe	88.61	47.09
26 05 26 00-0155 Grounding Fittings <small>(26 05 26 00-0144)</small>		
26 05 26 00-0156 Embedded Fittings <small>(26 05 26 00-0155)</small>		
26 05 26 00-0157 EA Ground Insert With 2 - 3/8 x 16 Holes #2-250 MCM Cable Range, Embedded	129.15	
26 05 26 00-0158 EA Ground Insert With 4 - 3/8 x 16 Holes #2-250 MCM Cable Range, Embedded	136.76	
26 05 26 00-0159 EA Ground Insert With 4 - 3/8 x 16 Holes 250-500 MCM Cable Range, Embedded	150.24	
26 05 26 00-0160 EA #8 - 1 AWG, Copper To Aluminum, Grounding Wire Splice	127.24	
26 05 26 00-0161 EA 1/0 - 3/0 AWG, Copper To Aluminum, Grounding Wire Splice	152.46	
26 05 26 00-0162 EA 4/0 - 300 MCM, Copper To Aluminum, Grounding Wire Splice	178.79	
26 05 26 00-0163 EA 350 MCM And Up, Copper To Aluminum, Grounding Wire Splice	201.39	
26 05 26 00-0164 Ground Rod Receptacle <small>(26 05 26 00-0155)</small>		
26 05 26 00-0165 EA 1/2" Ground Rod Receptacle	278.25	100.36
26 05 26 00-0166 EA 5/8" Ground Rod Receptacle	290.60	103.19
26 05 26 00-0167 EA 3/4" Ground Rod Receptacle	303.24	105.99
26 05 26 00-0168 Ground Kits For Circuit Breaker Panels <small>(26 05 26 00-0155)</small>		
26 05 26 00-0169 EA 14-8 AWG Copper Ground Kit	62.58	24.13
26 05 26 00-0170 EA 12-8 AWG Aluminum Ground Kit	61.09	24.13
26 05 26 00-0171 EA 14-4 AWG Copper Ground Kit	68.97	24.13
26 05 26 00-0172 EA 12-4 AWG Aluminum Ground Kit	70.08	24.13
26 05 26 00-0173 Insulated Grounding Bars <small>(26 05 26 00-0144)</small>		
26 05 26 00-0174 EA Insulated Ground Bar 1/2" x 4" x 10"	257.24	24.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.43	
26 05 26 00-0175 EA Insulated Ground Bar SK 9560 1/2" x 4" x 20"	269.59	24.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.43	
26 05 26 00-0176 Ground Conductor Bonding <small>(26 05 26)</small>		
26 05 26 00-0177 Ground Conductor Bonding <small>(26 05 26 00-0176)</small>		
26 05 26 00-0178 Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld <small>(26 05 26 00-0177)</small>		
26 05 26 00-0179 EA Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	107.46	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0180 EA #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	117.10	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0181 EA 1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	126.75	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0182 EA 250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	184.65	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0183 Tee, Wye Or Cross Cadweld <small>(26 05 26 00-0177)</small>		
26 05 26 00-0184 EA Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross	121.92	
Note: Includes molds, materials and all necessary tools to make connections.		

26 Electrical**26 05 Common Work Results For Electrical****26 05 26 Grounding And Bonding For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0185 EA #4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross Note: Includes molds, materials and all necessary tools to make connections.	141.22	
26 05 26 00-0186 EA 1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross Note: Includes molds, materials and all necessary tools to make connections.	175.01	
26 05 26 00-0187 EA 250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross Note: Includes molds, materials and all necessary tools to make connections.	213.60	
26 05 26 00-0188 Grounding Equipment (26 05 26)		
26 05 26 00-0189 Special Grounding Equipment (26 05 26 00-0188)		
26 05 26 00-0190 Ground Reels And Ground Bus (26 05 26 00-0189)		
26 05 26 00-0191 EA Ground Reel With 50' Of Galvanized Steel Cable.....	585.59	
26 05 26 00-0192 Copper Bars (26 05 26 00-0189)		
26 05 26 00-0193 LF 1/4" x 2" Copper Bar	34.10	
26 05 26 00-0194 Phenolic Insulators (26 05 26 00-0189)		
26 05 26 00-0195 EA 2" x 2" x 1" Long Phenolic Insulators <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.03 5.79	
26 05 26 00-0196 Grounding Studs (26 05 26 00-0189)		
26 05 26 00-0197 EA Ball Grounding Stud..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.30 8.64	
26 05 26 00-0198 Equipment Ground Bar Kits (26 05 26 00-0189)		
26 05 26 00-0199 EA Switch Rating 30 Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.90 5.79	
26 05 26 00-0200 EA Switch Rating 60 Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.38 6.37	
26 05 26 00-0201 EA Switch Rating 100 Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.19 7.24	
26 05 26 00-0202 EA Switch Rating 200 Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.48 8.69	
26 05 26 00-0203 Panelboard Ground Bar Kits (26 05 26 00-0189)		
26 05 26 00-0204 EA Panelboard Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.83 7.24	7.23
26 05 26 00-0205 Circuit Breaker Ground Bar Kits (26 05 26 00-0189)		
26 05 26 00-0206 EA 3 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.08 4.34	4.34
26 05 26 00-0207 EA 4 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.68 4.34	4.34
26 05 26 00-0208 EA 7 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.34 4.34	4.34
26 05 26 00-0209 EA 12 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.45 4.92	4.92
26 05 26 00-0210 EA 20 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.11 5.50	5.50
26 05 26 00-0211 EA 24 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.23 6.08	6.08
26 05 26 00-0212 EA 30 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.18 6.95	6.94
26 05 26 00-0213 EA 54 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.02 8.11	8.11
26 05 26 00-0214 EA 24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.58 6.08	6.08
26 05 26 00-0215 EA 30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.59 6.95	6.94
26 05 26 00-0216 EA 54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.57 8.11	8.11
26 05 29 Hangers And Supports For Electrical Systems (26 05)		
26 05 29 00-0001 Metal Framing Channel And Fittings (26 05 29)		
26 05 29 00-0002 Metal Framing Channel (26 05 29 00-0001) Note: Excludes fasteners and accessories.		
26 05 29 00-0003 14 Gauge Metal Framing Channels (26 05 29 00-0002)		
26 05 29 00-0004 14 Gauge, Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0005 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	16.58	5.29
26 05 29 00-0006 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	18.17	5.29



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 29 00-0007	LF		>2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	8.21	1.99
26 05 29 00-0008				14 Gauge, 304 Stainless Steel Unistrut Channel <small>(26 05 29 00-0003)</small>		
	26 05 29 00-0009	EA		Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	27.39	5.29
	26 05 29 00-0010	EA		Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	30.16	5.29
	26 05 29 00-0011	EA		>1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	39.79	5.29
	26 05 29 00-0012	EA		>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	45.31	5.29
	26 05 29 00-0013	LF		>2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	19.02	1.99
	26 05 29 00-0014	LF		>2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	21.79	1.99
26 05 29 00-0015				14 Gauge, 316 Stainless Steel Unistrut Channel <small>(26 05 29 00-0003)</small>		
	26 05 29 00-0016	EA		Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	39.32	5.29
	26 05 29 00-0017	EA		>1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	63.64	5.29
	26 05 29 00-0018	LF		>2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	30.95	1.99
26 05 29 00-0019				12 Gauge Metal Framing Channels <small>(26 05 29 00-0002)</small>		
26 05 29 00-0020				12 Gauge, Steel Unistrut Channel <small>(26 05 29 00-0019)</small>		
	26 05 29 00-0021	EA		Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	17.61	5.29
	26 05 29 00-0022	EA		Up To 1' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	17.27	5.29
	26 05 29 00-0023	EA		Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	17.04	5.29
	26 05 29 00-0024	EA		>1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	20.23	5.29
	26 05 29 00-0025	EA		>1' To 2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	19.53	5.29
	26 05 29 00-0026	EA		>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	19.08	5.29
	26 05 29 00-0027	LF		>2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	9.24	1.99
	26 05 29 00-0028	LF		>2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	8.90	1.99
	26 05 29 00-0029	LF		>2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	8.67	1.99
26 05 29 00-0030				12 Gauge, 304 Stainless Steel Unistrut Channel <small>(26 05 29 00-0019)</small>		
	26 05 29 00-0031	EA		Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	31.07	5.29
	26 05 29 00-0032	EA		Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	35.84	5.29
	26 05 29 00-0033	EA		>1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	47.14	5.29
	26 05 29 00-0034	EA		>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	56.67	5.29
	26 05 29 00-0035	LF		>2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	22.70	1.99
	26 05 29 00-0036	LF		>2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	27.47	1.99
26 05 29 00-0037				Metal Framing Channel Fittings <small>(26 05 29 00-0001)</small>		
26 05 29 00-0038				Unistrut Channel Closure Strips And Caps <small>(26 05 29 00-0037)</small>		
26 05 29 00-0039				Steel Unistrut Channel Closure Strips And Caps <small>(26 05 29 00-0038)</small>		
	26 05 29 00-0040	LF		Steel Raceway Closure Strip, Unistrut Channel Fittings.....	4.49	0.48
	26 05 29 00-0041	EA		Steel End Cap, Unistrut Channel Fittings.....	11.05	4.84
26 05 29 00-0042				Stainless Steel Unistrut Channel Closure Strips And Caps <small>(26 05 29 00-0038)</small>		
	26 05 29 00-0043	EA		Stainless Steel End Cap For Unistrut Channel.....	16.79	4.84
26 05 29 00-0044				Flat Splice Plate, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0045				Steel Flat Splice Plate, Unistrut Channel Fittings <small>(26 05 29 00-0044)</small>		
	26 05 29 00-0046	EA		2-Hole, 3-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	4.61	
	26 05 29 00-0047	EA		3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	4.58	
	26 05 29 00-0048	EA		4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	5.50	
26 05 29 00-0049				Stainless Steel Flat Splice Plate, Unistrut Channel Fittings <small>(26 05 29 00-0044)</small>		
	26 05 29 00-0050	EA		2-Hole, 3-1/2" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting.....	13.48	
	26 05 29 00-0051	EA		3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting.....	19.95	
	26 05 29 00-0052	EA		4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting.....	25.44	
26 05 29 00-0053				90 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0054				Steel 90 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0053)</small>		
	26 05 29 00-0055	EA		2-Hole, 1-7/8" x 2", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	4.48	
	26 05 29 00-0056	EA		2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	3.81	
	26 05 29 00-0057	EA		3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	6.30	
	26 05 29 00-0058	EA		3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	6.22	
26 05 29 00-0059				Stainless Steel 90 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0053)</small>		
	26 05 29 00-0060	EA		2-Hole, 1-7/8" x 2", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	7.80	
	26 05 29 00-0061	EA		2-Hole, 1-7/8" x 2", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	9.70	

26 Electrical
26 05 Common Work Results For Electrical
26 05 29 Hangers And Supports For Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0062 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	8.25	
26 05 29 00-0063 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	11.64	
26 05 29 00-0064 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	10.66	
26 05 29 00-0065 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	19.51	
26 05 29 00-0066 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	11.20	
26 05 29 00-0067 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	16.15	
26 05 29 00-0068 60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0069 Steel 60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0070 EA 2-Hole, 1-7/8" x 3-3/8", 60 Degree Angle, Steel, Unistrut Channel Fitting.....	8.85	
26 05 29 00-0071 U-Connector, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0072 Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0071)		
26 05 29 00-0073 EA 3-Hole, 1-5/8" x 13/16", U-Connector, Steel, Unistrut Channel Fitting.....	3.37	
26 05 29 00-0074 EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, Steel, Unistrut Channel Fitting.....	3.72	
26 05 29 00-0075 Stainless Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0071)		
26 05 29 00-0076 EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, 304 Stainless Steel, Unistrut Channel Fitting.....	16.04	
26 05 29 00-0077 Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0078 Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0077)		
26 05 29 00-0079 EA 3-Hole, Z-Bracket, Steel, Unistrut Channel Fitting.....	9.07	
26 05 29 00-0080 Stainless Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0077)		
26 05 29 00-0081 EA 3-Hole, Z-Bracket, 304 Stainless Steel, Unistrut Channel Fitting.....	31.01	
26 05 29 00-0082 Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0037)		
Note: Includes hex screw and nut.		
26 05 29 00-0083 Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082)		
Note: Includes hex screw and nut.		
26 05 29 00-0084 EA 1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	3.88	1.44
26 05 29 00-0085 EA 3/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	3.89	1.44
26 05 29 00-0086 EA 1" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	3.97	1.44
26 05 29 00-0087 EA 1-1/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	5.04	1.94
26 05 29 00-0088 EA 1-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	5.44	1.94
26 05 29 00-0089 EA 2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	5.48	1.94
26 05 29 00-0090 EA 2-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.75	2.42
26 05 29 00-0091 EA 3" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.10	2.42
26 05 29 00-0092 EA 3-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.44	2.42
26 05 29 00-0093 EA 4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.56	2.42
26 05 29 00-0094 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082)		
Note: Includes hex screw and nut.		
26 05 29 00-0095 EA 1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.38	1.44
26 05 29 00-0096 EA 3/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.10	1.44
26 05 29 00-0097 EA 1" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.82	1.44
26 05 29 00-0098 EA 1-1/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.73	1.94
26 05 29 00-0099 EA 1-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.74	1.94
26 05 29 00-0100 EA 2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	12.27	1.94
26 05 29 00-0101 EA 2-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	14.75	2.42
26 05 29 00-0102 EA 3" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	16.54	2.42
26 05 29 00-0103 EA 3-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	17.31	2.42
26 05 29 00-0104 EA 4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	20.14	2.42
26 05 29 00-0105 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082)		
Note: Includes hex screw and nut.		
26 05 29 00-0106 EA 1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.82	1.44
26 05 29 00-0107 EA 3/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.84	1.44
26 05 29 00-0108 EA 1" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.13	1.44
26 05 29 00-0109 EA 1-1/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.87	1.94
26 05 29 00-0110 EA 1-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.39	1.94
26 05 29 00-0111 EA 2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.56	1.94
26 05 29 00-0112 EA 2-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	16.11	2.42
26 05 29 00-0113 EA 3" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	17.02	2.42
26 05 29 00-0114 EA 3-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	23.49	2.42
26 05 29 00-0115 EA 4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	27.44	2.42



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0116				Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0117				Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0116)		
26 05 29 00-0118	EA			Set Screw Beam Clamp, Steel Unistrut Channel Fitting	27.94	8.82
26 05 29 00-0119	EA			"C" Beam Clamp Use With 1/2" Rod, Steel Unistrut Channel Fittings	20.02	8.82
26 05 29 00-0120	EA			"U" Bolt Beam Clamp, Steel Unistrut Channel Fitting	27.14	8.82
26 05 29 00-0121				304 Stainless Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0116)		
26 05 29 00-0122	EA			"U" Bolt Beam Clamp, 304 Stainless Steel Unistrut Channel Fitting	39.05	8.82
26 05 29 00-0123				Square Washers For Unistrut Channel (26 05 29 00-0037)		
26 05 29 00-0124				Steel Square Washers For Unistrut Channel (26 05 29 00-0123)		
26 05 29 00-0125	EA			1/2" Bolt Size, Steel, Square Washer For Unistrut Channel	3.29	
26 05 29 00-0126				Stainless Steel Square Washers For Unistrut Channel (26 05 29 00-0123)		
26 05 29 00-0127	EA			1/2" Bolt Size, 304 Stainless Steel, Square Washer For Unistrut Channel	3.92	
26 05 29 00-0128	EA			1/2" Bolt Size, 316 Stainless Steel, Square Washer For Unistrut Channel	4.91	
26 05 29 00-0129				Strut Braces, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0130	EA			16" Diagonal Steel Bar Brace For Unistrut Channel	24.24	
26 05 29 00-0131				Trolley Hangers, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0132	EA			Steel Trolley Track Hanger For Unistrut Channel	30.27	
26 05 29 00-0133				Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0037)		
				Note: Includes hex bolt.		
26 05 29 00-0134				Steel Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0133)		
				Note: Includes hex bolt.		
26 05 29 00-0135	EA			1/4-20, Steel Lock Nut With Spring For Unistrut Channel	6.21	
26 05 29 00-0136	EA			3/8-16, Steel Lock Nut With Spring For Unistrut Channel	6.69	
26 05 29 00-0137	EA			1/2-13, Steel Lock Nut With Spring For Unistrut Channel	7.05	
26 05 29 00-0138	EA			5/8-11, Steel Lock Nut With Spring For Unistrut Channel	9.01	
26 05 29 00-0139				Stainless Steel Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0133)		
				Note: Includes hex bolt.		
26 05 29 00-0140	EA			1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	11.41	
26 05 29 00-0141	EA			3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	12.08	
26 05 29 00-0142	EA			1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	16.70	
26 05 29 00-0143	EA			5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	27.90	
26 05 29 00-0144				Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0037)		
				Note: Includes hex bolt.		
26 05 29 00-0145				Steel Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0144)		
				Note: Includes hex bolt.		
26 05 29 00-0146	EA			1/4-20, Steel Lock Nut Without Spring For Unistrut Channel	6.22	
26 05 29 00-0147	EA			3/8-16, Steel Lock Nut Without Spring For Unistrut Channel	6.76	
26 05 29 00-0148	EA			1/2-13, Steel Lock Nut Without Spring For Unistrut Channel	7.08	
26 05 29 00-0149	EA			5/8-11, Steel Lock Nut Without Spring For Unistrut Channel	9.57	
26 05 29 00-0150				Stainless Steel Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0144)		
				Note: Includes hex bolt.		
26 05 29 00-0151	EA			1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	8.44	
26 05 29 00-0152	EA			3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	9.98	
26 05 29 00-0153	EA			1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	10.80	
26 05 29 00-0154	EA			5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	27.20	
26 05 29 00-0155				Mounting Assemblies (26 05 29)		
26 05 29 00-0156				Galvanized Steel Mounting Assemblies (26 05 29 00-0155)		
26 05 29 00-0157				Galvanized Steel Back Plate (26 05 29 00-0156)		
26 05 29 00-0158	EA			1/4" x 4' x 4', Galvanized Steel Back Plate, Painted	378.57	57.90
26 05 29 00-0159	EA			3/8" x 14" x 16", Galvanized Steel Back Plate, Painted	94.31	19.30
26 05 29 00-0160	EA			3/16" x 30" x 48", Galvanized Steel Back Plate, Painted	238.68	48.25
26 05 29 00-0161				Aluminum Mounting Assemblies (26 05 29 00-0155)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0162			Aluminum Back Plate <small>(26 05 29 00-0161)</small>		
26 05 29 00-0163	EA		3/16" x 2' x 2' Aluminum Back Plate.....	271.65	72.38
26 05 29 00-0164	EA		3/16" x 4' x 4' Aluminum Back Plate.....	711.92	72.38
26 05 29 00-0165			Supports <small>(26 05 29)</small>		
26 05 29 00-0166			One Hole Steel Conduit Straps <small>(26 05 29 00-0165)</small>		
26 05 29 00-0167	EA		1/2", One Hole Steel Conduit Strap 3.45		
			<i>For Work In Restricted Working Space, Add</i>	0.93	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.16	
			<i>For >100 To 250, Deduct</i>	-0.33	
			<i>For >250 To 500, Deduct</i>	-0.65	
			<i>For >500, Deduct</i>	-0.96	
26 05 29 00-0168	EA		3/4", One Hole Steel Conduit Strap 3.49		
			<i>For Work In Restricted Working Space, Add</i>	0.93	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.16	
			<i>For >100 To 250, Deduct</i>	-0.33	
			<i>For >250 To 500, Deduct</i>	-0.65	
			<i>For >500, Deduct</i>	-0.97	
26 05 29 00-0169	EA		1", One Hole Steel Conduit Strap 3.70		
			<i>For Work In Restricted Working Space, Add</i>	0.93	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.66	
			<i>For >500, Deduct</i>	-0.99	
26 05 29 00-0170	EA		1-1/4", One Hole Steel Conduit Strap 3.86		
			<i>For Work In Restricted Working Space, Add</i>	0.93	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.68	
			<i>For >500, Deduct</i>	-1.00	
26 05 29 00-0171	EA		1-1/2", One Hole Steel Conduit Strap 3.97		
			<i>For Work In Restricted Working Space, Add</i>	0.93	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.18	
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.68	
			<i>For >500, Deduct</i>	-1.02	
26 05 29 00-0172	EA		2", One Hole Steel Conduit Strap 4.62		
			<i>For Work In Restricted Working Space, Add</i>	0.93	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.39	
			<i>For >250 To 500, Deduct</i>	-0.73	
			<i>For >500, Deduct</i>	-1.08	
26 05 29 00-0173	EA		2-1/2", One Hole Steel Conduit Strap 5.28		
			<i>For Work In Restricted Working Space, Add</i>	0.93	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100 To 250, Deduct</i>	-0.42	
			<i>For >250 To 500, Deduct</i>	-0.78	
			<i>For >500, Deduct</i>	-1.15	
26 05 29 00-0174	EA		3", One Hole Steel Conduit Strap 5.50		
			<i>For Work In Restricted Working Space, Add</i>	0.93	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.80	
			<i>For >500, Deduct</i>	-1.17	
26 05 29 00-0175	EA		3-1/2", One Hole Steel Conduit Strap 6.59		
			<i>For Work In Restricted Working Space, Add</i>	0.93	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.24	
			<i>For >100 To 250, Deduct</i>	-0.48	
			<i>For >250 To 500, Deduct</i>	-0.88	
			<i>For >500, Deduct</i>	-1.28	
26 05 29 00-0176	EA		4", One Hole Steel Conduit Strap 7.46		
			<i>For Work In Restricted Working Space, Add</i>	0.93	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.26	
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-0.95	
			<i>For >500, Deduct</i>	-1.36	
26 05 29 00-0177			One Hole Iron Conduit Straps <small>(26 05 29 00-0165)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0178 EA 1/2", One Hole Iron Conduit Strap	3.55	
For Work In Restricted Working Space, Add	0.93	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.33	
For >250 To 500, Deduct	-0.65	
For >500, Deduct	-0.97	
26 05 29 00-0179 EA 3/4", One Hole Iron Conduit Strap	3.66	
For Work In Restricted Working Space, Add	0.93	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.66	
For >500, Deduct	-0.98	
26 05 29 00-0180 EA 1", One Hole Iron Conduit Strap	3.84	
For Work In Restricted Working Space, Add	0.93	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.67	
For >500, Deduct	-1.00	
26 05 29 00-0181 EA 1-1/4", One Hole Iron Conduit Strap	4.30	
For Work In Restricted Working Space, Add	0.93	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.71	
For >500, Deduct	-1.05	
26 05 29 00-0182 EA 1-1/2", One Hole Iron Conduit Strap	4.48	
For Work In Restricted Working Space, Add	0.93	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-0.19	
For >100 To 250, Deduct	-0.38	
For >250 To 500, Deduct	-0.72	
For >500, Deduct	-1.07	
26 05 29 00-0183 EA 2", One Hole Iron Conduit Strap	5.63	
For Work In Restricted Working Space, Add	0.93	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.81	
For >500, Deduct	-1.18	
26 05 29 00-0184 EA 2-1/2", One Hole Iron Conduit Strap	8.10	
For Work In Restricted Working Space, Add	0.93	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-0.28	
For >100 To 250, Deduct	-0.56	
For >250 To 500, Deduct	-0.99	
For >500, Deduct	-1.43	
26 05 29 00-0185 EA 3", One Hole Iron Conduit Strap	10.15	
For Work In Restricted Working Space, Add	0.93	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-0.33	
For >100 To 250, Deduct	-0.66	
For >250 To 500, Deduct	-1.15	
For >500, Deduct	-1.63	
26 05 29 00-0186 EA 3-1/2", One Hole Iron Conduit Strap	13.16	
For Work In Restricted Working Space, Add	0.93	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-0.41	
For >100 To 250, Deduct	-0.81	
For >250 To 500, Deduct	-1.37	
For >500, Deduct	-1.93	
26 05 29 00-0187 EA 4", One Hole Iron Conduit Strap	25.21	
For Work In Restricted Working Space, Add	0.93	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-0.71	
For >100 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-2.28	
For >500, Deduct	-3.14	
26 05 29 00-0188 EA 5", One Hole Iron Conduit Strap	31.68	
For Work In Restricted Working Space, Add	0.93	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-0.87	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.76	
For >500, Deduct	-3.79	

26 05 29 00-0189 Two Hole Steel Conduit Straps (26 05 29 00-0165)

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0190	EA	1/2"	Two Hole Steel Conduit Strap .....3.94		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.07	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.73	
			<i>For >500, Deduct</i>	-1.09	
26 05 29 00-0191	EA	3/4"	Two Hole Steel Conduit Strap .....4.01		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.07	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.74	
			<i>For >500, Deduct</i>	-1.10	
26 05 29 00-0192	EA	1"	Two Hole Steel Conduit Strap .....4.05		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.07	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.74	
			<i>For >500, Deduct</i>	-1.10	
26 05 29 00-0193	EA	1-1/4"	Two Hole Steel Conduit Strap .....4.10		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.07	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.74	
			<i>For >500, Deduct</i>	-1.11	
26 05 29 00-0194	EA	1-1/2"	Two Hole Steel Conduit Strap .....4.13		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.07	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.74	
			<i>For >500, Deduct</i>	-1.11	
26 05 29 00-0195	EA	2"	Two Hole Steel Conduit Strap .....4.22		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.07	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.39	
			<i>For >250 To 500, Deduct</i>	-0.75	
			<i>For >500, Deduct</i>	-1.12	
26 05 29 00-0196	EA	2-1/2"	Two Hole Steel Conduit Strap .....4.72		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.07	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.79	
			<i>For >500, Deduct</i>	-1.17	
26 05 29 00-0197	EA	3"	Two Hole Steel Conduit Strap .....4.83		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.07	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100 To 250, Deduct</i>	-0.42	
			<i>For >250 To 500, Deduct</i>	-0.80	
			<i>For >500, Deduct</i>	-1.18	
26 05 29 00-0198	EA	3-1/2"	Two Hole Steel Conduit Strap .....5.22		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.07	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.83	
			<i>For >500, Deduct</i>	-1.22	
26 05 29 00-0199	EA	4"	Two Hole Steel Conduit Strap .....5.48		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.07	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.85	
			<i>For >500, Deduct</i>	-1.24	
26 05 29 00-0200	EA	5"	Two Hole Steel Conduit Strap .....5.84		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.07	
			<i>For >50 To 100, Deduct</i>	-0.23	
			<i>For >100 To 250, Deduct</i>	-0.47	
			<i>For >250 To 500, Deduct</i>	-0.87	
			<i>For >500, Deduct</i>	-1.28	

26 05 29 00-0201 Clamp Back Spacers (26 05 29 00-0165)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0202 EA 1/2" Conduit, Clamp Back Spacer.....	3.04	
For Work In Restricted Working Space, Add	0.72	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.70	
For >50 To 100, Deduct	-0.14	
For >100 To 250, Deduct	-0.27	
For >250 To 500, Deduct	-0.53	
For >500, Deduct	-0.79	
26 05 29 00-0203 EA 3/4" Conduit, Clamp Back Spacer.....	3.25	
For Work In Restricted Working Space, Add	0.72	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.70	
For >50 To 100, Deduct	-0.14	
For >100 To 250, Deduct	-0.28	
For >250 To 500, Deduct	-0.55	
For >500, Deduct	-0.81	
26 05 29 00-0204 EA 1" Conduit, Clamp Back Spacer.....	3.45	
For Work In Restricted Working Space, Add	0.72	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.70	
For >50 To 100, Deduct	-0.15	
For >100 To 250, Deduct	-0.29	
For >250 To 500, Deduct	-0.56	
For >500, Deduct	-0.83	
26 05 29 00-0205 EA 1-1/4" Conduit, Clamp Back Spacer.....	4.22	
For Work In Restricted Working Space, Add	0.72	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.70	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.33	
For >250 To 500, Deduct	-0.62	
For >500, Deduct	-0.90	
26 05 29 00-0206 EA 1-1/2" Conduit, Clamp Back Spacer.....	4.84	
For Work In Restricted Working Space, Add	0.72	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.70	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.66	
For >500, Deduct	-0.97	
26 05 29 00-0207 EA 2" Conduit, Clamp Back Spacer.....	5.49	
For Work In Restricted Working Space, Add	0.72	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.70	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.71	
For >500, Deduct	-1.03	
26 05 29 00-0208 EA 2-1/2" Conduit, Clamp Back Spacer.....	8.14	
For Work In Restricted Working Space, Add	0.72	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.70	
For >50 To 100, Deduct	-0.26	
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-0.91	
For >500, Deduct	-1.30	
26 05 29 00-0209 EA 3" Conduit, Clamp Back Spacer.....	11.30	
For Work In Restricted Working Space, Add	0.72	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.70	
For >50 To 100, Deduct	-0.34	
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.15	
For >500, Deduct	-1.61	
26 05 29 00-0210 EA 3-1/2" Conduit, Clamp Back Spacer.....	14.37	
For Work In Restricted Working Space, Add	0.72	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.70	
For >50 To 100, Deduct	-0.42	
For >100 To 250, Deduct	-0.84	
For >250 To 500, Deduct	-1.38	
For >500, Deduct	-1.92	
26 05 29 00-0211 EA 4" Conduit, Clamp Back Spacer.....	28.78	
For Work In Restricted Working Space, Add	0.72	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.70	
For >50 To 100, Deduct	-0.78	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-2.46	
For >500, Deduct	-3.36	
26 05 29 00-0212 EA 5" Conduit, Clamp Back Spacer.....	53.12	
For Work In Restricted Working Space, Add	0.72	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.70	
For >50 To 100, Deduct	-1.39	
For >100 To 250, Deduct	-2.78	
For >250 To 500, Deduct	-4.29	
For >500, Deduct	-5.79	
26 05 29 00-0213 Conduit Clips (26 05 29 00-0165)		
Note: Push in or clip.		
26 05 29 00-0214 EA 1/2" Conduit Clip.....	3.73	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.67	
For >500, Deduct	-0.99	

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0215	EA		3/4" Conduit Clip.....	3.73	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.67	
			<i>For >500, Deduct</i>	-0.99	
26 05 29 00-0216	EA		1" Conduit Clip.....	3.68	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.66	
			<i>For >500, Deduct</i>	-0.99	
26 05 29 00-0217	EA		1-1/4" Conduit Clip.....	3.80	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.67	
			<i>For >500, Deduct</i>	-1.00	
26 05 29 00-0218			Bolt And Nut Conduit Clips <small>(26 05 29 00-0165)</small>		
26 05 29 00-0219	EA		3/4" Bolt And Nut Conduit Clip (Minerallac 1B).....	4.64	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.07	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.83	
			<i>For >500, Deduct</i>	-1.24	
26 05 29 00-0220	EA		1" Bolt And Nut Conduit Clip (Minerallac 2B).....	4.76	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.07	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.84	
			<i>For >500, Deduct</i>	-1.25	
26 05 29 00-0221	EA		1-1/4" Bolt And Nut Conduit Clip (Minerallac 2-1/2B).....	5.07	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.13	
			<i>For >50 To 100, Deduct</i>	-0.23	
			<i>For >100 To 250, Deduct</i>	-0.46	
			<i>For >250 To 500, Deduct</i>	-0.89	
			<i>For >500, Deduct</i>	-1.33	
26 05 29 00-0222	EA		1-1/2" Bolt And Nut Conduit Clip (Minerallac 3B).....	5.14	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.13	
			<i>For >50 To 100, Deduct</i>	-0.23	
			<i>For >100 To 250, Deduct</i>	-0.46	
			<i>For >250 To 500, Deduct</i>	-0.90	
			<i>For >500, Deduct</i>	-1.33	
26 05 29 00-0223	EA		2" Bolt And Nut Conduit Clip (Minerallac 5B).....	5.62	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.13	
			<i>For >50 To 100, Deduct</i>	-0.24	
			<i>For >100 To 250, Deduct</i>	-0.49	
			<i>For >250 To 500, Deduct</i>	-0.93	
			<i>For >500, Deduct</i>	-1.38	
26 05 29 00-0224	EA		2-1/2" Bolt And Nut Conduit Clip (Minerallac 6B).....	6.06	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.19	
			<i>For >50 To 100, Deduct</i>	-0.26	
			<i>For >100 To 250, Deduct</i>	-0.52	
			<i>For >250 To 500, Deduct</i>	-1.00	
			<i>For >500, Deduct</i>	-1.47	
26 05 29 00-0225	EA		3" Bolt And Nut Conduit Clip (Minerallac 7B).....	6.48	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.19	
			<i>For >50 To 100, Deduct</i>	-0.27	
			<i>For >100 To 250, Deduct</i>	-0.54	
			<i>For >250 To 500, Deduct</i>	-1.03	
			<i>For >500, Deduct</i>	-1.52	
26 05 29 00-0226	EA		4" Bolt And Nut Conduit Clip (Minerallac 9B).....	10.94	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.31	
			<i>For >50 To 100, Deduct</i>	-0.39	
			<i>For >100 To 250, Deduct</i>	-0.79	
			<i>For >250 To 500, Deduct</i>	-1.42	
			<i>For >500, Deduct</i>	-2.06	
26 05 29 00-0227			Conduit Hanger From Flange, Wire Or Rod <small>(26 05 29 00-0165)</small>		
			Note: Bat wing.		
26 05 29 00-0228	EA		1/2", Conduit Hanger From Flange, Wire Or Rod.....	2.71	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.68	
			<i>For >50 To 100, Deduct</i>	-0.13	
			<i>For >100 To 250, Deduct</i>	-0.25	
			<i>For >250 To 500, Deduct</i>	-0.49	
			<i>For >500, Deduct</i>	-0.73	
26 05 29 00-0229	EA		3/4", Conduit Hanger From Flange, Wire Or Rod.....	2.75	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.68	
			<i>For >50 To 100, Deduct</i>	-0.13	
			<i>For >100 To 250, Deduct</i>	-0.25	
			<i>For >250 To 500, Deduct</i>	-0.50	
			<i>For >500, Deduct</i>	-0.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0230 EA 1", Conduit Hanger From Flange, Wire Or Rod 2.84 <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	0.68 -0.13 -0.26 -0.50 -0.75	
26 05 29 00-0231 EA 1-1/4", Conduit Hanger From Flange, Wire Or Rod 3.08 <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	0.68 -0.13 -0.27 -0.52 -0.77	
26 05 29 00-0232 Beam Flange Clamps <small>(26 05 29 00-0165)</small> Note: For threaded rod, nut not required.		
26 05 29 00-0233 EA 1/8" To 1/4" Flange Thickness, Beam Clamp (Caddy 6TA24) 3.74 <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	-0.15 -0.31 -0.58 -0.86	
26 05 29 00-0234 EA 5/16" To 1/2" Flange Thickness, Beam Clamp (Caddy 6TA58) 3.68 <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	-0.15 -0.30 -0.58 -0.85	
26 05 29 00-0235 EA 9/16" To 3/4" Flange Thickness, Beam Clamp (Caddy 6TA912) 4.05 <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	-0.16 -0.32 -0.61 -0.89	
26 05 29 00-0236 T-Bar Support Clips <small>(26 05 29 00-0165)</small>		
26 05 29 00-0237 EA 9/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS95) 6.44 <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	-0.28 -0.56 -1.09 -1.61	
26 05 29 00-0238 EA 15/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS) 6.16 <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	-0.27 -0.55 -1.07 -1.58	
26 05 29 00-0239 EA 15/16" Grid Size, Twist On T-Bar Support Clip (Caddy 4G16) 2.19 <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	-0.08 -0.17 -0.31 -0.46	
26 05 29 00-0240 EA 24" Long Snap On T-Bar Electrical Box Hanger (Caddy 512) 16.16 <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	-0.45 -0.90 -1.45 -2.00	
26 05 29 00-0241 Switch And Outlet Box Type Supports <small>(26 05 29 00-0165)</small>		
26 05 29 00-0242 EA 1/4" To 3/4" Drywall Thickness, Adjustable Switch And Outlet Box Support (Caddy MFS) 4.36 <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	-0.16 -0.31 -0.57 -0.82	
26 05 29 00-0243 EA 1/2" Drywall Thickness, Riveted Switch And Outlet Box Support (Caddy MF500) 3.76 <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	-0.14 -0.28 -0.52 -0.76	
26 05 29 00-0244 EA Flush, Riveted Switch And Outlet Box Support (Caddy MFO) 4.27 <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	-0.16 -0.31 -0.56 -0.81	
26 05 29 00-0245 EA Snap On, Switch And Outlet Box Support (Caddy MSF) 2.91 <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	-0.12 -0.24 -0.46 -0.68	
26 05 29 00-0246 EA 1/4-20 Thread Impression, Switch And Outlet Box Support (Caddy MFI) 3.02 <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	-0.12 -0.25 -0.47 -0.69	

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0247 Lighting Fixture Hanger <small>(26 05 29 00-0165)</small>		
Note: For existing or owner furnished fixtures.		
26 05 29 00-0248 EA Lay-In/Troffer, Straight Lip Type Fixture Support Clip (Caddy 515)	4.44	
For >50 To 100, Deduct	-0.21	
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.82	
For >500, Deduct	-1.22	
26 05 29 00-0249 PR Support Bars For Recessed "High Hat" Light Fixtures (Caddy 517)	13.32	
For >50 To 100, Deduct	-0.43	
For >100 To 250, Deduct	-0.86	
For >250 To 500, Deduct	-1.48	
For >500, Deduct	-2.10	
26 05 29 00-0250 PR Support Bars For Recessed "Lightolier" Light Fixtures (Caddy 520).....	17.99	
For >50 To 100, Deduct	-0.55	
For >100 To 250, Deduct	-1.09	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.57	
26 05 29 00-0251 Rigid Steel Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0165)</small>		
26 05 29 00-0252 EA 1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	3.88	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.65	
For >500, Deduct	-0.97	
For Work In Restricted Working Space, Add	0.87	
26 05 29 00-0253 EA 3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	3.89	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.65	
For >500, Deduct	-0.97	
For Work In Restricted Working Space, Add	0.87	
26 05 29 00-0254 EA 1" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	3.97	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.66	
For >500, Deduct	-0.98	
For Work In Restricted Working Space, Add	0.87	
26 05 29 00-0255 EA 1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	5.04	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.45	
For >250 To 500, Deduct	-0.86	
For >500, Deduct	-1.28	
For Work In Restricted Working Space, Add	1.16	
26 05 29 00-0256 EA 1-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	5.44	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-0.89	
For >500, Deduct	-1.32	
For Work In Restricted Working Space, Add	1.16	
26 05 29 00-0257 EA 2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	5.48	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-0.89	
For >500, Deduct	-1.32	
For Work In Restricted Working Space, Add	1.16	
26 05 29 00-0258 EA 2-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	6.74	
For >50 To 100, Deduct	-0.29	
For >100 To 250, Deduct	-0.58	
For >250 To 500, Deduct	-1.11	
For >500, Deduct	-1.64	
For Work In Restricted Working Space, Add	1.45	
26 05 29 00-0259 EA 3" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	7.09	
For >50 To 100, Deduct	-0.30	
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-1.14	
For >500, Deduct	-1.68	
For Work In Restricted Working Space, Add	1.45	
26 05 29 00-0260 EA 3-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	7.43	
For >50 To 100, Deduct	-0.31	
For >100 To 250, Deduct	-0.61	
For >250 To 500, Deduct	-1.16	
For >500, Deduct	-1.71	
For Work In Restricted Working Space, Add	1.45	
26 05 29 00-0261 EA 4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	7.55	
For >50 To 100, Deduct	-0.31	
For >100 To 250, Deduct	-0.62	
For >250 To 500, Deduct	-1.17	
For >500, Deduct	-1.72	
For Work In Restricted Working Space, Add	1.45	
26 05 29 00-0262 Electrical Metallic Tubing (EMT) Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0165)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0263 EA 1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	4.14	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.67	
<i>For >500, Deduct</i>	-0.99	
<i>For Work In Restricted Working Space, Add</i>	0.87	
26 05 29 00-0264 EA 3/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	4.11	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.67	
<i>For >500, Deduct</i>	-0.99	
<i>For Work In Restricted Working Space, Add</i>	0.87	
26 05 29 00-0265 EA 1" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	4.07	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.67	
<i>For >500, Deduct</i>	-0.99	
<i>For Work In Restricted Working Space, Add</i>	0.87	
26 05 29 00-0266 EA 1-1/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	5.36	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.46	
<i>For >250 To 500, Deduct</i>	-0.88	
<i>For >500, Deduct</i>	-1.31	
<i>For Work In Restricted Working Space, Add</i>	1.16	
26 05 29 00-0267 EA 1-1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	6.05	
<i>For >50 To 100, Deduct</i>	-0.25	
<i>For >100 To 250, Deduct</i>	-0.50	
<i>For >250 To 500, Deduct</i>	-0.94	
<i>For >500, Deduct</i>	-1.38	
<i>For Work In Restricted Working Space, Add</i>	1.16	
26 05 29 00-0268 EA 2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	6.09	
<i>For >50 To 100, Deduct</i>	-0.25	
<i>For >100 To 250, Deduct</i>	-0.50	
<i>For >250 To 500, Deduct</i>	-0.94	
<i>For >500, Deduct</i>	-1.38	
<i>For Work In Restricted Working Space, Add</i>	1.16	
26 05 29 00-0269 "J" Type Conduit Hangers <small>(26 05 29 00-0165)</small>		
26 05 29 00-0270 EA 1/2", "J" Type Conduit Hanger (Unistrut J1205).....	16.54	
<i>For >50 To 100, Deduct</i>	-0.58	
<i>For >100 To 250, Deduct</i>	-1.16	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-3.00	
<i>For Work In Restricted Working Space, Add</i>	2.03	
26 05 29 00-0271 EA 3/4", "J" Type Conduit Hanger (Unistrut J1207).....	16.71	
<i>For >50 To 100, Deduct</i>	-0.59	
<i>For >100 To 250, Deduct</i>	-1.17	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-3.02	
<i>For Work In Restricted Working Space, Add</i>	2.03	
26 05 29 00-0272 EA 1", "J" Type Conduit Hanger (Unistrut J1210).....	17.84	
<i>For >50 To 100, Deduct</i>	-0.64	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-3.33	
<i>For Work In Restricted Working Space, Add</i>	2.32	
26 05 29 00-0273 EA 1-1/4", "J" Type Conduit Hanger (Unistrut J1212).....	18.03	
<i>For >50 To 100, Deduct</i>	-0.64	
<i>For >100 To 250, Deduct</i>	-1.29	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-3.35	
<i>For Work In Restricted Working Space, Add</i>	2.32	
26 05 29 00-0274 EA 1-1/2", "J" Type Conduit Hanger (Unistrut J1215).....	19.12	
<i>For >50 To 100, Deduct</i>	-0.70	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-2.52	
<i>For >500, Deduct</i>	-3.65	
<i>For Work In Restricted Working Space, Add</i>	2.61	
26 05 29 00-0275 EA 2", "J" Type Conduit Hanger (Unistrut J1220).....	19.82	
<i>For >50 To 100, Deduct</i>	-0.71	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.72	
<i>For Work In Restricted Working Space, Add</i>	2.61	
26 05 29 00-0276 EA 2-1/2", "J" Type Conduit Hanger (Unistrut J1225).....	30.72	
<i>For >50 To 100, Deduct</i>	-1.01	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-3.51	
<i>For >500, Deduct</i>	-5.00	
<i>For Work In Restricted Working Space, Add</i>	2.90	

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0277	EA	3"	"J" Type Conduit Hanger (Unistrut J1230).....	32.73	
			<i>For >50 To 100, Deduct</i>	-1.08	
			<i>For >100 To 250, Deduct</i>	-2.17	
			<i>For >250 To 500, Deduct</i>	-3.78	
			<i>For >500, Deduct</i>	-5.40	
			<i>For Work In Restricted Working Space, Add</i>	3.18	
26 05 29 00-0278	EA	3-1/2"	"J" Type Conduit Hanger (Unistrut J1235).....	35.27	
			<i>For >50 To 100, Deduct</i>	-1.17	
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-4.09	
			<i>For >500, Deduct</i>	-5.84	
			<i>For Work In Restricted Working Space, Add</i>	3.47	
26 05 29 00-0279	EA	4"	"J" Type Conduit Hanger (Unistrut J1240).....	46.05	
			<i>For >50 To 100, Deduct</i>	-1.44	
			<i>For >100 To 250, Deduct</i>	-2.88	
			<i>For >250 To 500, Deduct</i>	-4.90	
			<i>For >500, Deduct</i>	-6.92	
			<i>For Work In Restricted Working Space, Add</i>	3.47	
26 05 29 00-0280	EA	5"	"J" Type Conduit Hanger (Unistrut J1250).....	50.56	
			<i>For >50 To 100, Deduct</i>	-1.58	
			<i>For >100 To 250, Deduct</i>	-3.16	
			<i>For >250 To 500, Deduct</i>	-5.36	
			<i>For >500, Deduct</i>	-7.56	
			<i>For Work In Restricted Working Space, Add</i>	3.76	
26 05 29 00-0281	EA	6"	"J" Type Conduit Hanger (Unistrut J1260).....	70.57	
			<i>For >50 To 100, Deduct</i>	-2.13	
			<i>For >100 To 250, Deduct</i>	-4.25	
			<i>For >250 To 500, Deduct</i>	-7.10	
			<i>For >500, Deduct</i>	-9.95	
			<i>For Work In Restricted Working Space, Add</i>	4.34	
26 05 29 00-0282			Between Studs Box Brackets <small>(26 05 29 00-0165)</small>		
26 05 29 00-0283	EA	16"	Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB16A)	6.08	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.82	
			<i>For >500, Deduct</i>	-1.19	
			<i>For Work In Restricted Working Space, Add</i>	0.87	
26 05 29 00-0284	EA	24"	Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB24A)	7.17	
			<i>For >50 To 100, Deduct</i>	-0.25	
			<i>For >100 To 250, Deduct</i>	-0.50	
			<i>For >250 To 500, Deduct</i>	-0.90	
			<i>For >500, Deduct</i>	-1.30	
			<i>For Work In Restricted Working Space, Add</i>	0.87	
26 05 29 00-0285			Hangers And Brackets <small>(26 05 29 00-0165)</small>		
26 05 29 00-0286	EA		Rod Hangers Only With 1/4" Thread Impression (Caddy 4TI)	2.35	
			<i>For >50 To 100, Deduct</i>	-0.11	
			<i>For >100 To 250, Deduct</i>	-0.21	
			<i>For >250 To 500, Deduct</i>	-0.42	
			<i>For >500, Deduct</i>	-0.62	
26 05 29 00-0287	EA		Angle Bracket Only With 1/4" Hole (Caddy AB)	2.28	
			<i>For >50 To 100, Deduct</i>	-0.11	
			<i>For >100 To 250, Deduct</i>	-0.21	
			<i>For >250 To 500, Deduct</i>	-0.41	
			<i>For >500, Deduct</i>	-0.61	
26 05 29 00-0288	EA		Offset Bracket Only With 1/4" Hole (Caddy AO)	2.28	
			<i>For >50 To 100, Deduct</i>	-0.11	
			<i>For >100 To 250, Deduct</i>	-0.21	
			<i>For >250 To 500, Deduct</i>	-0.41	
			<i>For >500, Deduct</i>	-0.61	
26 05 29 00-0289	EA		Angle Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIB).....	2.94	
			<i>For >50 To 100, Deduct</i>	-0.12	
			<i>For >100 To 250, Deduct</i>	-0.24	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500, Deduct</i>	-0.68	
26 05 29 00-0290	EA		Angle Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIB).....	2.96	
			<i>For >50 To 100, Deduct</i>	-0.12	
			<i>For >100 To 250, Deduct</i>	-0.24	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500, Deduct</i>	-0.68	
26 05 29 00-0291	EA		Angle Bracket Mount, 1/4" Or 3/8" Threaded Rod Hanger With Nut (Caddy 6TB).....	2.88	
			<i>For >50 To 100, Deduct</i>	-0.12	
			<i>For >100 To 250, Deduct</i>	-0.24	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500, Deduct</i>	-0.67	
26 05 29 00-0292	EA		Offset Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIO).....	2.94	
			<i>For >50 To 100, Deduct</i>	-0.12	
			<i>For >100 To 250, Deduct</i>	-0.24	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500, Deduct</i>	-0.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0293 EA Offset Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIO).....	2.96	
<i>For >50 To 100, Deduct</i>	-0.12	
<i>For >100 To 250, Deduct</i>	-0.24	
<i>For >250 To 500, Deduct</i>	-0.46	
<i>For >500, Deduct</i>	-0.68	
26 05 29 00-0294 Clips And Accessories <small>(26 05 29 00-0165)</small>		
26 05 29 00-0295 EA 1/2" Diameter Center, Bridle Ring (Caddy 2BR)	1.57	
<i>For >50 To 100, Deduct</i>	-0.07	
<i>For >100 To 250, Deduct</i>	-0.14	
<i>For >250 To 500, Deduct</i>	-0.27	
<i>For >500, Deduct</i>	-0.40	
26 05 29 00-0296 EA 3/4" Diameter Center, Bridle Ring (Caddy 2BR12)	1.59	
<i>For >50 To 100, Deduct</i>	-0.07	
<i>For >100 To 250, Deduct</i>	-0.14	
<i>For >250 To 500, Deduct</i>	-0.27	
<i>For >500, Deduct</i>	-0.40	
26 05 29 00-0297 EA 1-1/4" Diameter Center, Bridle Ring (Caddy 2BR20)	1.69	
<i>For >50 To 100, Deduct</i>	-0.07	
<i>For >100 To 250, Deduct</i>	-0.14	
<i>For >250 To 500, Deduct</i>	-0.28	
<i>For >500, Deduct</i>	-0.41	
26 05 29 00-0298 EA 2" Diameter Center, Bridle Ring (Caddy 2BR32)	1.90	
<i>For >50 To 100, Deduct</i>	-0.08	
<i>For >100 To 250, Deduct</i>	-0.16	
<i>For >250 To 500, Deduct</i>	-0.29	
<i>For >500, Deduct</i>	-0.43	
26 05 29 00-0299 Wire Ties <small>(26 05 29 00-0165)</small>		
Note: Per hundred (C).		
26 05 29 00-0300 C 3" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	23.29	
<i>For Up To 0.1, Add</i>	20.14	
<i>For >0.1 To 0.25, Add</i>	10.07	
<i>For >0.25 To 0.75, Add</i>	5.04	
<i>For >2.0, Deduct</i>	-2.01	
<i>For UV Black, Add</i>	0.47	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.04	
26 05 29 00-0301 C 4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	23.41	
<i>For Up To 0.1, Add</i>	20.14	
<i>For >0.1 To 0.25, Add</i>	10.07	
<i>For >0.25 To 0.75, Add</i>	5.04	
<i>For >2.0, Deduct</i>	-2.01	
<i>For UV Black, Add</i>	0.49	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.04	
26 05 29 00-0302 C 4-3/4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	23.50	
<i>For Up To 0.1, Add</i>	20.14	
<i>For >0.1 To 0.25, Add</i>	10.07	
<i>For >0.25 To 0.75, Add</i>	5.04	
<i>For >2.0, Deduct</i>	-2.01	
<i>For UV Black, Add</i>	0.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.04	
26 05 29 00-0303 C 5-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	23.53	
<i>For Up To 0.1, Add</i>	20.14	
<i>For >0.1 To 0.25, Add</i>	10.07	
<i>For >0.25 To 0.75, Add</i>	5.04	
<i>For >2.0, Deduct</i>	-2.01	
<i>For UV Black, Add</i>	0.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.04	
26 05 29 00-0304 C 6-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	24.44	
<i>For Up To 0.1, Add</i>	21.01	
<i>For >0.1 To 0.25, Add</i>	10.51	
<i>For >0.25 To 0.75, Add</i>	5.25	
<i>For >2.0, Deduct</i>	-2.10	
<i>For UV Black, Add</i>	0.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.30	
26 05 29 00-0305 C 8" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	28.05	
<i>For Up To 0.1, Add</i>	21.96	
<i>For >0.1 To 0.25, Add</i>	10.98	
<i>For >0.25 To 0.75, Add</i>	5.49	
<i>For >2.0, Deduct</i>	-2.20	
<i>For UV Black, Add</i>	0.91	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.59	
26 05 29 00-0306 C 4-3/4" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	26.67	
<i>For Up To 0.1, Add</i>	20.14	
<i>For >0.1 To 0.25, Add</i>	10.07	
<i>For >0.25 To 0.75, Add</i>	5.04	
<i>For >2.0, Deduct</i>	-2.01	
<i>For UV Black, Add</i>	0.98	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.04	

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0307 C 6" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	27.59	
For Up To 0.1, Add	21.01	
For >0.1 To 0.25, Add	10.51	
For >0.25 To 0.75, Add	5.25	
For >2.0, Deduct	-2.10	
For UV Black, Add	0.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.30	
26 05 29 00-0308 C 8" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	28.58	
For Up To 0.1, Add	21.96	
For >0.1 To 0.25, Add	10.98	
For >0.25 To 0.75, Add	5.49	
For >2.0, Deduct	-2.20	
For UV Black, Add	0.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.59	
26 05 29 00-0309 C 10" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	38.95	
For Up To 0.1, Add	23.69	
For >0.1 To 0.25, Add	11.85	
For >0.25 To 0.75, Add	5.92	
For >2.0, Deduct	-2.37	
For UV Black, Add	2.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 29 00-0310 C 11-1/2" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	40.33	
For Up To 0.1, Add	23.69	
For >0.1 To 0.25, Add	11.85	
For >0.25 To 0.75, Add	5.92	
For >2.0, Deduct	-2.37	
For UV Black, Add	2.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 29 00-0311 C 7" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	29.54	
For Up To 0.1, Add	21.96	
For >0.1 To 0.25, Add	10.98	
For >0.25 To 0.75, Add	5.49	
For >2.0, Deduct	-2.20	
For UV Black, Add	1.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.59	
26 05 29 00-0312 C 8" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	28.32	
For Up To 0.1, Add	21.96	
For >0.1 To 0.25, Add	10.98	
For >0.25 To 0.75, Add	5.49	
For >2.0, Deduct	-2.20	
For UV Black, Add	0.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.59	
26 05 29 00-0313 C 11" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	39.33	
For Up To 0.1, Add	23.69	
For >0.1 To 0.25, Add	11.85	
For >0.25 To 0.75, Add	5.92	
For >2.0, Deduct	-2.37	
For UV Black, Add	2.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 29 00-0314 C 14-1/2" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	44.39	
For Up To 0.1, Add	25.16	
For >0.1 To 0.25, Add	12.58	
For >0.25 To 0.75, Add	6.29	
For >2.0, Deduct	-2.52	
For UV Black, Add	2.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.55	
26 05 29 00-0315 C 8" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	42.60	
For Up To 0.1, Add	21.96	
For >0.1 To 0.25, Add	10.98	
For >0.25 To 0.75, Add	5.49	
For >2.0, Deduct	-2.20	
For UV Black, Add	3.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.59	
26 05 29 00-0316 C 11" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	46.54	
For Up To 0.1, Add	23.69	
For >0.1 To 0.25, Add	11.85	
For >0.25 To 0.75, Add	5.92	
For >2.0, Deduct	-2.37	
For UV Black, Add	3.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 29 00-0317 C 15" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	55.21	
For Up To 0.1, Add	25.16	
For >0.1 To 0.25, Add	12.58	
For >0.25 To 0.75, Add	6.29	
For >2.0, Deduct	-2.52	
For UV Black, Add	4.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.55	
26 05 29 00-0318 C 17" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	76.08	
For Up To 0.1, Add	26.84	
For >0.1 To 0.25, Add	13.42	
For >0.25 To 0.75, Add	6.71	
For >2.0, Deduct	-2.68	
For UV Black, Add	7.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0319 C 17-3/4" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	73.98	
For Up To 0.1, Add	26.84	
For >0.1 To 0.25, Add	13.42	
For >0.25 To 0.75, Add	6.71	
For >2.0, Deduct	-2.68	
For UV Black, Add	7.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.05	
26 05 29 00-0320 C 21-11/16" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	88.66	
For Up To 0.1, Add	28.09	
For >0.1 To 0.25, Add	14.05	
For >0.25 To 0.75, Add	7.02	
For >2.0, Deduct	-2.81	
For UV Black, Add	9.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.43	
26 05 29 00-0321 C 30" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	101.66	
For Up To 0.1, Add	29.46	
For >0.1 To 0.25, Add	14.73	
For >0.25 To 0.75, Add	7.37	
For >2.0, Deduct	-2.95	
For UV Black, Add	10.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.84	
26 05 29 00-0322 C 46" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	136.69	
For Up To 0.1, Add	31.79	
For >0.1 To 0.25, Add	15.90	
For >0.25 To 0.75, Add	7.95	
For >2.0, Deduct	-3.18	
For UV Black, Add	15.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.54	
26 05 29 00-0323 C 3/4" x 3/4" Self Adhesive Tie Mounts.....	31.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.06	
26 05 29 00-0324 C 1.1" x 1.1" Tie Mounts With Screw.....	63.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.12	
26 05 29 00-0325 EA 6" Length x 1/2" Width, Velcro Grip Cable Tie.....	1.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.14	
26 05 29 00-0326 EA 8" Length x 1/2" Width, Velcro Grip Cable Tie.....	1.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.12	
26 05 29 00-0327 EA 12" Length x 1/2" Width, Velcro Grip Cable Tie.....	1.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.12	
26 05 29 00-0328 EA 15" Length x 3/4" Width, Velcro Grip Cable Tie.....	2.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.12	
26 05 29 00-0329 EA 180" Length x 3/4" Width, Velcro Grip Cable Tie Roll.....	59.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.91	
26 05 29 00-0330 Fastening Devices For Wireway And Conduit <small>(26 05 29)</small>		
Note: Bolts include drilling of holes with power tools in concrete, brick, concrete block, wood, tile or steel and alignment of hangers and supports.		
26 05 29 00-0331 Toggle Bolts <small>(26 05 29 00-0330)</small>		
Note: Includes machine screw, toggle wing and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0332 EA 1/8" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt.....	7.52	
For >50 To 100, Deduct	-0.72	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.58	
26 05 29 00-0333 EA 1/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	7.73	
For >50 To 100, Deduct	-0.74	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-2.57	
For >500, Deduct	-3.67	
26 05 29 00-0334 EA 3/16" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt.....	8.15	
For >50 To 100, Deduct	-0.76	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-2.65	
For >500, Deduct	-3.78	
26 05 29 00-0335 EA 3/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	8.36	
For >50 To 100, Deduct	-0.78	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.87	
26 05 29 00-0336 EA 1/4" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	8.55	
For >50 To 100, Deduct	-0.80	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-2.78	
For >500, Deduct	-3.96	
26 05 29 00-0337 EA 5/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	9.70	
For >50 To 100, Deduct	-0.84	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.91	
For >500, Deduct	-4.15	
26 05 29 00-0338 EA 3/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	10.11	
For >50 To 100, Deduct	-0.86	
For >100 To 250, Deduct	-1.72	
For >250 To 500, Deduct	-2.99	
For >500, Deduct	-4.26	

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0339 Machine Screws <small>(26 05 29 00-0330)</small> Note: Includes drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0340 EA #8 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.22	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.76	
For >500, Deduct	-1.08	
26 05 29 00-0341 EA #10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.25	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.76	
For >500, Deduct	-1.08	
26 05 29 00-0342 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.83	
For >50 To 100, Deduct	-0.27	
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-0.95	
For >500, Deduct	-1.36	
26 05 29 00-0343 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.96	
For >50 To 100, Deduct	-0.28	
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-0.96	
For >500, Deduct	-1.37	
26 05 29 00-0344 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.65	
For >50 To 100, Deduct	-0.33	
For >100 To 250, Deduct	-0.66	
For >250 To 500, Deduct	-1.16	
For >500, Deduct	-1.65	
26 05 29 00-0345 Hex Lag Bolts With Lag Shield Expansion Anchors <small>(26 05 29 00-0330)</small> Note: Includes lag bolt, lag shield expansion anchor and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0346 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor.....	3.65	
For >50 To 100, Deduct	-0.29	
For >100 To 250, Deduct	-0.59	
For >250 To 500, Deduct	-1.01	
For >500, Deduct	-1.44	
26 05 29 00-0347 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor.....	3.61	
For >50 To 100, Deduct	-0.29	
For >100 To 250, Deduct	-0.58	
For >250 To 500, Deduct	-1.01	
For >500, Deduct	-1.44	
26 05 29 00-0348 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor.....	5.12	
For >50 To 100, Deduct	-0.37	
For >100 To 250, Deduct	-0.74	
For >250 To 500, Deduct	-1.27	
For >500, Deduct	-1.80	
26 05 29 00-0349 EA 1/2" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor.....	6.56	
For >50 To 100, Deduct	-0.44	
For >100 To 250, Deduct	-0.89	
For >250 To 500, Deduct	-1.52	
For >500, Deduct	-2.15	
26 05 29 00-0350 Hanger Lag Bolts With Hex Nuts <small>(26 05 29 00-0330)</small> Note: Includes hanger lag bolt (threaded one side), hex nut and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0351 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	2.72	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.79	
For >500, Deduct	-1.13	
26 05 29 00-0352 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	2.77	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.80	
For >500, Deduct	-1.13	
26 05 29 00-0353 EA 3/8" Diameter, 2-1/2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	3.28	
For >50 To 100, Deduct	-0.26	
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-0.90	
For >500, Deduct	-1.28	
26 05 29 00-0354 Hollow Wall Screw Anchors <small>(26 05 29 00-0330)</small>		
26 05 29 00-0355 EA 6-32 Screw Size, 5/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	1.60	
For >50 To 100, Deduct	-0.14	
For >100 To 250, Deduct	-0.27	
For >250 To 500, Deduct	-0.47	
For >500, Deduct	-0.67	
26 05 29 00-0356 EA 6-32 Screw Size, 5/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	1.65	
For >50 To 100, Deduct	-0.14	
For >100 To 250, Deduct	-0.27	
For >250 To 500, Deduct	-0.48	
For >500, Deduct	-0.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0357 EA 6-32 Screw Size, 5/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	1.73	
<i>For >50 To 100, Deduct</i>	-0.14	
<i>For >100 To 250, Deduct</i>	-0.28	
<i>For >250 To 500, Deduct</i>	-0.48	
<i>For >500, Deduct</i>	-0.69	
26 05 29 00-0358 EA 10-24 Screw Size, 3/8" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.20	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.33	
<i>For >250 To 500, Deduct</i>	-0.57	
<i>For >500, Deduct</i>	-0.82	
26 05 29 00-0359 EA 10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.31	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.34	
<i>For >250 To 500, Deduct</i>	-0.58	
<i>For >500, Deduct</i>	-0.83	
26 05 29 00-0360 EA 10-24 Screw Size, 3/8" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.34	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.34	
<i>For >250 To 500, Deduct</i>	-0.59	
<i>For >500, Deduct</i>	-0.83	
26 05 29 00-0361 EA 1/4-20 Screw Size, 7/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.36	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.34	
<i>For >250 To 500, Deduct</i>	-0.59	
<i>For >500, Deduct</i>	-0.83	
26 05 29 00-0362 EA 1/4-20 Screw Size, 7/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.52	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.60	
<i>For >500, Deduct</i>	-0.85	
26 05 29 00-0363 EA 1/4-20 Screw Size, 7/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.58	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.60	
<i>For >500, Deduct</i>	-0.85	
26 05 29 00-0364 Lead Screw Anchors <small>(26 05 29 00-0330)</small>		
Note: Includes screw.		
26 05 29 00-0365 EA #6-8 Screw Size, 1/4" Hole Diameter, Lead Screw Anchor With Screw	3.71	
<i>For >50 To 100, Deduct</i>	-0.34	
<i>For >100 To 250, Deduct</i>	-0.68	
<i>For >250 To 500, Deduct</i>	-1.18	
<i>For >500, Deduct</i>	-1.69	
26 05 29 00-0366 EA #10-14 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	4.42	
<i>For >50 To 100, Deduct</i>	-0.40	
<i>For >100 To 250, Deduct</i>	-0.79	
<i>For >250 To 500, Deduct</i>	-1.38	
<i>For >500, Deduct</i>	-1.97	
26 05 29 00-0367 EA #16-18 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	5.99	
<i>For >50 To 100, Deduct</i>	-0.51	
<i>For >100 To 250, Deduct</i>	-1.03	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.54	
26 05 29 00-0368 Acoustical T-Bar Clips <small>(26 05 29 00-0330)</small>		
Note: For conduit installation above suspended ceilings up to 15' height.		
26 05 29 00-0369 EA 1/2" Conduit, Push-In Acoustical T-Bar Clip	5.64	
<i>For >50 To 100, Deduct</i>	-0.45	
<i>For >100 To 250, Deduct</i>	-0.90	
<i>For >250 To 500, Deduct</i>	-1.55	
<i>For >500, Deduct</i>	-2.21	
26 05 29 00-0370 EA 3/4" Conduit, Push-In Acoustical T-Bar Clip	5.92	
<i>For >50 To 100, Deduct</i>	-0.47	
<i>For >100 To 250, Deduct</i>	-0.95	
<i>For >250 To 500, Deduct</i>	-1.63	
<i>For >500, Deduct</i>	-2.32	
26 05 29 00-0371 EA 1" Conduit, Push-In Acoustical T-Bar Clip	6.42	
<i>For >50 To 100, Deduct</i>	-0.50	
<i>For >100 To 250, Deduct</i>	-1.01	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.47	
26 05 29 00-0372 Threaded Rod, Accessories And Attachments <small>(26 05 29)</small>		
26 05 29 00-0373 Threaded Rod And Rod Accessories <small>(26 05 29 00-0372)</small>		
26 05 29 00-0374 Carbon Steel Threaded Rod <small>(26 05 29 00-0373)</small>		
Note: Includes plain finish.		
26 05 29 00-0375 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.79	0.61
<i>For Galvanized, Add</i>	0.64	
<i>For Zinc Coated, Add</i>	0.45	

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0376	LF		1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.81	0.65
			<i>For Galvanized, Add</i>	1.01	
			<i>For Zinc Coated, Add</i>	0.72	
26 05 29 00-0377	LF		5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.24	0.66
			<i>For Galvanized, Add</i>	1.56	
			<i>For Zinc Coated, Add</i>	1.11	
26 05 29 00-0378	LF		3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	8.48	0.68
			<i>For Galvanized, Add</i>	2.84	
			<i>For Zinc Coated, Add</i>	2.03	
26 05 29 00-0379	LF		7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	9.24	0.71
			<i>For Galvanized, Add</i>	3.13	
			<i>For Zinc Coated, Add</i>	2.23	
26 05 29 00-0380	LF		1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	12.59	0.80
			<i>For Galvanized, Add</i>	4.39	
			<i>For Zinc Coated, Add</i>	3.13	
26 05 29 00-0381	LF		1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	15.63	0.89
			<i>For Galvanized, Add</i>	5.54	
			<i>For Zinc Coated, Add</i>	3.94	
26 05 29 00-0382			Threaded Rod Couplings (26 05 29 00-0373)		
26 05 29 00-0383	EA		3/8" Diameter, Threaded Rod Coupling Nut.....	7.78	
26 05 29 00-0384	EA		1/2" Diameter, Threaded Rod Coupling Nut.....	8.83	
26 05 29 00-0385	EA		5/8" Diameter, Threaded Rod Coupling Nut.....	11.04	
26 05 29 00-0386	EA		3/4" Diameter, Threaded Rod Coupling Nut.....	13.47	
26 05 29 00-0387	EA		7/8" Diameter, Threaded Rod Coupling Nut.....	19.72	
26 05 29 00-0388	EA		1" Diameter, Threaded Rod Coupling Nut.....	23.40	
26 05 29 00-0389	EA		1-1/8" Diameter, Threaded Rod Coupling Nut	44.75	
26 05 29 00-0390			Flat Washers (26 05 29 00-0373)		
26 05 29 00-0391	EA		3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.67	0.24
			<i>For Galvanized, Add</i>	0.03	
26 05 29 00-0392	EA		1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.86	0.24
			<i>For Galvanized, Add</i>	0.07	
26 05 29 00-0393	EA		5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.12	0.24
			<i>For Galvanized, Add</i>	0.12	
26 05 29 00-0394	EA		3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.38	0.48
			<i>For Galvanized, Add</i>	0.18	
26 05 29 00-0395	EA		7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.55	0.48
			<i>For Galvanized, Add</i>	0.21	
26 05 29 00-0396	EA		1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.83	0.48
			<i>For Galvanized, Add</i>	0.26	
26 05 29 00-0397	EA		1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.06	0.48
			<i>For Galvanized, Add</i>	0.29	
26 05 29 00-0398			Malleable Iron Eye Sockets (26 05 29 00-0373)		
			Note: Type 16.		
26 05 29 00-0399	EA		3/8" Rod Size, Malleable Iron Eye Socket.....	8.44	
26 05 29 00-0400	EA		1/2" Rod Size, Malleable Iron Eye Socket.....	10.06	
26 05 29 00-0401	EA		5/8" Rod Size, Malleable Iron Eye Socket.....	17.31	
26 05 29 00-0402	EA		3/4" Rod Size, Malleable Iron Eye Socket.....	24.56	
26 05 29 00-0403	EA		7/8" Rod Size, Malleable Iron Eye Socket.....	26.20	
26 05 29 00-0404			Hex Nuts (26 05 29 00-0373)		
26 05 29 00-0405	EA		3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.65	0.24
			<i>For Galvanized, Add</i>	0.03	
26 05 29 00-0406	EA		1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.82	0.24
			<i>For Galvanized, Add</i>	0.06	
26 05 29 00-0407	EA		5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.12	0.24
			<i>For Galvanized, Add</i>	0.12	
26 05 29 00-0408	EA		3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.33	0.48
			<i>For Galvanized, Add</i>	0.17	
26 05 29 00-0409	EA		7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.96	0.48
			<i>For Galvanized, Add</i>	0.31	
26 05 29 00-0410	EA		1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.49	0.48
			<i>For Galvanized, Add</i>	0.42	
26 05 29 00-0411	EA		1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	4.09	0.48
			<i>For Galvanized, Add</i>	0.80	
26 05 29 00-0412			Forged Steel Turnbuckles (26 05 29 00-0373)		
			Note: Type 13.		
26 05 29 00-0413	EA		3/8" Thread Diameter, Forged Steel Turnbuckle Body	20.90	
26 05 29 00-0414	EA		1/2" Thread Diameter, Forged Steel Turnbuckle Body	25.67	
26 05 29 00-0415	EA		5/8" Thread Diameter, Forged Steel Turnbuckle Body	34.07	
26 05 29 00-0416	EA		3/4" Thread Diameter, Forged Steel Turnbuckle Body	42.02	
26 05 29 00-0417	EA		7/8" Thread Diameter, Forged Steel Turnbuckle Body	101.10	
26 05 29 00-0418	EA		1" Thread Diameter, Forged Steel Turnbuckle Body	68.40	
26 05 29 00-0419	EA		1-1/4" Thread Diameter, Forged Steel Turnbuckle Body	135.64	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0420				Attachments <small>(26 05 29 00-0372)</small>		
26 05 29 00-0421				Welded Beam Attachments <small>(26 05 29 00-0420)</small>		
				Note: Type 22.		
26 05 29 00-0422	EA			3/8" Rod Size, Welded Beam Attachment	38.58	9.65
26 05 29 00-0423	EA			1/2" Rod Size, Welded Beam Attachment	41.12	10.13
26 05 29 00-0424	EA			5/8" Rod Size, Welded Beam Attachment	43.73	10.71
26 05 29 00-0425	EA			3/4" Rod Size, Welded Beam Attachment	54.99	11.39
26 05 29 00-0426	EA			7/8" Rod Size, Welded Beam Attachment	65.45	12.06
26 05 29 00-0427	EA			1" Rod Size, Welded Beam Attachment	90.65	13.80
26 05 29 00-0428	EA			1-1/8" Rod Size, Welded Beam Attachment	126.63	14.48
26 05 29 00-0429				C-Clamp Style Beam Clamps <small>(26 05 29 00-0420)</small>		
				Note: Type 23. Top or bottom flange mount.		
26 05 29 00-0430	EA			3/8" Rod Size, C-Clamp Style Beam Clamp	14.44	7.24
26 05 29 00-0431	EA			1/2" Rod Size, C-Clamp Style Beam Clamp	16.96	7.73
26 05 29 00-0432	EA			5/8" Rod Size, C-Clamp Style Beam Clamp	19.12	8.28
26 05 29 00-0433	EA			3/4" Rod Size, C-Clamp Style Beam Clamp	24.08	8.92
26 05 29 00-0434	EA			7/8" Rod Size, C-Clamp Style Beam Clamp	33.99	9.66
26 05 29 00-0435				Bottom Mount I-Beam Clamps <small>(26 05 29 00-0420)</small>		
				Note: Type 21. For attaching threaded rod centered under beam flanges.		
26 05 29 00-0436	EA			3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	36.80	9.66
26 05 29 00-0437	EA			1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	53.05	10.55
26 05 29 00-0438	EA			5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	74.79	11.60
26 05 29 00-0439	EA			3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	89.24	12.88
26 05 29 00-0440	EA			1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	211.29	14.50
26 05 29 00-0441				Steel U-Bolts <small>(26 05 29 00-0420)</small>		
				Note: Type 24. Includes plate and nuts.		
26 05 29 00-0442	EA			1/2" Pipe Size, Zinc Plated Steel, U-Bolt	11.73	5.80
26 05 29 00-0443	EA			3/4" Pipe Size, Zinc Plated Steel, U-Bolt	12.68	6.10
26 05 29 00-0444	EA			1" Pipe Size, Zinc Plated Steel, U-Bolt	13.61	6.44
26 05 29 00-0445	EA			1-1/4" Pipe Size, Zinc Plated Steel, U-Bolt	15.33	6.82
26 05 29 00-0446	EA			1-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	15.89	7.24
26 05 29 00-0447	EA			2" Pipe Size, Zinc Plated Steel, U-Bolt	16.99	7.74
26 05 29 00-0448	EA			2-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	23.67	8.29
26 05 29 00-0449	EA			3" Pipe Size, Zinc Plated Steel, U-Bolt	26.03	8.92
26 05 29 00-0450	EA			4" Pipe Size, Zinc Plated Steel, U-Bolt	31.12	9.66
26 05 29 00-0451				Stainless Steel Threaded Rod <small>(26 05 29 00-0372)</small>		
26 05 29 00-0452	LF			1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	2.49	0.48
				<i>For 316 Stainless Steel, Add</i>	0.62	
26 05 29 00-0453	LF			5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	3.68	0.53
				<i>For 316 Stainless Steel, Add</i>	1.06	
26 05 29 00-0454	LF			3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	4.70	0.61
				<i>For 316 Stainless Steel, Add</i>	1.42	
26 05 29 00-0455	LF			7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	6.45	0.62
				<i>For 316 Stainless Steel, Add</i>	2.11	
26 05 29 00-0456	LF			1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod	7.69	0.65
				<i>For 316 Stainless Steel, Add</i>	2.60	
26 05 29 00-0457	LF			5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	11.42	0.65
				<i>For 316 Stainless Steel, Add</i>	4.09	
26 05 29 00-0458	LF			3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	15.88	0.66
				<i>For 316 Stainless Steel, Add</i>	5.89	
26 05 29 00-0459	LF			7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	21.75	0.68
				<i>For 316 Stainless Steel, Add</i>	8.25	
26 05 29 00-0460	LF			1" Diameter, 304/18-8 Stainless Steel Threaded Rod	27.93	0.80
				<i>For 316 Stainless Steel, Add</i>	10.66	
26 05 29 00-0461	LF			1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	58.84	0.96
				<i>For 316 Stainless Steel, Add</i>	23.01	
26 05 29 00-0462				Polyvinyl Chloride (PVC) Coated Supports <small>(26 05 29)</small>		
				Note: Includes stainless steel and/or Polyvinyl Chloride (PVC) coated hardware.		
26 05 29 00-0463				Polyvinyl Chloride (PVC) Coated Beam Clamps <small>(26 05 29 00-0462)</small>		
26 05 29 00-0464				Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamps <small>(26 05 29 00-0463)</small>		
26 05 29 00-0465	EA			1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	55.22	19.30
26 05 29 00-0466	EA			3/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	59.99	21.04
26 05 29 00-0467	EA			1", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	63.80	23.16
26 05 29 00-0468	EA			1-1/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	77.14	25.77
26 05 29 00-0469	EA			1-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	89.35	28.95
26 05 29 00-0470	EA			2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	107.71	31.84
26 05 29 00-0471	EA			2-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	117.82	34.74
26 05 29 00-0472	EA			3", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	129.94	37.63

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0473	EA		3-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	136.99	40.53
26 05 29 00-0474	EA		4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	148.18	43.42
26 05 29 00-0475			Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)		
26 05 29 00-0476	EA		1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	59.68	19.30
26 05 29 00-0477	EA		3/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	63.00	21.04
26 05 29 00-0478	EA		1", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	72.83	23.16
26 05 29 00-0479	EA		1-1/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	80.35	25.77
26 05 29 00-0480	EA		1-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	90.59	28.95
26 05 29 00-0481	EA		2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	105.58	31.84
26 05 29 00-0482	EA		2-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	121.84	34.74
26 05 29 00-0483	EA		3", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	135.27	37.63
26 05 29 00-0484	EA		3-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	143.69	40.53
26 05 29 00-0485	EA		4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	149.08	43.42
26 05 29 00-0486			Edge, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)		
26 05 29 00-0487	EA		1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	56.09	19.11
26 05 29 00-0488	EA		3/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	60.24	20.84
26 05 29 00-0489	EA		1", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	68.33	23.16
26 05 29 00-0490	EA		1-1/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	80.67	25.48
26 05 29 00-0491	EA		1-1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	106.37	28.95
26 05 29 00-0492	EA		2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	116.58	31.84
26 05 29 00-0493			Polyvinyl Chloride (PVC) Coated Conduit Straps (26 05 29 00-0462)		
26 05 29 00-0494			One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)		
26 05 29 00-0495	EA		1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	7.30	0.58
26 05 29 00-0496	EA		3/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	7.94	0.58
26 05 29 00-0497	EA		1", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	11.75	0.58
26 05 29 00-0498	EA		1-1/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	14.32	0.58
26 05 29 00-0499	EA		1-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	18.90	0.58
26 05 29 00-0500	EA		2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	28.47	0.58
26 05 29 00-0501	EA		2-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	37.97	0.58
26 05 29 00-0502	EA		3", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	50.92	0.58
26 05 29 00-0503	EA		3-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	90.25	0.58
26 05 29 00-0504	EA		4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	95.92	0.58
26 05 29 00-0505			Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)		
26 05 29 00-0506	EA		1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	14.39	1.16
26 05 29 00-0507	EA		3/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	14.45	1.16
26 05 29 00-0508	EA		1", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	14.84	1.16
26 05 29 00-0509	EA		1-1/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	18.76	1.16
26 05 29 00-0510	EA		1-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	19.29	1.16
26 05 29 00-0511	EA		2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	22.18	1.16
26 05 29 00-0512	EA		2-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	24.98	1.16
26 05 29 00-0513	EA		3", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	26.14	1.16
26 05 29 00-0514	EA		3-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	27.94	1.16
26 05 29 00-0515	EA		4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	30.34	1.16
26 05 29 00-0516			Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0462)		
26 05 29 00-0517			Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0516)		
26 05 29 00-0518	EA		1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	13.02	1.16
26 05 29 00-0519	EA		3/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	15.20	1.16
26 05 29 00-0520	EA		1" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	19.21	1.16
26 05 29 00-0521	EA		1-1/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	22.52	1.16
26 05 29 00-0522	EA		1-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	30.27	1.16
26 05 29 00-0523	EA		2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	37.00	1.16
26 05 29 00-0524	EA		2-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	74.84	1.16
26 05 29 00-0525	EA		3" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	102.33	1.16
26 05 29 00-0526	EA		3-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	179.37	1.16
26 05 29 00-0527	EA		4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	179.37	1.16
26 05 29 00-0528			Polyvinyl Chloride (PVC) Coated Threaded Rod And Accessories (26 05 29 00-0462)		
26 05 29 00-0529			Polyvinyl Chloride (PVC) Coated Threaded Rod (26 05 29 00-0528)		
26 05 29 00-0530	LF		3/8" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....	8.99	0.77
26 05 29 00-0531	LF		1/2" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....	11.10	0.87
26 05 29 00-0532			Attachments (26 05 29 00-0462)		
26 05 29 00-0533			Polyvinyl Chloride (PVC) Coated U-Bolts And Encapsulation Nuts (26 05 29 00-0532)		
26 05 29 00-0534	EA		1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	16.25	5.80
26 05 29 00-0535	EA		3/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	16.76	6.09



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0536 EA 1" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	17.65	6.47
26 05 29 00-0537 EA 1-1/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	18.80	6.86
26 05 29 00-0538 EA 1-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	20.02	7.24
26 05 29 00-0539 EA 2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	22.62	7.74
26 05 29 00-0540 EA 2-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	33.48	8.31
26 05 29 00-0541 EA 3" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	35.06	8.89
26 05 29 00-0542 EA 4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	37.31	9.66
26 05 29 00-0543 EA 5" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	62.24	11.02
26 05 29 00-0544 EA 6" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	77.41	12.75
26 05 29 00-0545 Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamps (26 05 29 00-0532)		
26 05 29 00-0546 EA 1/4", 20 Hole, 15/16" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	56.76	19.11
26 05 29 00-0547 EA 5/16", 18 Hole, 7/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	67.35	19.11
26 05 29 00-0548 EA 3/8", 16 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	71.72	19.11
26 05 29 00-0549 EA 1/2", 13 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	79.37	20.27
26 05 29 00-0550 EA 1/2", 13 Hole, 2-1/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	93.10	23.16
26 05 29 00-0551 Polyvinyl Chloride (PVC) Coated Pipe Straps (26 05 29 00-0532)		
Note: Includes stainless steel nuts and bolts.		
26 05 29 00-0552 EA 1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	17.64	6.37
26 05 29 00-0553 EA 3/4" Polyvinyl Chloride (PVC) Coated Pipe Strap	18.62	6.94
26 05 29 00-0554 EA 1" Polyvinyl Chloride (PVC) Coated Pipe Strap	20.28	7.52
26 05 29 00-0555 EA 1-1/4" Polyvinyl Chloride (PVC) Coated Pipe Strap	22.89	8.69
26 05 29 00-0556 EA 1-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	26.16	9.84
26 05 29 00-0557 EA 2" Polyvinyl Chloride (PVC) Coated Pipe Strap	28.95	10.42
26 05 29 00-0558 EA 2-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	32.01	11.58
26 05 29 00-0559 EA 3" Polyvinyl Chloride (PVC) Coated Pipe Strap	37.78	12.73
26 05 29 00-0560 EA 3-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	41.13	13.32
26 05 29 00-0561 EA 4" Polyvinyl Chloride (PVC) Coated Pipe Strap	43.36	14.48
26 05 29 00-0562 EA 5" Polyvinyl Chloride (PVC) Coated Pipe Strap	46.54	16.21
26 05 29 00-0563 Polyvinyl Chloride (PVC) Coated Channel (26 05 29 00-0462)		
26 05 29 00-0564 LF Polyvinyl Chloride (PVC) Coated Channel, A12	17.25	2.90
26 05 29 00-0565 LF Polyvinyl Chloride (PVC) Coated Channel, A12A.....	30.23	4.06
26 05 29 00-0566 LF Polyvinyl Chloride (PVC) Coated Channel, A12P.....	18.36	2.90
26 05 29 00-0567 LF Polyvinyl Chloride (PVC) Coated Channel, C14.....	13.83	2.90
26 05 29 00-0568 LF Polyvinyl Chloride (PVC) Coated Channel, C14P.....	14.52	2.90
26 05 29 00-0569 Polymer Concrete Pads (26 05 29)		
Note: Excludes excavation and backfill.		
26 05 29 00-0570 Polymer Concrete, Box Pads (26 05 29 00-0569)		
26 05 29 00-0571 EA 24" x 36", 18" Depth, Polymer Concrete, Box Pad.....	811.66	96.90
26 05 29 00-0572 EA 25" x 25", 24" Depth, Polymer Concrete, Box Pad.....	837.19	96.90
26 05 29 00-0573 EA 40" x 44", 15" Depth, Polymer Concrete, Box Pad.....	1,071.80	96.90
26 05 29 00-0574 EA 40" x 44", 24" Depth, Polymer Concrete, Box Pad.....	1,110.70	96.90
26 05 29 00-0575 EA 52" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,035.59	96.90
26 05 29 00-0576 EA 44" x 44", 32" Depth, Polymer Concrete, Box Pad.....	1,219.29	96.90
26 05 29 00-0577 EA 40" x 58", 24" Depth, Polymer Concrete, Box Pad.....	1,360.15	96.90
26 05 29 00-0578 EA 52" x 50", 18" Depth, Polymer Concrete, Box Pad.....	1,316.47	121.12
26 05 29 00-0579 EA 74" x 76", 36" Depth, Polymer Concrete, Box Pad.....	1,974.61	121.12
26 05 29 00-0580 EA 93" x 93", 36" Depth, Polymer Concrete, Box Pad.....	2,636.00	121.12
26 05 29 00-0581 Polymer Concrete, Telecommunications Equipment Pads (26 05 29 00-0569)		
26 05 29 00-0582 EA 42" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	394.01	52.58
26 05 29 00-0583 EA 48" x 46", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	463.75	52.58
26 05 29 00-0584 EA 60" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	602.56	72.67
26 05 29 00-0585 EA 54" x 48", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	628.48	72.67
26 05 29 00-0586 EA 57" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	892.36	72.67
26 05 29 00-0587 EA 72" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	929.03	72.67
26 05 29 00-0588 EA 64" x 72", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	997.37	72.67
26 05 29 00-0589 EA 72" x 64", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	997.37	72.67
26 05 29 00-0590 EA 76" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,855.88	72.67
26 05 29 00-0591 EA 96" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	2,100.84	72.67
26 05 29 00-0592 Polymer Concrete, Electrical Equipment Pads (26 05 29 00-0569)		
26 05 29 00-0593 EA 24" x 25", 2" Thick, Polymer Concrete, Electrical Equipment Pad	246.29	52.58
26 05 29 00-0594 EA 24" x 36", 2" Thick, Polymer Concrete, Electrical Equipment Pad	264.22	52.58
26 05 29 00-0595 EA 24" x 44", 2" Thick, Polymer Concrete, Electrical Equipment Pad	280.55	52.58
26 05 29 00-0596 EA 24" x 58", 2" Thick, Polymer Concrete, Electrical Equipment Pad	334.81	52.58
26 05 29 00-0597 EA 40" x 40", 3" Thick, Polymer Concrete, Electrical Equipment Pad	310.59	52.58
26 05 29 00-0598 EA 42" x 42", 3" Thick, Polymer Concrete, Electrical Equipment Pad	322.00	52.58
26 05 29 00-0599 EA 48" x 42", 4" Thick, Polymer Concrete, Electrical Equipment Pad	351.58	52.58
26 05 29 00-0600 EA 48" x 46", 3" Thick, Polymer Concrete, Electrical Equipment Pad	368.83	52.58
26 05 29 00-0601 EA 54" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad	426.45	52.58

26 Electrical

26 05 Common Work Results For Electrical

26 05 29 Hangers And Supports For Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0602	EA		56" x 44", 3" Thick, Polymer Concrete, Electrical Equipment Pad	521.36	52.58
26 05 29 00-0603	EA		64" x 64", 4" Thick, Polymer Concrete, Electrical Equipment Pad	765.23	72.67
26 05 29 00-0604	EA		66" x 72", 4" Thick, Polymer Concrete, Electrical Equipment Pad	799.92	72.67
26 05 29 00-0605	EA		75" x 52", 4" Thick, Polymer Concrete, Electrical Equipment Pad	810.87	72.67
26 05 29 00-0606	EA		90" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad	883.79	72.67
26 05 29 00-0607	EA		84" x 96", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,859.17	72.67
26 05 29 00-0608	EA		96" x 80", 4" Thick, Polymer Concrete, Electrical Equipment Pad	2,185.88	72.67

26 05 33 Raceway And Boxes For Electrical Systems (26 05)

26 05 33 13 Conduit For Electrical Systems (26 05 33)

26 05 33 13-0001 Conduit Assemblies (26 05 33 13)

Note: Includes conduit, fittings and wire. Excludes hangers or supports.

26 05 33 13-0002 Electrical Metallic Tubing (EMT) Conduit Assemblies (26 05 33 13-0001)

Note: Includes conduit, field bends, set screw connectors, set screw couplings, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0240 for larger copper conductor, 26 05 33 13-0593 for larger EMT conduit.

26 05 33 13-0003	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	697.85	215.62
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	184.85	
			<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1.03	
26 05 33 13-0004	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	761.11	234.15
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	200.73	
			<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1.55	
26 05 33 13-0005	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	824.34	252.67
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	216.60	
			<i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	2.06	
26 05 33 13-0006	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	734.69	224.88
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	192.79	
			<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1.55	
26 05 33 13-0007	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	811.93	246.49
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	211.31	
			<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	2.32	
26 05 33 13-0008	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor	815.75	243.41
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	208.67	
			<i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	2.70	
26 05 33 13-0009	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	772.56	232.46
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	199.25	
			<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1.03	
26 05 33 13-0010	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	835.79	250.99
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	215.12	
			<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1.55	
26 05 33 13-0011	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	899.04	269.52
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	231.00	
26 05 33 13-0012	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	962.30	288.05
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	246.89	
			<i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	2.58	
26 05 33 13-0013	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	809.37	241.73
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	207.18	
			<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0014 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	886.62 225.71 2.32	263.34
26 05 33 13-0015 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	963.88 244.24 3.09	284.96
26 05 33 13-0016 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,041.13 262.76 3.87	306.58
26 05 33 13-0017 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	996.82 246.89 4.05	288.05
26 05 33 13-0018 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	1,103.18 270.70 5.39	315.84
26 05 33 13-0019 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	990.10 238.94 4.46	278.79
26 05 33 13-0020 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,131.73 268.06 6.69	312.75
26 05 33 13-0021 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	874.05 214.49 1.03	250.20
26 05 33 13-0022 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	937.30 230.37 1.55	268.72
26 05 33 13-0023 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,000.54 246.25	287.25
26 05 33 13-0024 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	1,063.80 262.13 2.58	305.78
26 05 33 13-0025 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	910.89 222.43 1.55	259.46
26 05 33 13-0026 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	988.13 240.95 2.32	281.08
26 05 33 13-0027 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,065.39 259.48 3.09	302.69

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0028	CLF		1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,142.64 278.01 3.87	324.31
26 05 33 13-0029	CLF		1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,098.32 262.13 4.05	305.78
26 05 33 13-0030	CLF		1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,233.23 283.30 6.69	330.48
26 05 33 13-0031	CLF		1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	1,374.87 312.41 8.92	364.44
26 05 33 13-0032			Rigid Galvanized Steel (RGS) Conduit Assemblies <small>(26 05 33 13-0001)</small> Note: Includes conduit, field bends, terminations, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0240 for larger copper conductor, 26 05 33 13-0059 for larger RGS conduit.		
26 05 33 13-0033	CLF		1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	900.41 210.36 1.03	245.43
26 05 33 13-0034	CLF		1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	963.65 226.24 1.55	263.96
26 05 33 13-0035	CLF		1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	937.24 218.30 1.55	254.70
26 05 33 13-0036	CLF		1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,014.49 236.83 2.32	276.31
26 05 33 13-0037	CLF		1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	1,018.29 234.18 2.70	273.22
26 05 33 13-0038	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	986.38 224.33 1.03	261.76
26 05 33 13-0039	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,049.62 240.21 1.55	280.29
26 05 33 13-0040	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,112.87 256.09	298.81
26 05 33 13-0041	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,023.20 232.27 1.55	271.02
26 05 33 13-0042	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,100.45 250.80 2.32	292.64
26 05 33 13-0043	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,177.70 269.33 3.09	314.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0044 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #8 THWN Conductor Instead Of THHN, Add	1,210.64 271.97 4.05	317.34
26 05 33 13-0045 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #8 THWN Conductor Instead Of THHN, Add	1,317.02 295.79 5.39	345.13
26 05 33 13-0046 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 2 #6 THWN Conductor Instead Of THHN, Add	1,203.92 264.03 4.46	308.07
26 05 33 13-0047 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #6 THWN Conductor Instead Of THHN, Add	1,345.57 293.15 6.69	342.04
26 05 33 13-0048 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #12 THWN Conductor Instead Of THHN, Add	1,255.94 267.92 1.55	312.57
26 05 33 13-0049 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add	1,319.19 283.81	331.10
26 05 33 13-0050 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 5 #12 THWN Conductor Instead Of THHN, Add	1,382.42 299.68 2.58	349.63
26 05 33 13-0051 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #10 THWN Conductor Instead Of THHN, Add	1,306.77 278.51 2.32	324.93
26 05 33 13-0052 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #10 THWN Conductor Instead Of THHN, Add	1,384.02 297.04 3.09	346.53
26 05 33 13-0053 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 5 #10 THWN Conductor Instead Of THHN, Add	1,461.27 315.56 3.87	368.15
26 05 33 13-0054 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #8 THWN Conductor Instead Of THHN, Add	1,416.95 299.68 4.05	349.63
26 05 33 13-0055 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #6 THWN Conductor Instead Of THHN, Add	1,551.88 320.86 6.69	374.33
26 05 33 13-0056 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #6 THWN Conductor Instead Of THHN, Add	1,693.51 349.97 8.92	408.29
26 05 33 13-0057 Conduit <small>(26 05 33 13)</small> Note: Includes warning tape for underground conduits. Where 4-1/2" conduit is required, use tasks for 5" conduit. Add couplings as required at each fitting.		
26 05 33 13-0058 Conduit Installed Above Grade <small>(26 05 33 13-0057)</small> See CSI section 26 05 29 00-0000 for supporting strap, hanger and fastening.		
26 05 33 13-0059 Rigid Galvanized Steel (RGS) Or Galvanized Rigid Steel Conduit (GRC) Conduit <small>(26 05 33 13-0058)</small> Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0060 Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling <small>(26 05 33 13-0059)</small> Note: Includes field bending for conduit up to 1".		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0061 LF 1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	6.46	1.94
For >250 To 500, Deduct	-0.08	
For >500 To 1,000, Deduct	-0.36	
For >1,000, Deduct	-0.52	
For Installation In Metal Stud Wall, Add	0.49	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.21	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.73	
For Work In Restricted Working Space, Add	1.46	
For Installation Above 14', Add	0.73	
26 05 33 13-0062 LF 3/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	7.27	2.11
For >250 To 500, Deduct	-0.10	
For >500 To 1,000, Deduct	-0.41	
For >1,000, Deduct	-0.59	
For Installation In Metal Stud Wall, Add	0.53	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.32	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.79	
For Work In Restricted Working Space, Add	1.59	
For Installation Above 14', Add	0.79	
26 05 33 13-0063 LF 1" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	9.24	2.47
For >250 To 500, Deduct	-0.15	
For >500 To 1,000, Deduct	-0.54	
For >1,000, Deduct	-0.77	
For Installation In Metal Stud Wall, Add	0.62	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.54	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.93	
For Work In Restricted Working Space, Add	1.85	
For Installation Above 14', Add	0.93	
26 05 33 13-0064 LF 1-1/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	11.15	2.83
For >250 To 500, Deduct	-0.20	
For >500 To 1,000, Deduct	-0.66	
For >1,000, Deduct	-0.94	
For Installation In Metal Stud Wall, Add	0.71	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.77	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.06	
For Work In Restricted Working Space, Add	2.12	
For Installation Above 14', Add	1.06	
26 05 33 13-0065 LF 1-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	12.95	3.18
For >250 To 500, Deduct	-0.25	
For >500 To 1,000, Deduct	-0.77	
For >1,000, Deduct	-1.10	
For Installation In Metal Stud Wall, Add	0.79	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.99	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.19	
For Work In Restricted Working Space, Add	2.38	
For Installation Above 14', Add	1.19	
26 05 33 13-0066 LF 2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	16.40	3.88
For >250 To 500, Deduct	-0.34	
For >500 To 1,000, Deduct	-0.99	
For >1,000, Deduct	-1.40	
For Installation In Metal Stud Wall, Add	0.97	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.43	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.46	
For Work In Restricted Working Space, Add	2.91	
For Installation Above 14', Add	1.46	
26 05 33 13-0067 LF 2-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	24.34	5.29
For >250 To 500, Deduct	-0.56	
For >500 To 1,000, Deduct	-1.49	
For >1,000, Deduct	-2.10	
For Installation In Metal Stud Wall, Add	1.32	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.31	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.98	
For Work In Restricted Working Space, Add	3.97	
For Installation Above 14', Add	1.98	
26 05 33 13-0068 LF 3" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	31.78	7.06
For >250 To 500, Deduct	-0.71	
For >500 To 1,000, Deduct	-1.94	
For >1,000, Deduct	-2.74	
For Installation In Metal Stud Wall, Add	1.77	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.41	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.65	
For Work In Restricted Working Space, Add	5.30	
For Installation Above 14', Add	2.65	
26 05 33 13-0069 LF 3-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	39.30	8.82
For >250 To 500, Deduct	-0.86	
For >500 To 1,000, Deduct	-2.40	
For >1,000, Deduct	-3.38	
For Installation In Metal Stud Wall, Add	2.21	
For Installation In Wood Stud Wall (Includes Drilling), Add	5.52	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.31	
For Work In Restricted Working Space, Add	6.62	
For Installation Above 14', Add	3.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0070 LF 4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	46.53	10.58
For >250 To 500, Deduct	-1.00	
For >500 To 1,000, Deduct	-2.83	
For >1,000, Deduct	-3.99	
For Installation In Metal Stud Wall, Add	2.65	
For Installation In Wood Stud Wall (Includes Drilling), Add	6.62	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.97	
For Work In Restricted Working Space, Add	7.94	
For Installation Above 14', Add	3.97	
26 05 33 13-0071 LF 5" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	74.19	13.41
For >250 To 500, Deduct	-2.03	
For >500 To 1,000, Deduct	-4.73	
For >1,000, Deduct	-6.58	
For Installation In Metal Stud Wall, Add	3.35	
For Installation In Wood Stud Wall (Includes Drilling), Add	8.38	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.03	
For Work In Restricted Working Space, Add	10.06	
For Installation Above 14', Add	5.03	
26 05 33 13-0072 LF 6" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	99.50	16.94
For >250 To 500, Deduct	-2.86	
For >500 To 1,000, Deduct	-6.40	
For >1,000, Deduct	-8.89	
For Installation In Metal Stud Wall, Add	4.23	
For Installation In Wood Stud Wall (Includes Drilling), Add	10.59	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	6.35	
For Work In Restricted Working Space, Add	12.70	
For Installation Above 14', Add	6.35	
26 05 33 13-0073 Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0074 EA 2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	69.73	19.49
For Work In Restricted Working Space, Add	14.61	
For Installation Above 14', Add	7.30	
26 05 33 13-0075 EA 2-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	98.37	24.35
For Work In Restricted Working Space, Add	18.26	
For Installation Above 14', Add	9.13	
26 05 33 13-0076 EA 3" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	138.75	33.17
For Work In Restricted Working Space, Add	24.88	
For Installation Above 14', Add	12.44	
26 05 33 13-0077 EA 3-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	180.81	37.40
For Work In Restricted Working Space, Add	28.06	
For Installation Above 14', Add	14.03	
26 05 33 13-0078 EA 4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	222.30	48.70
For Work In Restricted Working Space, Add	36.52	
For Installation Above 14', Add	18.26	
26 05 33 13-0079 EA 5" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	363.55	79.41
For Work In Restricted Working Space, Add	59.55	
For Installation Above 14', Add	29.78	
26 05 33 13-0080 EA 6" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	546.51	119.27
For Work In Restricted Working Space, Add	89.45	
For Installation Above 14', Add	44.73	
26 05 33 13-0081 Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0082 EA 1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	25.61	8.73
For Work In Restricted Working Space, Add	6.57	
For Installation Above 14', Add	3.29	
26 05 33 13-0083 EA 3/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	32.11	10.85
For Work In Restricted Working Space, Add	8.17	
For Installation Above 14', Add	4.08	
26 05 33 13-0084 EA 1" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	40.71	13.32
For Work In Restricted Working Space, Add	9.96	
For Installation Above 14', Add	4.98	
26 05 33 13-0085 EA 1-1/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	51.41	15.43
For Work In Restricted Working Space, Add	11.57	
For Installation Above 14', Add	5.79	
26 05 33 13-0086 EA 1-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	59.58	17.73
For Work In Restricted Working Space, Add	13.28	
For Installation Above 14', Add	6.64	
26 05 33 13-0087 EA 2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	69.73	19.49
For Work In Restricted Working Space, Add	14.61	
For Installation Above 14', Add	7.30	
26 05 33 13-0088 EA 2-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	96.85	24.35
For Work In Restricted Working Space, Add	18.26	
For Installation Above 14', Add	9.13	
26 05 33 13-0089 EA 3" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	132.82	33.17
For Work In Restricted Working Space, Add	24.88	
For Installation Above 14', Add	12.44	
26 05 33 13-0090 EA 3-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	172.47	37.40
For Work In Restricted Working Space, Add	28.06	
For Installation Above 14', Add	14.03	
26 05 33 13-0091 EA 4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	211.21	48.70
For Work In Restricted Working Space, Add	36.52	
For Installation Above 14', Add	18.26	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0092 EA 5" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	363.55	79.41
<i>For Work In Restricted Working Space, Add</i>	59.55	
<i>For Installation Above 14', Add</i>	29.78	
26 05 33 13-0093 EA 6" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	546.51	119.27
<i>For Work In Restricted Working Space, Add</i>	89.45	
<i>For Installation Above 14', Add</i>	44.73	
26 05 33 13-0094 Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0095 EA 1" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	61.46	21.79
<i>For Work In Restricted Working Space, Add</i>	13.08	
<i>For Installation Above 14', Add</i>	6.54	
26 05 33 13-0096 EA 1-1/4" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	70.86	25.24
<i>For Work In Restricted Working Space, Add</i>	15.14	
<i>For Installation Above 14', Add</i>	7.57	
26 05 33 13-0097 EA 1-1/2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	81.79	28.67
<i>For Work In Restricted Working Space, Add</i>	17.21	
<i>For Installation Above 14', Add</i>	8.60	
26 05 33 13-0098 EA 2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	91.88	31.54
<i>For Work In Restricted Working Space, Add</i>	18.92	
<i>For Installation Above 14', Add</i>	9.46	
26 05 33 13-0099 Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0100 EA 1" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	66.10	21.79
<i>For Work In Restricted Working Space, Add</i>	13.08	
<i>For Installation Above 14', Add</i>	6.54	
26 05 33 13-0101 EA 1-1/4" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	76.82	25.24
<i>For Work In Restricted Working Space, Add</i>	15.14	
<i>For Installation Above 14', Add</i>	7.57	
26 05 33 13-0102 EA 1-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	84.51	28.67
<i>For Work In Restricted Working Space, Add</i>	17.21	
<i>For Installation Above 14', Add</i>	8.60	
26 05 33 13-0103 EA 2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	94.91	31.54
<i>For Work In Restricted Working Space, Add</i>	18.92	
<i>For Installation Above 14', Add</i>	9.46	
26 05 33 13-0104 EA 2-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	125.32	39.57
<i>For Work In Restricted Working Space, Add</i>	23.74	
<i>For Installation Above 14', Add</i>	11.87	
26 05 33 13-0105 EA 3" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	168.90	53.91
<i>For Work In Restricted Working Space, Add</i>	32.34	
<i>For Installation Above 14', Add</i>	16.17	
26 05 33 13-0106 Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0107 EA 1" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	66.32	21.79
<i>For Work In Restricted Working Space, Add</i>	13.08	
<i>For Installation Above 14', Add</i>	6.54	
26 05 33 13-0108 EA 1-1/4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	76.23	25.24
<i>For Work In Restricted Working Space, Add</i>	15.14	
<i>For Installation Above 14', Add</i>	7.57	
26 05 33 13-0109 EA 1-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	87.44	28.67
<i>For Work In Restricted Working Space, Add</i>	17.21	
<i>For Installation Above 14', Add</i>	8.60	
26 05 33 13-0110 EA 2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	101.48	31.54
<i>For Work In Restricted Working Space, Add</i>	18.92	
<i>For Installation Above 14', Add</i>	9.46	
26 05 33 13-0111 EA 2-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	131.44	39.57
<i>For Work In Restricted Working Space, Add</i>	23.74	
<i>For Installation Above 14', Add</i>	11.87	
26 05 33 13-0112 EA 3" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	173.84	53.91
<i>For Work In Restricted Working Space, Add</i>	32.34	
<i>For Installation Above 14', Add</i>	16.17	
26 05 33 13-0113 EA 3-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	214.90	60.78
<i>For Work In Restricted Working Space, Add</i>	36.47	
<i>For Installation Above 14', Add</i>	18.24	
26 05 33 13-0114 EA 4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	262.55	79.13
<i>For Work In Restricted Working Space, Add</i>	47.48	
<i>For Installation Above 14', Add</i>	23.74	
26 05 33 13-0115 Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0116 EA 1" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	73.71	21.79
<i>For Work In Restricted Working Space, Add</i>	13.08	
<i>For Installation Above 14', Add</i>	6.54	
26 05 33 13-0117 EA 1-1/4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	83.48	25.24
<i>For Work In Restricted Working Space, Add</i>	15.14	
<i>For Installation Above 14', Add</i>	7.57	
26 05 33 13-0118 EA 1-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	92.87	28.67
<i>For Work In Restricted Working Space, Add</i>	17.21	
<i>For Installation Above 14', Add</i>	8.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0119 EA 2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	109.48 18.92 9.46	31.54
26 05 33 13-0120 EA 2-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	142.36 23.74 11.87	39.57
26 05 33 13-0121 EA 3" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	190.96 32.34 16.17	53.91
26 05 33 13-0122 EA 3-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	231.54 36.47 18.24	60.78
26 05 33 13-0123 EA 4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	275.82 47.48 23.74	79.13
26 05 33 13-0124 Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <small>(26 05 33 13-0059)</small> See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0125 EA 1" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	73.26 13.08 6.54	21.79
26 05 33 13-0126 EA 1-1/4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	88.88 15.14 7.57	25.24
26 05 33 13-0127 EA 1-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	98.71 17.21 8.60	28.67
26 05 33 13-0128 EA 2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	117.11 18.92 9.46	31.54
26 05 33 13-0129 EA 2-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	152.84 23.74 11.87	39.57
26 05 33 13-0130 EA 3" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	204.47 32.34 16.17	53.91
26 05 33 13-0131 EA 3-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	248.00 36.47 18.24	60.78
26 05 33 13-0132 EA 4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	300.17 47.48 23.74	79.13
26 05 33 13-0133 EA 5" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	440.32 77.42 38.71	129.02
26 05 33 13-0134 Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <small>(26 05 33 13-0059)</small> See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0135 EA 1" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	77.21 13.08 6.54	21.79
26 05 33 13-0136 EA 1-1/4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	91.53 15.14 7.57	25.24
26 05 33 13-0137 EA 1-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	108.94 17.21 8.60	28.67
26 05 33 13-0138 EA 2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	123.07 18.92 9.46	31.54
26 05 33 13-0139 EA 2-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	165.26 23.74 11.87	39.57
26 05 33 13-0140 EA 3" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	216.03 32.34 16.17	53.91
26 05 33 13-0141 EA 3-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	269.24 36.47 18.24	60.78
26 05 33 13-0142 EA 4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	311.63 47.48 23.74	79.13
26 05 33 13-0143 EA 5" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	533.79 77.42 38.71	129.02
26 05 33 13-0144 EA 6" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	690.59 116.30 58.15	193.83
26 05 33 13-0145 Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <small>(26 05 33 13-0059)</small> See CSI section 26 05 33 13-2413 for conduit field bending.		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0146	EA	1" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	82.99 13.08 6.54	21.79
26 05 33	13-0147	EA	1-1/4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	98.59 15.14 7.57	25.24
26 05 33	13-0148	EA	1-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	116.45 17.21 8.60	28.67
26 05 33	13-0149	EA	2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	130.92 18.92 9.46	31.54
26 05 33	13-0150	EA	2-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	174.76 23.74 11.87	39.57
26 05 33	13-0151	EA	3" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	232.97 32.34 16.17	53.91
26 05 33	13-0152	EA	3-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	286.23 36.47 18.24	60.78
26 05 33	13-0153	EA	4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	360.51 47.48 23.74	79.13
26 05 33	13-0154	EA	5" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	601.22 77.42 38.71	129.02
26 05 33	13-0155	EA	6" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	748.97 116.30 58.15	193.83
26 05 33	13-0156		Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <small>(26 05 33 13-0059)</small> See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33	13-0157	EA	1" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	87.80 13.08 6.54	21.79
26 05 33	13-0158	EA	1-1/4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	104.03 15.14 7.57	25.24
26 05 33	13-0159	EA	1-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	121.19 17.21 8.60	28.67
26 05 33	13-0160	EA	2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	145.58 18.92 9.46	31.54
26 05 33	13-0161	EA	2-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	192.29 23.74 11.87	39.57
26 05 33	13-0162	EA	3" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	250.04 32.34 16.17	53.91
26 05 33	13-0163	EA	3-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	307.59 36.47 18.24	60.78
26 05 33	13-0164	EA	4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	386.45 47.48 23.74	79.13
26 05 33	13-0165	EA	5" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	622.34 77.42 38.71	129.02
26 05 33	13-0166	EA	6" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	760.79 116.30 58.15	193.83
26 05 33	13-0167		Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <small>(26 05 33 13-0059)</small>		
26 05 33	13-0168	EA	1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.50 3.37 1.69 3.37	5.62
26 05 33	13-0169	EA	3/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.34 3.60 1.80 3.60	6.00
26 05 33	13-0170	EA	1" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.02 4.05 2.03 4.05	6.74
26 05 33	13-0171	EA	1-1/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.75 4.50 2.25 4.50	7.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0172 EA 1-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.78 5.63 2.81 5.63	9.37
26 05 33 13-0173 EA 2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42 6.75 3.38 6.75	11.24
26 05 33 13-0174 EA 2-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.49 7.88 3.94 7.88	13.12
26 05 33 13-0175 EA 3" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.47 9.00 4.50 9.00	14.99
26 05 33 13-0176 EA 3-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.94 10.12 5.06 10.12	14.11
26 05 33 13-0177 EA 4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.32 11.25 5.62 11.25	18.75
26 05 33 13-0178 EA 5" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.89 12.37 6.19 12.37	20.63
26 05 33 13-0179 EA 6" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.49 13.50 6.75 13.50	22.50
26 05 33 13-0180 Rigid Galvanized Steel (RGS) Steel Bushing <small>(26 05 33 13-0059)</small>		
26 05 33 13-0181 EA 1/2" Rigid Galvanized Steel (RGS) Steel Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.88 3.97 1.98 3.97	6.61
26 05 33 13-0182 EA 3/4" Rigid Galvanized Steel (RGS) Steel Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.06 4.23 2.12 4.23	7.06
26 05 33 13-0183 EA 1" Rigid Galvanized Steel (RGS) Steel Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.53 4.77 2.38 4.77	7.94
26 05 33 13-0184 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.68 5.30 2.65 5.30	8.82
26 05 33 13-0185 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.06 6.62 3.31 6.62	11.02
26 05 33 13-0186 EA 2" Rigid Galvanized Steel (RGS) Steel Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.70 7.94 3.97 7.94	13.23
26 05 33 13-0187 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.02 9.26 4.63 9.26	15.43
26 05 33 13-0188 EA 3" Rigid Galvanized Steel (RGS) Steel Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.60 10.59 5.29 10.59	17.65
26 05 33 13-0189 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.78 11.91 5.96 11.91	19.85
26 05 33 13-0190 EA 4" Rigid Galvanized Steel (RGS) Steel Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.51 13.23 6.62 13.23	22.06
26 05 33 13-0191 EA 5" Rigid Galvanized Steel (RGS) Steel Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124.98 14.56 7.28 14.56	24.26
26 05 33 13-0192 EA 6" Rigid Galvanized Steel (RGS) Steel Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	181.97 15.88 7.94 15.88	26.47

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0193		Rigid Galvanized Steel (RGS) Steel Insulated Bushing <small>(26 05 33 13-0059)</small>		
	26 05 33 13-0194	EA	1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	14.64	6.61
			<i>For Work In Restricted Working Space, Add</i>	3.97	
			<i>For Installation Above 14', Add</i>	1.98	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
	26 05 33 13-0195	EA	3/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	16.21	7.06
			<i>For Work In Restricted Working Space, Add</i>	4.23	
			<i>For Installation Above 14', Add</i>	2.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.23	
	26 05 33 13-0196	EA	1" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	18.98	7.94
			<i>For Work In Restricted Working Space, Add</i>	4.77	
			<i>For Installation Above 14', Add</i>	2.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.77	
	26 05 33 13-0197	EA	1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	22.13	8.82
			<i>For Work In Restricted Working Space, Add</i>	5.30	
			<i>For Installation Above 14', Add</i>	2.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
	26 05 33 13-0198	EA	1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	27.61	11.02
			<i>For Work In Restricted Working Space, Add</i>	6.62	
			<i>For Installation Above 14', Add</i>	3.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
	26 05 33 13-0199	EA	2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	34.23	13.23
			<i>For Work In Restricted Working Space, Add</i>	7.94	
			<i>For Installation Above 14', Add</i>	3.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.94	
	26 05 33 13-0200	EA	2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	47.16	15.43
			<i>For Work In Restricted Working Space, Add</i>	9.26	
			<i>For Installation Above 14', Add</i>	4.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	
	26 05 33 13-0201	EA	3" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	55.79	17.65
			<i>For Work In Restricted Working Space, Add</i>	10.59	
			<i>For Installation Above 14', Add</i>	5.29	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.59	
	26 05 33 13-0202	EA	3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	72.12	19.85
			<i>For Work In Restricted Working Space, Add</i>	11.91	
			<i>For Installation Above 14', Add</i>	5.96	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.91	
	26 05 33 13-0203	EA	4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	100.51	22.06
			<i>For Work In Restricted Working Space, Add</i>	13.23	
			<i>For Installation Above 14', Add</i>	6.62	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.23	
	26 05 33 13-0204	EA	5" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	131.51	24.26
			<i>For Work In Restricted Working Space, Add</i>	14.56	
			<i>For Installation Above 14', Add</i>	7.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.56	
	26 05 33 13-0205	EA	6" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	184.27	26.47
			<i>For Work In Restricted Working Space, Add</i>	15.88	
			<i>For Installation Above 14', Add</i>	7.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.88	
26 05 33	13-0206		Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing <small>(26 05 33 13-0059)</small>		
	26 05 33 13-0207	EA	1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	21.58	7.94
			<i>For Work In Restricted Working Space, Add</i>	4.77	
			<i>For Installation Above 14', Add</i>	2.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.77	
	26 05 33 13-0208	EA	3/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	24.15	8.82
			<i>For Work In Restricted Working Space, Add</i>	5.30	
			<i>For Installation Above 14', Add</i>	2.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
	26 05 33 13-0209	EA	1" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	27.52	9.70
			<i>For Work In Restricted Working Space, Add</i>	5.82	
			<i>For Installation Above 14', Add</i>	2.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
	26 05 33 13-0210	EA	1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	32.55	11.02
			<i>For Work In Restricted Working Space, Add</i>	6.62	
			<i>For Installation Above 14', Add</i>	3.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
	26 05 33 13-0211	EA	1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	39.46	13.67
			<i>For Work In Restricted Working Space, Add</i>	8.21	
			<i>For Installation Above 14', Add</i>	4.10	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.21	
	26 05 33 13-0212	EA	2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	49.46	16.33
			<i>For Work In Restricted Working Space, Add</i>	9.79	
			<i>For Installation Above 14', Add</i>	4.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.79	
	26 05 33 13-0213	EA	2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	65.41	18.97
			<i>For Work In Restricted Working Space, Add</i>	11.38	
			<i>For Installation Above 14', Add</i>	5.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.38	
	26 05 33 13-0214	EA	3" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	72.46	22.06
			<i>For Work In Restricted Working Space, Add</i>	13.23	
			<i>For Installation Above 14', Add</i>	6.62	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0215 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	81.87	24.70
<i>For Work In Restricted Working Space, Add</i>	14.82	
<i>For Installation Above 14', Add</i>	7.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.82	
26 05 33 13-0216 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	104.39	27.35
<i>For Work In Restricted Working Space, Add</i>	16.41	
<i>For Installation Above 14', Add</i>	8.21	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.41	
26 05 33 13-0217 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	145.53	30.00
<i>For Work In Restricted Working Space, Add</i>	18.00	
<i>For Installation Above 14', Add</i>	9.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.00	
26 05 33 13-0218 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	198.02	33.08
<i>For Work In Restricted Working Space, Add</i>	19.85	
<i>For Installation Above 14', Add</i>	9.93	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.85	
26 05 33 13-0219 Rigid Galvanized Steel (RGS) Box Connectors With Set Screw <small>(26 05 33 13-0059)</small>		
26 05 33 13-0220 EA 1/2" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	12.65	4.06
<i>For Work In Restricted Working Space, Add</i>	3.02	
<i>For Installation Above 14', Add</i>	1.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.02	
26 05 33 13-0221 EA 3/4" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	15.24	4.68
<i>For Work In Restricted Working Space, Add</i>	3.50	
<i>For Installation Above 14', Add</i>	1.75	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.50	
26 05 33 13-0222 EA 1" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	19.76	5.64
<i>For Work In Restricted Working Space, Add</i>	4.22	
<i>For Installation Above 14', Add</i>	2.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.22	
26 05 33 13-0223 EA 1-1/4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	28.68	6.97
<i>For Work In Restricted Working Space, Add</i>	5.24	
<i>For Installation Above 14', Add</i>	2.62	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.24	
26 05 33 13-0224 EA 1-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	38.78	9.35
<i>For Work In Restricted Working Space, Add</i>	7.02	
<i>For Installation Above 14', Add</i>	3.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.02	
26 05 33 13-0225 EA 2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	65.21	14.03
<i>For Work In Restricted Working Space, Add</i>	10.52	
<i>For Installation Above 14', Add</i>	5.26	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.52	
26 05 33 13-0226 EA 2-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	113.46	15.52
<i>For Work In Restricted Working Space, Add</i>	11.65	
<i>For Installation Above 14', Add</i>	5.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.65	
26 05 33 13-0227 EA 3" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	135.35	18.79
<i>For Work In Restricted Working Space, Add</i>	14.10	
<i>For Installation Above 14', Add</i>	7.05	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.10	
26 05 33 13-0228 EA 3-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	182.24	23.55
<i>For Work In Restricted Working Space, Add</i>	17.66	
<i>For Installation Above 14', Add</i>	8.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.66	
26 05 33 13-0229 EA 4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	213.76	28.23
<i>For Work In Restricted Working Space, Add</i>	21.17	
<i>For Installation Above 14', Add</i>	10.59	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.17	
26 05 33 13-0230 EA 5" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	367.83	31.41
<i>For Work In Restricted Working Space, Add</i>	23.53	
<i>For Installation Above 14', Add</i>	11.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.53	
26 05 33 13-0231 EA 6" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	438.53	35.29
<i>For Work In Restricted Working Space, Add</i>	26.46	
<i>For Installation Above 14', Add</i>	13.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.46	
26 05 33 13-0232 Rigid Galvanized Steel (RGS) Nipples <small>(26 05 33 13-0059)</small>		
26 05 33 13-0233 EA 1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	12.33	5.73
<i>For Work In Restricted Working Space, Add</i>	3.44	
<i>For Installation Above 14', Add</i>	1.72	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.44	
26 05 33 13-0234 EA 3/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	14.19	6.61
<i>For Work In Restricted Working Space, Add</i>	3.97	
<i>For Installation Above 14', Add</i>	1.98	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33 13-0235 EA 1" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	18.11	8.38
<i>For Work In Restricted Working Space, Add</i>	5.03	
<i>For Installation Above 14', Add</i>	2.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0236	EA	1-1/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.11	9.70
			<i>For Work In Restricted Working Space, Add</i>	5.82	
			<i>For Installation Above 14', Add</i>	2.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33	13-0237	EA	1-1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	24.09	11.02
			<i>For Work In Restricted Working Space, Add</i>	6.62	
			<i>For Installation Above 14', Add</i>	3.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33	13-0238	EA	1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	12.40	5.73
			<i>For Work In Restricted Working Space, Add</i>	3.44	
			<i>For Installation Above 14', Add</i>	1.72	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.44	
26 05 33	13-0239	EA	3/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	14.30	6.61
			<i>For Work In Restricted Working Space, Add</i>	3.97	
			<i>For Installation Above 14', Add</i>	1.98	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33	13-0240	EA	1" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	18.22	8.38
			<i>For Work In Restricted Working Space, Add</i>	5.03	
			<i>For Installation Above 14', Add</i>	2.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33	13-0241	EA	1-1/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.28	9.70
			<i>For Work In Restricted Working Space, Add</i>	5.82	
			<i>For Installation Above 14', Add</i>	2.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33	13-0242	EA	1-1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	24.35	11.02
			<i>For Work In Restricted Working Space, Add</i>	6.62	
			<i>For Installation Above 14', Add</i>	3.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33	13-0243	EA	2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	27.47	12.35
			<i>For Work In Restricted Working Space, Add</i>	7.41	
			<i>For Installation Above 14', Add</i>	3.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.41	
26 05 33	13-0244	EA	1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	12.47	5.73
			<i>For Work In Restricted Working Space, Add</i>	3.44	
			<i>For Installation Above 14', Add</i>	1.72	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.44	
26 05 33	13-0245	EA	3/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	14.40	6.61
			<i>For Work In Restricted Working Space, Add</i>	3.97	
			<i>For Installation Above 14', Add</i>	1.98	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33	13-0246	EA	1" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	18.39	8.38
			<i>For Work In Restricted Working Space, Add</i>	5.03	
			<i>For Installation Above 14', Add</i>	2.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33	13-0247	EA	1-1/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.42	9.70
			<i>For Work In Restricted Working Space, Add</i>	5.82	
			<i>For Installation Above 14', Add</i>	2.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33	13-0248	EA	1-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	24.53	11.02
			<i>For Work In Restricted Working Space, Add</i>	6.62	
			<i>For Installation Above 14', Add</i>	3.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33	13-0249	EA	2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	27.90	12.35
			<i>For Work In Restricted Working Space, Add</i>	7.41	
			<i>For Installation Above 14', Add</i>	3.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.41	
26 05 33	13-0250	EA	2-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	36.61	14.99
			<i>For Work In Restricted Working Space, Add</i>	9.00	
			<i>For Installation Above 14', Add</i>	4.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.00	
26 05 33	13-0251	EA	3" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	49.58	20.74
			<i>For Work In Restricted Working Space, Add</i>	12.44	
			<i>For Installation Above 14', Add</i>	6.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.44	
26 05 33	13-0252	EA	1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	12.57	5.73
			<i>For Work In Restricted Working Space, Add</i>	3.44	
			<i>For Installation Above 14', Add</i>	1.72	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.44	
26 05 33	13-0253	EA	3/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	14.45	6.61
			<i>For Work In Restricted Working Space, Add</i>	3.97	
			<i>For Installation Above 14', Add</i>	1.98	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33	13-0254	EA	1" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	18.61	8.38
			<i>For Work In Restricted Working Space, Add</i>	5.03	
			<i>For Installation Above 14', Add</i>	2.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33	13-0255	EA	1-1/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.70	9.70
			<i>For Work In Restricted Working Space, Add</i>	5.82	
			<i>For Installation Above 14', Add</i>	2.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33	13-0256	EA	1-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	24.89	11.02
			<i>For Work In Restricted Working Space, Add</i>	6.62	
			<i>For Installation Above 14', Add</i>	3.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0257 EA 2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.34 7.41 3.71 7.41	12.35
26 05 33 13-0258 EA 2-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.81 9.00 4.50 9.00	14.99
26 05 33 13-0259 EA 3" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.62 12.44 6.22 12.44	20.74
26 05 33 13-0260 EA 1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.66 3.44 1.72 3.44	5.73
26 05 33 13-0261 EA 3/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.62 3.97 1.98 3.97	6.61
26 05 33 13-0262 EA 1" x 4" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.74 5.03 2.51 5.03	8.38
26 05 33 13-0263 EA 1-1/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.83 5.82 2.91 5.82	9.70
26 05 33 13-0264 EA 1-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.14 6.62 3.31 6.62	11.02
26 05 33 13-0265 EA 2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.72 7.41 3.71 7.41	12.35
26 05 33 13-0266 EA 2-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.18 9.00 4.50 9.00	14.99
26 05 33 13-0267 EA 3" x 4" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.39 12.44 6.22 12.44	20.74
26 05 33 13-0268 EA 3-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.84 14.03 7.01 14.03	23.38
26 05 33 13-0269 EA 4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.45 18.26 9.13 18.26	30.44
26 05 33 13-0270 EA 1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.80 3.44 1.72 3.44	5.73
26 05 33 13-0271 EA 3/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.82 3.97 1.98 3.97	6.61
26 05 33 13-0272 EA 1" x 5" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.01 5.03 2.51 5.03	8.38
26 05 33 13-0273 EA 1-1/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.22 5.82 2.91 5.82	9.70
26 05 33 13-0274 EA 1-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.52 6.62 3.31 6.62	11.02
26 05 33 13-0275 EA 2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39 7.41 3.71 7.41	12.35
26 05 33 13-0276 EA 2-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.67 9.00 4.50 9.00	14.99
26 05 33 13-0277 EA 3" x 5" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.01 12.44 6.22 12.44	20.74

26 Electrical

26 05 Common Work Results For Electrical

26 05 33 Raceway And Boxes For Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0278	EA		3-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	60.45	23.38
			<i>For Work In Restricted Working Space, Add</i>	14.03	
			<i>For Installation Above 14', Add</i>	7.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.03	
26 05 33 13-0279	EA		4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	76.79	30.44
			<i>For Work In Restricted Working Space, Add</i>	18.26	
			<i>For Installation Above 14', Add</i>	9.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.26	
26 05 33 13-0280	EA		5" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	114.70	41.90
			<i>For Work In Restricted Working Space, Add</i>	25.14	
			<i>For Installation Above 14', Add</i>	12.57	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.14	
26 05 33 13-0281	EA		6" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	146.04	53.73
			<i>For Work In Restricted Working Space, Add</i>	32.26	
			<i>For Installation Above 14', Add</i>	16.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.26	
26 05 33 13-0282	EA		1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	13.06	5.73
			<i>For Work In Restricted Working Space, Add</i>	3.44	
			<i>For Installation Above 14', Add</i>	1.72	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.44	
26 05 33 13-0283	EA		3/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	15.09	6.61
			<i>For Work In Restricted Working Space, Add</i>	3.97	
			<i>For Installation Above 14', Add</i>	1.98	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33 13-0284	EA		1" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	19.22	8.38
			<i>For Work In Restricted Working Space, Add</i>	5.03	
			<i>For Installation Above 14', Add</i>	2.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-0285	EA		1-1/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	22.57	9.70
			<i>For Work In Restricted Working Space, Add</i>	5.82	
			<i>For Installation Above 14', Add</i>	2.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33 13-0286	EA		1-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	26.31	11.02
			<i>For Work In Restricted Working Space, Add</i>	6.62	
			<i>For Installation Above 14', Add</i>	3.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33 13-0287	EA		2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	30.07	12.35
			<i>For Work In Restricted Working Space, Add</i>	7.41	
			<i>For Installation Above 14', Add</i>	3.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.41	
26 05 33 13-0288	EA		2-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	40.97	14.99
			<i>For Work In Restricted Working Space, Add</i>	9.00	
			<i>For Installation Above 14', Add</i>	4.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.00	
26 05 33 13-0289	EA		3" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	54.65	20.74
			<i>For Work In Restricted Working Space, Add</i>	12.44	
			<i>For Installation Above 14', Add</i>	6.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.44	
26 05 33 13-0290	EA		3-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	62.40	23.38
			<i>For Work In Restricted Working Space, Add</i>	14.03	
			<i>For Installation Above 14', Add</i>	7.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.03	
26 05 33 13-0291	EA		4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	78.65	30.44
			<i>For Work In Restricted Working Space, Add</i>	18.26	
			<i>For Installation Above 14', Add</i>	9.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.26	
26 05 33 13-0292	EA		5" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	117.42	41.90
			<i>For Work In Restricted Working Space, Add</i>	25.14	
			<i>For Installation Above 14', Add</i>	12.57	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.14	
26 05 33 13-0293	EA		6" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	150.02	53.73
			<i>For Work In Restricted Working Space, Add</i>	32.26	
			<i>For Installation Above 14', Add</i>	16.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.26	
26 05 33 13-0294	EA		1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	14.00	5.73
			<i>For Work In Restricted Working Space, Add</i>	3.44	
			<i>For Installation Above 14', Add</i>	1.72	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.44	
26 05 33 13-0295	EA		3/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	16.29	6.61
			<i>For Work In Restricted Working Space, Add</i>	3.97	
			<i>For Installation Above 14', Add</i>	1.98	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33 13-0296	EA		1" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.64	8.38
			<i>For Work In Restricted Working Space, Add</i>	5.03	
			<i>For Installation Above 14', Add</i>	2.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-0297	EA		1-1/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	24.59	9.70
			<i>For Work In Restricted Working Space, Add</i>	5.82	
			<i>For Installation Above 14', Add</i>	2.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33 13-0298	EA		1-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	28.57	11.02
			<i>For Work In Restricted Working Space, Add</i>	6.62	
			<i>For Installation Above 14', Add</i>	3.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0299 EA 2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.44 7.41 3.71 7.41	12.35
26 05 33 13-0300 EA 2-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.43 9.00 4.50 9.00	14.99
26 05 33 13-0301 EA 3" x 8" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.62 12.44 6.22 12.44	20.74
26 05 33 13-0302 EA 3-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.36 14.03 7.01 14.03	23.38
26 05 33 13-0303 EA 4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.02 18.26 9.13 18.26	30.44
26 05 33 13-0304 EA 5" x 8" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.73 25.14 12.57 25.14	41.90
26 05 33 13-0305 EA 6" x 8" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	157.11 32.26 16.13 32.26	53.73
26 05 33 13-0306 EA 1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.64 3.44 1.72 3.44	5.73
26 05 33 13-0307 EA 3/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.91 3.97 1.98 3.97	6.61
26 05 33 13-0308 EA 1" x 10" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.77 5.03 2.51 5.03	8.38
26 05 33 13-0309 EA 1-1/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.94 5.82 2.91 5.82	9.70
26 05 33 13-0310 EA 1-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.89 6.62 3.31 6.62	11.02
26 05 33 13-0311 EA 2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.97 7.41 3.71 7.41	12.35
26 05 33 13-0312 EA 2-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.76 9.00 4.50 9.00	14.99
26 05 33 13-0313 EA 3" x 10" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.74 12.44 6.22 12.44	20.74
26 05 33 13-0314 EA 3-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.48 14.03 7.01 14.03	23.38
26 05 33 13-0315 EA 4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.23 18.26 9.13 18.26	30.44
26 05 33 13-0316 EA 5" x 10" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	130.62 25.14 12.57 25.14	41.90
26 05 33 13-0317 EA 6" x 10" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.50 32.26 16.13 32.26	53.73
26 05 33 13-0318 EA 1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.12 3.44 1.72 3.44	5.73
26 05 33 13-0319 EA 3/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.36 3.97 1.98 3.97	6.61

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0320	EA	1" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	22.45	8.38
			<i>For Work In Restricted Working Space, Add</i>	5.03	
			<i>For Installation Above 14', Add</i>	2.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33	13-0321	EA	1-1/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	27.01	9.70
			<i>For Work In Restricted Working Space, Add</i>	5.82	
			<i>For Installation Above 14', Add</i>	2.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33	13-0322	EA	1-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	30.55	11.02
			<i>For Work In Restricted Working Space, Add</i>	6.62	
			<i>For Installation Above 14', Add</i>	3.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33	13-0323	EA	2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	35.26	12.35
			<i>For Work In Restricted Working Space, Add</i>	7.41	
			<i>For Installation Above 14', Add</i>	3.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.41	
26 05 33	13-0324	EA	2-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	49.49	14.99
			<i>For Work In Restricted Working Space, Add</i>	9.00	
			<i>For Installation Above 14', Add</i>	4.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.00	
26 05 33	13-0325	EA	3" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	66.09	20.74
			<i>For Work In Restricted Working Space, Add</i>	12.44	
			<i>For Installation Above 14', Add</i>	6.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.44	
26 05 33	13-0326	EA	3-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	74.48	23.38
			<i>For Work In Restricted Working Space, Add</i>	14.03	
			<i>For Installation Above 14', Add</i>	7.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.03	
26 05 33	13-0327	EA	4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	93.45	30.44
			<i>For Work In Restricted Working Space, Add</i>	18.26	
			<i>For Installation Above 14', Add</i>	9.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.26	
26 05 33	13-0328	EA	5" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	140.51	41.90
			<i>For Work In Restricted Working Space, Add</i>	25.14	
			<i>For Installation Above 14', Add</i>	12.57	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.14	
26 05 33	13-0329	EA	6" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	176.38	53.73
			<i>For Work In Restricted Working Space, Add</i>	32.26	
			<i>For Installation Above 14', Add</i>	16.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.26	
26 05 33	13-0330		Rigid Galvanized Steel (RGS) Off-Set Nipples <small>(26 05 33 13-0059)</small>		
26 05 33	13-0331	EA	1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple	12.94	4.59
			<i>For Work In Restricted Working Space, Add</i>	3.47	
			<i>For Installation Above 14', Add</i>	1.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.47	
26 05 33	13-0332	EA	3/4" Rigid Galvanized Steel (RGS) Off-Set Nipple	15.26	5.29
			<i>For Work In Restricted Working Space, Add</i>	3.95	
			<i>For Installation Above 14', Add</i>	1.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.95	
26 05 33	13-0333	EA	1" Rigid Galvanized Steel (RGS) Off-Set Nipple	19.23	6.70
			<i>For Work In Restricted Working Space, Add</i>	5.05	
			<i>For Installation Above 14', Add</i>	2.52	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.05	
26 05 33	13-0334	EA	1-1/4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	24.05	8.03
			<i>For Work In Restricted Working Space, Add</i>	6.05	
			<i>For Installation Above 14', Add</i>	3.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.05	
26 05 33	13-0335	EA	1-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	26.33	8.82
			<i>For Work In Restricted Working Space, Add</i>	6.62	
			<i>For Installation Above 14', Add</i>	3.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33	13-0336	EA	2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	33.95	10.85
			<i>For Work In Restricted Working Space, Add</i>	8.16	
			<i>For Installation Above 14', Add</i>	4.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.16	
26 05 33	13-0337	EA	2-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	55.38	17.65
			<i>For Work In Restricted Working Space, Add</i>	13.23	
			<i>For Installation Above 14', Add</i>	6.62	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.23	
26 05 33	13-0338	EA	3" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	86.47	24.35
			<i>For Work In Restricted Working Space, Add</i>	18.26	
			<i>For Installation Above 14', Add</i>	9.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.26	
26 05 33	13-0339	EA	3-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	106.08	28.76
			<i>For Work In Restricted Working Space, Add</i>	21.45	
			<i>For Installation Above 14', Add</i>	10.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.45	
26 05 33	13-0340	EA	4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	126.43	33.17
			<i>For Work In Restricted Working Space, Add</i>	24.88	
			<i>For Installation Above 14', Add</i>	12.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.88	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0341				Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling <small>(26 05 33 13-0059)</small>		
				Note: Erickson fittings.		
26 05 33 13-0342	EA			1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	37.11	14.11
				<i>For Work In Restricted Working Space, Add</i>	10.60	
				<i>For Installation Above 14', Add</i>	5.30	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.60	
26 05 33 13-0343	EA			3/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	41.71	15.79
				<i>For Work In Restricted Working Space, Add</i>	11.83	
				<i>For Installation Above 14', Add</i>	5.91	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.83	
26 05 33 13-0344	EA			1" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	48.14	17.56
				<i>For Work In Restricted Working Space, Add</i>	13.18	
				<i>For Installation Above 14', Add</i>	6.59	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.18	
26 05 33 13-0345	EA			1-1/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	57.04	19.23
				<i>For Work In Restricted Working Space, Add</i>	14.42	
				<i>For Installation Above 14', Add</i>	7.21	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 05 33 13-0346	EA			1-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	63.34	21.00
				<i>For Work In Restricted Working Space, Add</i>	15.78	
				<i>For Installation Above 14', Add</i>	7.89	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.78	
26 05 33 13-0347	EA			2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	78.49	22.76
				<i>For Work In Restricted Working Space, Add</i>	17.09	
				<i>For Installation Above 14', Add</i>	8.54	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.09	
26 05 33 13-0348	EA			2-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	120.47	28.23
				<i>For Work In Restricted Working Space, Add</i>	21.17	
				<i>For Installation Above 14', Add</i>	10.59	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.17	
26 05 33 13-0349	EA			3" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	163.94	35.29
				<i>For Work In Restricted Working Space, Add</i>	26.47	
				<i>For Installation Above 14', Add</i>	13.23	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.47	
26 05 33 13-0350	EA			3-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	232.02	42.34
				<i>For Work In Restricted Working Space, Add</i>	31.77	
				<i>For Installation Above 14', Add</i>	15.89	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.77	
26 05 33 13-0351	EA			4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	262.98	45.87
				<i>For Work In Restricted Working Space, Add</i>	34.40	
				<i>For Installation Above 14', Add</i>	17.20	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.40	
26 05 33 13-0352	EA			5" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	445.53	56.46
				<i>For Work In Restricted Working Space, Add</i>	42.34	
				<i>For Installation Above 14', Add</i>	21.17	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.34	
26 05 33 13-0353	EA			6" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	568.91	65.28
				<i>For Work In Restricted Working Space, Add</i>	48.96	
				<i>For Installation Above 14', Add</i>	24.48	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.96	
26 05 33 13-0354				Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connectors <small>(26 05 33 13-0059)</small>		
26 05 33 13-0355	EA			1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	21.34	7.06
				<i>For Work In Restricted Working Space, Add</i>	5.30	
				<i>For Installation Above 14', Add</i>	2.65	
26 05 33 13-0356	EA			3/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	23.78	7.77
				<i>For Work In Restricted Working Space, Add</i>	5.82	
				<i>For Installation Above 14', Add</i>	2.91	
26 05 33 13-0357	EA			1" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	27.26	8.82
				<i>For Work In Restricted Working Space, Add</i>	6.62	
				<i>For Installation Above 14', Add</i>	3.31	
26 05 33 13-0358	EA			1-1/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	30.68	9.53
				<i>For Work In Restricted Working Space, Add</i>	7.15	
				<i>For Installation Above 14', Add</i>	3.57	
26 05 33 13-0359	EA			1-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	36.04	10.58
				<i>For Work In Restricted Working Space, Add</i>	7.94	
				<i>For Installation Above 14', Add</i>	3.97	
26 05 33 13-0360	EA			2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	43.26	11.65
				<i>For Work In Restricted Working Space, Add</i>	8.73	
				<i>For Installation Above 14', Add</i>	4.37	
26 05 33 13-0361	EA			2-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	57.97	14.11
				<i>For Work In Restricted Working Space, Add</i>	10.59	
				<i>For Installation Above 14', Add</i>	5.29	
26 05 33 13-0362	EA			3" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	71.78	17.65
				<i>For Work In Restricted Working Space, Add</i>	13.23	
				<i>For Installation Above 14', Add</i>	6.62	
26 05 33 13-0363	EA			3-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	86.22	21.18
				<i>For Work In Restricted Working Space, Add</i>	15.88	
				<i>For Installation Above 14', Add</i>	7.94	
26 05 33 13-0364	EA			4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	96.88	22.94
				<i>For Work In Restricted Working Space, Add</i>	17.21	
				<i>For Installation Above 14', Add</i>	8.60	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0365		Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs <small>(26 05 33 13-0059)</small>		
26 05 33	13-0366	EA	1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	19.02	7.94
			<i>For Work In Restricted Working Space, Add</i>	4.77	
			<i>For Installation Above 14', Add</i>	2.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.77	
26 05 33	13-0367	EA	3/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	21.19	8.82
			<i>For Work In Restricted Working Space, Add</i>	5.30	
			<i>For Installation Above 14', Add</i>	2.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
26 05 33	13-0368	EA	1" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	26.21	11.02
			<i>For Work In Restricted Working Space, Add</i>	6.62	
			<i>For Installation Above 14', Add</i>	3.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33	13-0369	EA	1-1/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	32.11	13.23
			<i>For Work In Restricted Working Space, Add</i>	7.94	
			<i>For Installation Above 14', Add</i>	3.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.94	
26 05 33	13-0370	EA	1-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	41.48	17.65
			<i>For Work In Restricted Working Space, Add</i>	10.59	
			<i>For Installation Above 14', Add</i>	5.29	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.59	
26 05 33	13-0371	EA	2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	47.98	19.85
			<i>For Work In Restricted Working Space, Add</i>	11.91	
			<i>For Installation Above 14', Add</i>	5.96	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.91	
26 05 33	13-0372	EA	2-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	58.16	22.06
			<i>For Work In Restricted Working Space, Add</i>	13.23	
			<i>For Installation Above 14', Add</i>	6.62	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.23	
26 05 33	13-0373	EA	3" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	77.61	27.79
			<i>For Work In Restricted Working Space, Add</i>	16.67	
			<i>For Installation Above 14', Add</i>	8.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.67	
26 05 33	13-0374	EA	3-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	92.35	33.52
			<i>For Work In Restricted Working Space, Add</i>	20.12	
			<i>For Installation Above 14', Add</i>	10.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.12	
26 05 33	13-0375	EA	4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	112.76	39.70
			<i>For Work In Restricted Working Space, Add</i>	23.82	
			<i>For Installation Above 14', Add</i>	11.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.82	
26 05 33	13-0376		Rigid Galvanized Steel (RGS) Expansion Fittings, 4" Conduit Movement <small>(26 05 33 13-0059)</small>		
			Note: Type AX		
26 05 33	13-0377	EA	1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	93.62	14.11
			<i>For Work In Restricted Working Space, Add</i>	10.59	
			<i>For Installation Above 14', Add</i>	5.30	
26 05 33	13-0378	EA	3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	106.27	15.89
			<i>For Work In Restricted Working Space, Add</i>	11.91	
			<i>For Installation Above 14', Add</i>	5.96	
26 05 33	13-0379	EA	1" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	126.02	17.65
			<i>For Work In Restricted Working Space, Add</i>	13.24	
			<i>For Installation Above 14', Add</i>	6.62	
26 05 33	13-0380	EA	1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	154.61	19.41
			<i>For Work In Restricted Working Space, Add</i>	14.56	
			<i>For Installation Above 14', Add</i>	7.28	
26 05 33	13-0381	EA	1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	194.70	21.18
			<i>For Work In Restricted Working Space, Add</i>	15.88	
			<i>For Installation Above 14', Add</i>	7.94	
26 05 33	13-0382	EA	2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	270.00	22.94
			<i>For Work In Restricted Working Space, Add</i>	17.20	
			<i>For Installation Above 14', Add</i>	8.60	
26 05 33	13-0383	EA	2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	414.35	28.23
			<i>For Work In Restricted Working Space, Add</i>	21.17	
			<i>For Installation Above 14', Add</i>	10.59	
26 05 33	13-0384	EA	3" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	530.98	35.29
			<i>For Work In Restricted Working Space, Add</i>	26.47	
			<i>For Installation Above 14', Add</i>	13.23	
26 05 33	13-0385	EA	3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	776.36	42.34
			<i>For Work In Restricted Working Space, Add</i>	31.76	
			<i>For Installation Above 14', Add</i>	15.88	
26 05 33	13-0386	EA	4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	827.49	45.87
			<i>For Work In Restricted Working Space, Add</i>	34.40	
			<i>For Installation Above 14', Add</i>	17.20	
26 05 33	13-0387	EA	5" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	1,269.29	56.46
			<i>For Work In Restricted Working Space, Add</i>	42.35	
			<i>For Installation Above 14', Add</i>	21.17	
26 05 33	13-0388	EA	6" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	1,560.12	62.64
			<i>For Work In Restricted Working Space, Add</i>	47.01	
			<i>For Installation Above 14', Add</i>	23.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0389 Rigid Galvanized Steel (RGS) Expansion Fittings, 8" Conduit Movement ^(26 05)		
<small>^{33 13-0059} Note: Type AX-8</small>		
26 05 33 13-0390 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	103.36	14.11
<i>For Work In Restricted Working Space, Add</i>	10.59	
<i>For Installation Above 14', Add</i>	5.30	
26 05 33 13-0391 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	114.91	15.89
<i>For Work In Restricted Working Space, Add</i>	11.91	
<i>For Installation Above 14', Add</i>	5.96	
26 05 33 13-0392 EA 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	139.57	17.65
<i>For Work In Restricted Working Space, Add</i>	13.24	
<i>For Installation Above 14', Add</i>	6.62	
26 05 33 13-0393 EA 1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	175.96	19.41
<i>For Work In Restricted Working Space, Add</i>	14.56	
<i>For Installation Above 14', Add</i>	7.28	
26 05 33 13-0394 EA 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	237.12	21.18
<i>For Work In Restricted Working Space, Add</i>	15.88	
<i>For Installation Above 14', Add</i>	7.94	
26 05 33 13-0395 EA 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	290.26	22.94
<i>For Work In Restricted Working Space, Add</i>	17.20	
<i>For Installation Above 14', Add</i>	8.60	
26 05 33 13-0396 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	545.74	28.23
<i>For Work In Restricted Working Space, Add</i>	21.17	
<i>For Installation Above 14', Add</i>	10.59	
26 05 33 13-0397 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	620.70	35.29
<i>For Work In Restricted Working Space, Add</i>	26.47	
<i>For Installation Above 14', Add</i>	13.23	
26 05 33 13-0398 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	953.66	42.34
<i>For Work In Restricted Working Space, Add</i>	31.76	
<i>For Installation Above 14', Add</i>	15.88	
26 05 33 13-0399 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	1,032.42	45.87
<i>For Work In Restricted Working Space, Add</i>	34.40	
<i>For Installation Above 14', Add</i>	17.20	
26 05 33 13-0400 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	1,442.04	56.46
<i>For Work In Restricted Working Space, Add</i>	42.35	
<i>For Installation Above 14', Add</i>	21.17	
26 05 33 13-0401 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	1,782.38	62.64
<i>For Work In Restricted Working Space, Add</i>	47.01	
<i>For Installation Above 14', Add</i>	23.50	
26 05 33 13-0402 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fittings, 8" Conduit Movement ^(26 05 33 13-0059)		
<small>Note: Type EX</small>		
26 05 33 13-0403 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	117.64	14.11
<i>For Work In Restricted Working Space, Add</i>	10.59	
<i>For Installation Above 14', Add</i>	5.30	
26 05 33 13-0404 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	148.55	15.89
<i>For Work In Restricted Working Space, Add</i>	11.91	
<i>For Installation Above 14', Add</i>	5.96	
26 05 33 13-0405 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	185.02	17.65
<i>For Work In Restricted Working Space, Add</i>	13.24	
<i>For Installation Above 14', Add</i>	6.62	
26 05 33 13-0406 EA 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	225.17	19.41
<i>For Work In Restricted Working Space, Add</i>	14.56	
<i>For Installation Above 14', Add</i>	7.28	
26 05 33 13-0407 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	303.75	21.18
<i>For Work In Restricted Working Space, Add</i>	15.88	
<i>For Installation Above 14', Add</i>	7.94	
26 05 33 13-0408 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	419.03	22.94
<i>For Work In Restricted Working Space, Add</i>	17.20	
<i>For Installation Above 14', Add</i>	8.60	
26 05 33 13-0409 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	651.75	28.23
<i>For Work In Restricted Working Space, Add</i>	21.17	
<i>For Installation Above 14', Add</i>	10.59	
26 05 33 13-0410 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	878.81	35.29
<i>For Work In Restricted Working Space, Add</i>	26.47	
<i>For Installation Above 14', Add</i>	13.23	
26 05 33 13-0411 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,320.78	42.34
<i>For Work In Restricted Working Space, Add</i>	31.76	
<i>For Installation Above 14', Add</i>	15.88	
26 05 33 13-0412 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,366.81	45.87
<i>For Work In Restricted Working Space, Add</i>	34.40	
<i>For Installation Above 14', Add</i>	17.20	
26 05 33 13-0413 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,058.44	56.46
<i>For Work In Restricted Working Space, Add</i>	42.35	
<i>For Installation Above 14', Add</i>	21.17	
26 05 33 13-0414 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,552.68	62.64
<i>For Work In Restricted Working Space, Add</i>	47.01	
<i>For Installation Above 14', Add</i>	23.50	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0415			Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fittings <small>(26 05 33 13-0059)</small> Note: Type DX		
26 05 33 13-0416	EA		1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	205.62	14.11
			<i>For Work In Restricted Working Space, Add</i>	10.59	
			<i>For Installation Above 14', Add</i>	5.30	
26 05 33 13-0417	EA		3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	245.05	15.89
			<i>For Work In Restricted Working Space, Add</i>	11.91	
			<i>For Installation Above 14', Add</i>	5.96	
26 05 33 13-0418	EA		1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	296.37	17.65
			<i>For Work In Restricted Working Space, Add</i>	13.24	
			<i>For Installation Above 14', Add</i>	6.62	
26 05 33 13-0419	EA		1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	348.55	19.41
			<i>For Work In Restricted Working Space, Add</i>	14.56	
			<i>For Installation Above 14', Add</i>	7.28	
26 05 33 13-0420	EA		1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	385.47	21.18
			<i>For Work In Restricted Working Space, Add</i>	15.88	
			<i>For Installation Above 14', Add</i>	7.94	
26 05 33 13-0421	EA		2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	476.73	22.94
			<i>For Work In Restricted Working Space, Add</i>	17.20	
			<i>For Installation Above 14', Add</i>	8.60	
26 05 33 13-0422	EA		2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	630.32	28.23
			<i>For Work In Restricted Working Space, Add</i>	21.17	
			<i>For Installation Above 14', Add</i>	10.59	
26 05 33 13-0423	EA		3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	799.42	35.29
			<i>For Work In Restricted Working Space, Add</i>	26.47	
			<i>For Installation Above 14', Add</i>	13.23	
26 05 33 13-0424	EA		3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	899.23	42.34
			<i>For Work In Restricted Working Space, Add</i>	31.76	
			<i>For Installation Above 14', Add</i>	15.88	
26 05 33 13-0425	EA		4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	1,090.99	45.87
			<i>For Work In Restricted Working Space, Add</i>	34.40	
			<i>For Installation Above 14', Add</i>	17.20	
26 05 33 13-0426	EA		5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	1,868.23	56.46
			<i>For Work In Restricted Working Space, Add</i>	42.35	
			<i>For Installation Above 14', Add</i>	21.17	
26 05 33 13-0427	EA		6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	2,973.32	62.64
			<i>For Work In Restricted Working Space, Add</i>	47.01	
			<i>For Installation Above 14', Add</i>	23.50	
26 05 33 13-0428			Rigid Galvanized Steel (RGS) Conduit Bonding Jumpers <small>(26 05 33 13-0059)</small>		
26 05 33 13-0429	EA		1/2" To 3/4" Conduit, 14" Bonding Jumper	52.77	7.06
			<i>For Work In Restricted Working Space, Add</i>	5.30	
			<i>For Installation Above 14', Add</i>	2.65	
26 05 33 13-0430	EA		1" To 1-1/4" Conduit, 14" Bonding Jumper	60.72	8.82
			<i>For Work In Restricted Working Space, Add</i>	6.62	
			<i>For Installation Above 14', Add</i>	3.31	
26 05 33 13-0431	EA		1-1/2" To 2" Conduit, 14" Bonding Jumper	74.89	10.58
			<i>For Work In Restricted Working Space, Add</i>	7.94	
			<i>For Installation Above 14', Add</i>	3.97	
26 05 33 13-0432	EA		2-1/2" To 3" Conduit, 14" Bonding Jumper	105.26	14.11
			<i>For Work In Restricted Working Space, Add</i>	10.59	
			<i>For Installation Above 14', Add</i>	5.29	
26 05 33 13-0433	EA		3-1/2" To 4" Conduit, 14" Bonding Jumper	159.50	21.18
			<i>For Work In Restricted Working Space, Add</i>	15.88	
			<i>For Installation Above 14', Add</i>	7.94	
26 05 33 13-0434	EA		5" To 6" Conduit, 14" Bonding Jumper	273.04	28.23
			<i>For Work In Restricted Working Space, Add</i>	21.17	
			<i>For Installation Above 14', Add</i>	10.59	
26 05 33 13-0435	EA		1/2" To 3/4" Conduit, 24" Bonding Jumper	58.78	7.06
			<i>For Work In Restricted Working Space, Add</i>	5.30	
			<i>For Installation Above 14', Add</i>	2.65	
26 05 33 13-0436	EA		1" To 1-1/4" Conduit, 24" Bonding Jumper	68.32	8.82
			<i>For Work In Restricted Working Space, Add</i>	6.62	
			<i>For Installation Above 14', Add</i>	3.31	
26 05 33 13-0437	EA		1-1/2" To 2" Conduit, 24" Bonding Jumper	81.85	10.58
			<i>For Work In Restricted Working Space, Add</i>	7.94	
			<i>For Installation Above 14', Add</i>	3.97	
26 05 33 13-0438	EA		2-1/2" To 3" Conduit, 24" Bonding Jumper	114.50	14.11
			<i>For Work In Restricted Working Space, Add</i>	10.59	
			<i>For Installation Above 14', Add</i>	5.29	
26 05 33 13-0439	EA		3-1/2" To 4" Conduit, 24" Bonding Jumper	171.76	21.18
			<i>For Work In Restricted Working Space, Add</i>	15.88	
			<i>For Installation Above 14', Add</i>	7.94	
26 05 33 13-0440	EA		5" To 6" Conduit, 24" Bonding Jumper	312.58	28.23
			<i>For Work In Restricted Working Space, Add</i>	21.17	
			<i>For Installation Above 14', Add</i>	10.59	
26 05 33 13-0441			Rigid Galvanized Steel (RGS) Sealing Fittings, Vertical/Horizontal <small>(26 05 33 13-0059)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0442 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	69.73	22.06
<i>For Work In Restricted Working Space, Add</i>	13.23	
<i>For Installation Above 14', Add</i>	6.62	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.23	
26 05 33 13-0443 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	83.02	26.47
<i>For Work In Restricted Working Space, Add</i>	15.88	
<i>For Installation Above 14', Add</i>	7.94	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.88	
26 05 33 13-0444 EA 1" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	100.42	30.88
<i>For Work In Restricted Working Space, Add</i>	18.53	
<i>For Installation Above 14', Add</i>	9.26	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.53	
26 05 33 13-0445 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	117.53	35.29
<i>For Work In Restricted Working Space, Add</i>	21.17	
<i>For Installation Above 14', Add</i>	10.59	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.17	
26 05 33 13-0446 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	150.10	39.70
<i>For Work In Restricted Working Space, Add</i>	23.82	
<i>For Installation Above 14', Add</i>	11.91	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.82	
26 05 33 13-0447 EA 2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	179.81	44.11
<i>For Work In Restricted Working Space, Add</i>	26.47	
<i>For Installation Above 14', Add</i>	13.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.47	
26 05 33 13-0448 EA 2-1/2" Rigid Galvanized Steel (RGS) Conduit Sealing Fitting, Vertical/Horizontal	248.16	52.94
<i>For Work In Restricted Working Space, Add</i>	31.76	
<i>For Installation Above 14', Add</i>	15.88	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.76	
26 05 33 13-0449 EA 3" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	297.33	61.76
<i>For Work In Restricted Working Space, Add</i>	37.05	
<i>For Installation Above 14', Add</i>	18.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.05	
26 05 33 13-0450 EA 3-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	642.47	70.58
<i>For Work In Restricted Working Space, Add</i>	42.35	
<i>For Installation Above 14', Add</i>	21.17	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.35	
26 05 33 13-0451 EA 4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	739.00	79.41
<i>For Work In Restricted Working Space, Add</i>	47.64	
<i>For Installation Above 14', Add</i>	23.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.64	
26 05 33 13-0452 Rigid Galvanized Steel (RGS) Threaded Couplings <small>(26 05 33 13-0059)</small>		
26 05 33 13-0453 EA 1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	11.51	5.29
<i>For Work In Restricted Working Space, Add</i>	3.17	
<i>For Installation Above 14', Add</i>	1.59	
26 05 33 13-0454 EA 3/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	16.16	7.50
<i>For Work In Restricted Working Space, Add</i>	4.50	
<i>For Installation Above 14', Add</i>	2.25	
26 05 33 13-0455 EA 1" Rigid Galvanized Steel (RGS) Threaded Coupling.....	21.19	9.70
<i>For Work In Restricted Working Space, Add</i>	5.82	
<i>For Installation Above 14', Add</i>	2.91	
26 05 33 13-0456 EA 1-1/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	24.31	11.02
<i>For Work In Restricted Working Space, Add</i>	6.62	
<i>For Installation Above 14', Add</i>	3.31	
26 05 33 13-0457 EA 1-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	29.28	13.23
<i>For Work In Restricted Working Space, Add</i>	7.94	
<i>For Installation Above 14', Add</i>	3.97	
26 05 33 13-0458 EA 2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	34.19	14.99
<i>For Work In Restricted Working Space, Add</i>	9.00	
<i>For Installation Above 14', Add</i>	4.50	
26 05 33 13-0459 EA 2-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	42.93	16.77
<i>For Work In Restricted Working Space, Add</i>	10.06	
<i>For Installation Above 14', Add</i>	5.03	
26 05 33 13-0460 EA 3" Rigid Galvanized Steel (RGS) Threaded Coupling.....	50.16	18.97
<i>For Work In Restricted Working Space, Add</i>	11.38	
<i>For Installation Above 14', Add</i>	5.69	
26 05 33 13-0461 EA 3-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	57.99	20.74
<i>For Work In Restricted Working Space, Add</i>	12.44	
<i>For Installation Above 14', Add</i>	6.22	
26 05 33 13-0462 EA 4" Threaded Rigid Galvanized Steel (RGS) Coupling.....	61.32	22.06
<i>For Work In Restricted Working Space, Add</i>	13.23	
<i>For Installation Above 14', Add</i>	6.62	
26 05 33 13-0463 Rigid Galvanized Steel (RGS) Sealing Locknut <small>(26 05 33 13-0059)</small>		
26 05 33 13-0464 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	2.58	0.88
26 05 33 13-0465 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	3.60	1.32
26 05 33 13-0466 EA 1" Rigid Galvanized Steel (RGS) Sealing Locknut.....	5.98	2.20
26 05 33 13-0467 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	8.62	3.09
26 05 33 13-0468 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	10.29	3.53
26 05 33 13-0469 EA 2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	12.05	3.97

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0470		Rigid Galvanized Steel (RGS) Fire Stop Fittings <small>(26 05 33 13-0059)</small>		
	26 05 33 13-0471	EA	1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting	128.82	10.71
			<i>For Work In Restricted Working Space, Add</i>	8.03	
			<i>For Installation Above 14', Add</i>	4.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.03	
	26 05 33 13-0472	EA	3/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting	131.40	11.74
			<i>For Work In Restricted Working Space, Add</i>	8.81	
			<i>For Installation Above 14', Add</i>	4.40	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.81	
	26 05 33 13-0473	EA	1" Rigid Galvanized Steel (RGS) Fire Stop Fitting	157.04	12.88
			<i>For Work In Restricted Working Space, Add</i>	9.64	
			<i>For Installation Above 14', Add</i>	4.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.64	
	26 05 33 13-0474	EA	1-1/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting	172.41	14.11
			<i>For Work In Restricted Working Space, Add</i>	10.60	
			<i>For Installation Above 14', Add</i>	5.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.60	
	26 05 33 13-0475	EA	1-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting	196.59	15.89
			<i>For Work In Restricted Working Space, Add</i>	11.91	
			<i>For Installation Above 14', Add</i>	5.96	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.91	
	26 05 33 13-0476	EA	2" Rigid Galvanized Steel (RGS) Fire Stop Fitting	287.85	17.65
			<i>For Work In Restricted Working Space, Add</i>	13.24	
			<i>For Installation Above 14', Add</i>	6.62	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.24	
	26 05 33 13-0477	EA	2-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting	333.02	23.55
			<i>For Work In Restricted Working Space, Add</i>	17.66	
			<i>For Installation Above 14', Add</i>	8.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.66	
	26 05 33 13-0478	EA	3" Rigid Galvanized Steel (RGS) Fire Stop Fitting	369.30	25.85
			<i>For Work In Restricted Working Space, Add</i>	19.40	
			<i>For Installation Above 14', Add</i>	9.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.40	
	26 05 33 13-0479	EA	3-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting	428.54	28.23
			<i>For Work In Restricted Working Space, Add</i>	21.18	
			<i>For Installation Above 14', Add</i>	10.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.18	
	26 05 33 13-0480	EA	4" Rigid Galvanized Steel (RGS) Fire Stop Fitting	483.05	31.76
			<i>For Work In Restricted Working Space, Add</i>	23.82	
			<i>For Installation Above 14', Add</i>	11.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.82	
	26 05 33 13-0481	EA	5" Rigid Galvanized Steel (RGS) Fire Stop Fitting	644.18	35.29
			<i>For Work In Restricted Working Space, Add</i>	26.47	
			<i>For Installation Above 14', Add</i>	13.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.47	
	26 05 33 13-0482	EA	6" Rigid Galvanized Steel (RGS) Fire Stop Fitting	798.60	39.17
			<i>For Work In Restricted Working Space, Add</i>	29.38	
			<i>For Installation Above 14', Add</i>	14.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.38	
26 05 33	13-0483		Rigid Galvanized Steel (RGS) Reducing Bushings <small>(26 05 33 13-0059)</small>		
	26 05 33 13-0484	EA	3/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	14.31	6.84
			<i>For Work In Restricted Working Space, Add</i>	4.10	
			<i>For Installation Above 14', Add</i>	2.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.10	
	26 05 33 13-0485	EA	1" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	15.72	7.28
			<i>For Work In Restricted Working Space, Add</i>	4.37	
			<i>For Installation Above 14', Add</i>	2.18	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.37	
	26 05 33 13-0486	EA	1" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	16.16	7.50
			<i>For Work In Restricted Working Space, Add</i>	4.50	
			<i>For Installation Above 14', Add</i>	2.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.50	
	26 05 33 13-0487	EA	1-1/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	18.46	7.72
			<i>For Work In Restricted Working Space, Add</i>	4.63	
			<i>For Installation Above 14', Add</i>	2.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.63	
	26 05 33 13-0488	EA	1-1/4" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	18.92	7.94
			<i>For Work In Restricted Working Space, Add</i>	4.77	
			<i>For Installation Above 14', Add</i>	2.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.77	
	26 05 33 13-0489	EA	1-1/4" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	19.80	8.38
			<i>For Work In Restricted Working Space, Add</i>	5.03	
			<i>For Installation Above 14', Add</i>	2.52	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
	26 05 33 13-0490	EA	1-1/2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	21.32	8.82
			<i>For Work In Restricted Working Space, Add</i>	5.30	
			<i>For Installation Above 14', Add</i>	2.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
	26 05 33 13-0491	EA	1-1/2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	21.76	9.04
			<i>For Work In Restricted Working Space, Add</i>	5.43	
			<i>For Installation Above 14', Add</i>	2.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0492 EA 1-1/2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing.....	22.64	9.48
<i>For Work In Restricted Working Space, Add</i>	5.69	
<i>For Installation Above 14', Add</i>	2.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.69	
26 05 33 13-0493 EA 1-1/2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	23.52	9.92
<i>For Work In Restricted Working Space, Add</i>	5.96	
<i>For Installation Above 14', Add</i>	2.98	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.96	
26 05 33 13-0494 EA 2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	27.91	9.92
<i>For Work In Restricted Working Space, Add</i>	5.96	
<i>For Installation Above 14', Add</i>	2.98	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.96	
26 05 33 13-0495 EA 2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	28.35	10.14
<i>For Work In Restricted Working Space, Add</i>	6.09	
<i>For Installation Above 14', Add</i>	3.04	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 05 33 13-0496 EA 2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing.....	29.24	10.58
<i>For Work In Restricted Working Space, Add</i>	6.35	
<i>For Installation Above 14', Add</i>	3.18	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.35	
26 05 33 13-0497 EA 2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	30.12	11.02
<i>For Work In Restricted Working Space, Add</i>	6.62	
<i>For Installation Above 14', Add</i>	3.31	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33 13-0498 EA 2" x 1-1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	32.32	12.13
<i>For Work In Restricted Working Space, Add</i>	7.28	
<i>For Installation Above 14', Add</i>	3.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.28	
26 05 33 13-0499 EA 2-1/2" x 2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	40.62	14.33
<i>For Work In Restricted Working Space, Add</i>	8.60	
<i>For Installation Above 14', Add</i>	4.30	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.60	
26 05 33 13-0500 Rigid Galvanized Steel (RGS) Locknuts <small>(26 05 33 13-0059)</small>		
26 05 33 13-0501 EA 1/2" Rigid Galvanized Steel (RGS) Locknuts.....	1.82	0.88
<i>For Work In Restricted Working Space, Add</i>	0.53	
<i>For Installation Above 14', Add</i>	0.26	
26 05 33 13-0502 EA 3/4" Rigid Galvanized Steel (RGS) Locknuts.....	2.73	1.32
<i>For Work In Restricted Working Space, Add</i>	0.80	
<i>For Installation Above 14', Add</i>	0.40	
26 05 33 13-0503 EA 1" Rigid Galvanized Steel (RGS) Locknuts.....	4.55	2.20
<i>For Work In Restricted Working Space, Add</i>	1.32	
<i>For Installation Above 14', Add</i>	0.66	
26 05 33 13-0504 EA 1-1/4" Rigid Galvanized Steel (RGS) Locknuts.....	6.39	3.09
<i>For Work In Restricted Working Space, Add</i>	1.85	
<i>For Installation Above 14', Add</i>	0.93	
26 05 33 13-0505 EA 1-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	7.35	3.53
<i>For Work In Restricted Working Space, Add</i>	2.12	
<i>For Installation Above 14', Add</i>	1.06	
26 05 33 13-0506 EA 2" Rigid Galvanized Steel (RGS) Locknuts.....	8.30	3.97
<i>For Work In Restricted Working Space, Add</i>	2.38	
<i>For Installation Above 14', Add</i>	1.19	
26 05 33 13-0507 EA 2-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	11.54	5.29
<i>For Work In Restricted Working Space, Add</i>	3.17	
<i>For Installation Above 14', Add</i>	1.59	
26 05 33 13-0508 EA 3" Rigid Galvanized Steel (RGS) Locknuts.....	14.28	6.61
<i>For Work In Restricted Working Space, Add</i>	3.97	
<i>For Installation Above 14', Add</i>	1.98	
26 05 33 13-0509 EA 3-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	16.74	7.50
<i>For Work In Restricted Working Space, Add</i>	4.50	
<i>For Installation Above 14', Add</i>	2.25	
26 05 33 13-0510 EA 4" Rigid Galvanized Steel (RGS) Locknuts.....	18.79	8.38
<i>For Work In Restricted Working Space, Add</i>	5.03	
<i>For Installation Above 14', Add</i>	2.52	
26 05 33 13-0511 Rigid Galvanized Steel (RGS) Grounding Locknuts <small>(26 05 33 13-0059)</small>		
26 05 33 13-0512 EA 1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	2.64	0.88
<i>For Work In Restricted Working Space, Add</i>	0.53	
<i>For Installation Above 14', Add</i>	0.26	
26 05 33 13-0513 EA 3/4" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	3.70	1.32
<i>For Work In Restricted Working Space, Add</i>	0.80	
<i>For Installation Above 14', Add</i>	0.40	
26 05 33 13-0514 EA 1" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	5.91	2.20
<i>For Work In Restricted Working Space, Add</i>	1.32	
<i>For Installation Above 14', Add</i>	0.66	
26 05 33 13-0515 EA 1-1/4" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	8.26	3.09
<i>For Work In Restricted Working Space, Add</i>	1.85	
<i>For Installation Above 14', Add</i>	0.93	
26 05 33 13-0516 EA 1-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	9.35	3.53
<i>For Work In Restricted Working Space, Add</i>	2.12	
<i>For Installation Above 14', Add</i>	1.06	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0517 EA 2" Rigid Galvanized Steel (RGS) Grounding Locknuts <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	10.92 2.38 1.19	3.97
26 05 33 13-0518 EA 2-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	16.12 3.17 1.59	5.29
26 05 33 13-0519 EA 3" Rigid Galvanized Steel (RGS) Grounding Locknuts <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	20.27 3.97 1.98	6.61
26 05 33 13-0520 EA 3-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	26.41 4.50 2.25	7.50
26 05 33 13-0521 EA 4" Rigid Galvanized Steel (RGS) Grounding Locknuts <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	31.50 5.03 2.52	8.38
26 05 33 13-0522 Rigid Galvanized Steel (RGS) Insulated Ground Bushing <small>(26 05 33 13-0059)</small>		
26 05 33 13-0523 EA 1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	7.48 1.59 0.79	2.65
26 05 33 13-0524 EA 3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	9.43 2.12 1.06	3.53
26 05 33 13-0525 EA 1" Rigid Galvanized Steel (RGS) Insulated Ground Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	12.02 2.65 1.32	4.41
26 05 33 13-0526 EA 1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	17.68 4.23 2.12	7.06
26 05 33 13-0527 EA 1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	19.93 4.77 2.38	7.94
26 05 33 13-0528 EA 2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	22.60 5.30 2.65	8.82
26 05 33 13-0529 EA 2-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	30.75 6.35 3.18	10.58
26 05 33 13-0530 EA 3" Rigid Galvanized Steel (RGS) Insulated Ground Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	37.43 7.94 3.97	13.23
26 05 33 13-0531 EA 3-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	46.61 10.59 5.29	17.65
26 05 33 13-0532 EA 4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	56.90 13.23 6.62	22.06
26 05 33 13-0533 Rigid Galvanized Steel (RGS) Threadless Compression Connectors <small>(26 05 33 13-0059)</small>		
26 05 33 13-0534 EA 1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	17.42 4.77 2.38	7.94
26 05 33 13-0535 EA 3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	20.12 5.30 2.65	8.82
26 05 33 13-0536 EA 1" Rigid Galvanized Steel (RGS) Threadless Compression Connectors <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	25.92 6.62 3.31	11.02
26 05 33 13-0537 EA 1-1/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	33.73 7.94 3.97	13.23
26 05 33 13-0538 EA 1-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	45.34 10.59 5.29	17.65
26 05 33 13-0539 EA 2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	63.40 13.23 6.62	22.06
26 05 33 13-0540 EA 2-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	97.43 15.88 7.94	26.47
26 05 33 13-0541 EA 3" Rigid Galvanized Steel (RGS) Threadless Compression Connectors <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	120.74 18.53 9.26	30.88
26 05 33 13-0542 EA 3-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	152.07 22.50 11.25	37.49
26 05 33 13-0543 EA 4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	182.58 26.47 13.23	44.11
26 05 33 13-0544 Rigid Galvanized Steel (RGS) Compression Coupling <small>(26 05 33 13-0059)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0545 EA 1/2" Rigid Galvanized Steel (RGS) Compression Coupling	24.53	11.02
<i>For Work In Restricted Working Space, Add</i>	6.62	
<i>For Installation Above 14', Add</i>	3.31	
26 05 33 13-0546 EA 3/4" Rigid Galvanized Steel (RGS) Compression Coupling	30.44	13.23
<i>For Work In Restricted Working Space, Add</i>	7.94	
<i>For Installation Above 14', Add</i>	3.97	
26 05 33 13-0547 EA 1" Rigid Galvanized Steel (RGS) Compression Coupling	42.21	17.65
<i>For Work In Restricted Working Space, Add</i>	10.59	
<i>For Installation Above 14', Add</i>	5.29	
26 05 33 13-0548 EA 1-1/4" Rigid Galvanized Steel (RGS) Compression Coupling	54.35	22.06
<i>For Work In Restricted Working Space, Add</i>	13.23	
<i>For Installation Above 14', Add</i>	6.62	
26 05 33 13-0549 EA 1-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	66.28	26.47
<i>For Work In Restricted Working Space, Add</i>	15.88	
<i>For Installation Above 14', Add</i>	7.94	
26 05 33 13-0550 EA 2" Rigid Galvanized Steel (RGS) Compression Connector	90.93	30.88
<i>For Work In Restricted Working Space, Add</i>	18.53	
<i>For Installation Above 14', Add</i>	9.26	
26 05 33 13-0551 EA 2-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	132.01	35.29
<i>For Work In Restricted Working Space, Add</i>	21.17	
<i>For Installation Above 14', Add</i>	10.59	
26 05 33 13-0552 EA 3" Rigid Galvanized Steel (RGS) Compression Coupling	142.26	30.44
<i>For Work In Restricted Working Space, Add</i>	18.26	
<i>For Installation Above 14', Add</i>	9.13	
26 05 33 13-0553 EA 3-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	199.78	46.31
<i>For Work In Restricted Working Space, Add</i>	27.79	
<i>For Installation Above 14', Add</i>	13.89	
26 05 33 13-0554 EA 4" Rigid Galvanized Steel (RGS) Compression Coupling	242.96	52.94
<i>For Work In Restricted Working Space, Add</i>	31.76	
<i>For Installation Above 14', Add</i>	15.88	
26 05 33 13-0555 Zinc Plated Steel Snap-in Knock Out Seal <small>(26 05 33 13-0059)</small>		
26 05 33 13-0556 EA 1/2" Zinc Plated Steel Snap-in Knock Out Seal	4.60	2.20
<i>For Work In Restricted Working Space, Add</i>	1.32	
<i>For Installation Above 14', Add</i>	0.66	
26 05 33 13-0557 EA 3/4" Zinc Plated Steel Snap-in Knock Out Seal	5.53	2.65
<i>For Work In Restricted Working Space, Add</i>	1.59	
<i>For Installation Above 14', Add</i>	0.79	
26 05 33 13-0558 EA 1" Zinc Plated Steel Snap-in Knock Out Seal	6.56	3.09
<i>For Work In Restricted Working Space, Add</i>	1.85	
<i>For Installation Above 14', Add</i>	0.93	
26 05 33 13-0559 EA 1-1/4" Zinc Plated Steel Snap-in Knock Out Seal	8.45	3.97
<i>For Work In Restricted Working Space, Add</i>	2.38	
<i>For Installation Above 14', Add</i>	1.19	
26 05 33 13-0560 EA 1-1/2" Zinc Plated Steel Snap-in Knock Out Seal	9.52	4.41
<i>For Work In Restricted Working Space, Add</i>	2.65	
<i>For Installation Above 14', Add</i>	1.32	
26 05 33 13-0561 EA 2" Zinc Plated Steel Snap-in Knock Out Seal	11.57	5.29
<i>For Work In Restricted Working Space, Add</i>	3.17	
<i>For Installation Above 14', Add</i>	1.59	
26 05 33 13-0562 Zinc Plated Steel 3-Piece Knock Out Seal <small>(26 05 33 13-0059)</small>		
26 05 33 13-0563 EA 1/2" Zinc Plated Steel 3-Piece Knock Out Seal	5.52	2.20
<i>For Work In Restricted Working Space, Add</i>	1.32	
<i>For Installation Above 14', Add</i>	0.66	
26 05 33 13-0564 EA 3/4" Zinc Plated Steel 3-Piece Knock Out Seal	6.58	2.65
<i>For Work In Restricted Working Space, Add</i>	1.59	
<i>For Installation Above 14', Add</i>	0.79	
26 05 33 13-0565 EA 1" Zinc Plated Steel 3-Piece Knock Out Seal	7.95	3.09
<i>For Work In Restricted Working Space, Add</i>	1.85	
<i>For Installation Above 14', Add</i>	0.93	
26 05 33 13-0566 EA 1-1/4" Zinc Plated Steel 3-Piece Knock Out Seal	10.23	3.97
<i>For Work In Restricted Working Space, Add</i>	2.38	
<i>For Installation Above 14', Add</i>	1.19	
26 05 33 13-0567 EA 1-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	12.48	4.41
<i>For Work In Restricted Working Space, Add</i>	2.65	
<i>For Installation Above 14', Add</i>	1.32	
26 05 33 13-0568 EA 2" Zinc Plated Steel 3-Piece Knock Out Seal	15.08	5.29
<i>For Work In Restricted Working Space, Add</i>	3.17	
<i>For Installation Above 14', Add</i>	1.59	
26 05 33 13-0569 EA 2-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	18.53	6.61
<i>For Work In Restricted Working Space, Add</i>	3.97	
<i>For Installation Above 14', Add</i>	1.98	
26 05 33 13-0570 EA 3" Zinc Plated Steel 3-Piece Knock Out Seal	21.61	7.50
<i>For Work In Restricted Working Space, Add</i>	4.50	
<i>For Installation Above 14', Add</i>	2.25	
26 05 33 13-0571 EA 3-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	26.09	8.38
<i>For Work In Restricted Working Space, Add</i>	5.03	
<i>For Installation Above 14', Add</i>	2.52	
26 05 33 13-0572 EA 4" Zinc Plated Steel 3-Piece Knock Out Seal	30.49	9.26
<i>For Work In Restricted Working Space, Add</i>	5.56	
<i>For Installation Above 14', Add</i>	2.78	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0573		Rigid Galvanized Steel (RGS) Chase Nipples (26 05 33 13-0059)		
	26 05 33 13-0574	EA	1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	10.86	5.29
			For Work In Restricted Working Space, Add	3.17	
			For Installation Above 14', Add	1.59	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.17	
	26 05 33 13-0575	EA	3/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	12.82	6.17
			For Work In Restricted Working Space, Add	3.71	
			For Installation Above 14', Add	1.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.71	
	26 05 33 13-0576	EA	1" Rigid Galvanized Steel (RGS) Chase Nipple.....	16.03	7.50
			For Work In Restricted Working Space, Add	4.50	
			For Installation Above 14', Add	2.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.50	
	26 05 33 13-0577	EA	1-1/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	19.45	8.82
			For Work In Restricted Working Space, Add	5.30	
			For Installation Above 14', Add	2.65	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
	26 05 33 13-0578	EA	1-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	24.37	11.02
			For Work In Restricted Working Space, Add	6.62	
			For Installation Above 14', Add	3.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.62	
	26 05 33 13-0579	EA	2" Rigid Galvanized Steel (RGS) Chase Nipple.....	30.22	13.23
			For Work In Restricted Working Space, Add	7.94	
			For Installation Above 14', Add	3.97	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.94	
	26 05 33 13-0580	EA	2-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	38.02	15.43
			For Work In Restricted Working Space, Add	9.26	
			For Installation Above 14', Add	4.63	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.26	
	26 05 33 13-0581	EA	3" Rigid Galvanized Steel (RGS) Chase Nipple.....	42.61	17.65
			For Work In Restricted Working Space, Add	10.59	
			For Installation Above 14', Add	5.29	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.59	
	26 05 33 13-0582	EA	3-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	52.65	19.85
			For Work In Restricted Working Space, Add	11.91	
			For Installation Above 14', Add	5.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.91	
	26 05 33 13-0583	EA	4" Rigid Galvanized Steel (RGS) Chase Nipple.....	71.24	22.06
			For Work In Restricted Working Space, Add	13.23	
			For Installation Above 14', Add	6.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.23	
26 05 33	13-0584		Rigid Galvanized Steel (RGS) Pulling Elbow (26 05 33 13-0059)		
	26 05 33 13-0585	EA	1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	20.81	7.94
			For Work In Restricted Working Space, Add	4.77	
			For Installation Above 14', Add	2.38	
	26 05 33 13-0586	EA	3/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	24.18	9.26
			For Work In Restricted Working Space, Add	5.56	
			For Installation Above 14', Add	2.78	
	26 05 33 13-0587	EA	1" Rigid Galvanized Steel (RGS) Pulling Elbow.....	30.56	10.58
			For Work In Restricted Working Space, Add	6.35	
			For Installation Above 14', Add	3.18	
	26 05 33 13-0588	EA	1-1/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	39.10	13.23
			For Work In Restricted Working Space, Add	7.94	
			For Installation Above 14', Add	3.97	
	26 05 33 13-0589	EA	1-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	51.81	15.89
			For Work In Restricted Working Space, Add	9.53	
			For Installation Above 14', Add	4.76	
	26 05 33 13-0590	EA	2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	68.78	18.53
			For Work In Restricted Working Space, Add	11.12	
			For Installation Above 14', Add	5.56	
	26 05 33 13-0591	EA	2-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	94.72	21.18
			For Work In Restricted Working Space, Add	12.70	
			For Installation Above 14', Add	6.35	
	26 05 33 13-0592	EA	3" Rigid Galvanized Steel (RGS) Pulling Elbow.....	163.91	26.47
			For Work In Restricted Working Space, Add	15.88	
			For Installation Above 14', Add	7.94	
26 05 33	13-0593		Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0058)		
			Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33	13-0594		Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0593)		
			Note: Includes field bending conduit up to and including 1".		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0595 LF 1/2" Electrical Metallic Tubing (EMT) Conduit.....	4.42	1.58
<i>For >250 To 500, Deduct</i>	-0.02	
<i>For >500 To 1,000, Deduct</i>	-0.23	
<i>For >1,000, Deduct</i>	-0.34	
<i>For Installation In Metal Stud Wall, Add</i>	0.40	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	0.99	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.60	
<i>For Work In Restricted Working Space, Add</i>	1.19	
<i>For Installation Above 14', Add</i>	0.60	
<i>For Factory Applied Color Coating, Add</i>	0.14	
26 05 33 13-0596 LF 3/4" Electrical Metallic Tubing (EMT) Conduit.....	5.11	1.76
<i>For >250 To 500, Deduct</i>	-0.04	
<i>For >500 To 1,000, Deduct</i>	-0.27	
<i>For >1,000, Deduct</i>	-0.40	
<i>For Installation In Metal Stud Wall, Add</i>	0.44	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.10	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.66	
<i>For Work In Restricted Working Space, Add</i>	1.32	
<i>For Installation Above 14', Add</i>	0.66	
<i>For Factory Applied Color Coating, Add</i>	0.21	
26 05 33 13-0597 LF 1" Electrical Metallic Tubing (EMT) Conduit.....	6.02	1.94
<i>For >250 To 500, Deduct</i>	-0.06	
<i>For >500 To 1,000, Deduct</i>	-0.33	
<i>For >1,000, Deduct</i>	-0.48	
<i>For Installation In Metal Stud Wall, Add</i>	0.49	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.21	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.73	
<i>For Work In Restricted Working Space, Add</i>	1.46	
<i>For Installation Above 14', Add</i>	0.73	
<i>For Factory Applied Color Coating, Add</i>	0.35	
26 05 33 13-0598 LF 1-1/4" Electrical Metallic Tubing (EMT) Conduit	7.31	2.18
<i>For >250 To 500, Deduct</i>	-0.09	
<i>For >500 To 1,000, Deduct</i>	-0.41	
<i>For >1,000, Deduct</i>	-0.59	
<i>For Installation In Metal Stud Wall, Add</i>	0.55	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.37	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.82	
<i>For Work In Restricted Working Space, Add</i>	1.64	
<i>For Installation Above 14', Add</i>	0.82	
<i>For Factory Applied Color Coating, Add</i>	0.55	
26 05 33 13-0599 LF 1-1/2" Electrical Metallic Tubing (EMT) Conduit	8.47	2.47
<i>For >250 To 500, Deduct</i>	-0.12	
<i>For >500 To 1,000, Deduct</i>	-0.48	
<i>For >1,000, Deduct</i>	-0.69	
<i>For Installation In Metal Stud Wall, Add</i>	0.62	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.54	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.93	
<i>For Work In Restricted Working Space, Add</i>	1.85	
<i>For Installation Above 14', Add</i>	0.93	
<i>For Factory Applied Color Coating, Add</i>	0.69	
26 05 33 13-0600 LF 2" Electrical Metallic Tubing (EMT) Conduit.....	9.78	2.83
<i>For >250 To 500, Deduct</i>	-0.14	
<i>For >500 To 1,000, Deduct</i>	-0.56	
<i>For >1,000, Deduct</i>	-0.80	
<i>For Installation In Metal Stud Wall, Add</i>	0.71	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.77	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.06	
<i>For Work In Restricted Working Space, Add</i>	2.12	
<i>For Installation Above 14', Add</i>	1.06	
<i>For Factory Applied Color Coating, Add</i>	0.82	
26 05 33 13-0601 LF 2-1/2" Electrical Metallic Tubing (EMT) Conduit	12.41	3.36
<i>For >250 To 500, Deduct</i>	-0.20	
<i>For >500 To 1,000, Deduct</i>	-0.72	
<i>For >1,000, Deduct</i>	-1.03	
<i>For Installation In Metal Stud Wall, Add</i>	0.84	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.10	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.26	
<i>For Work In Restricted Working Space, Add</i>	2.51	
<i>For Installation Above 14', Add</i>	1.26	
<i>For Factory Applied Color Coating, Add</i>	1.21	
26 05 33 13-0602 LF 3" Electrical Metallic Tubing (EMT) Conduit.....	14.75	3.88
<i>For >250 To 500, Deduct</i>	-0.25	
<i>For >500 To 1,000, Deduct</i>	-0.86	
<i>For >1,000, Deduct</i>	-1.23	
<i>For Installation In Metal Stud Wall, Add</i>	0.97	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.43	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.46	
<i>For Work In Restricted Working Space, Add</i>	2.91	
<i>For Installation Above 14', Add</i>	1.46	
<i>For Factory Applied Color Coating, Add</i>	1.52	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0603	LF		3-1/2" Electrical Metallic Tubing (EMT) Conduit.....	18.22	4.59
			<i>For >250 To 500, Deduct</i>	-0.34	
			<i>For >500 To 1,000, Deduct</i>	-1.08	
			<i>For >1,000, Deduct</i>	-1.54	
			<i>For Installation In Metal Stud Wall, Add</i>	1.15	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.87	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.72	
			<i>For Work In Restricted Working Space, Add</i>	3.44	
			<i>For Installation Above 14', Add</i>	1.72	
			<i>For Factory Applied Color Coating, Add</i>	2.03	
26 05 33 13-0604	LF		4" Electrical Metallic Tubing (EMT) Conduit.....	23.97	6.82
			<i>For >250 To 500, Deduct</i>	-0.35	
			<i>For >500 To 1,000, Deduct</i>	-1.37	
			<i>For >1,000, Deduct</i>	-1.97	
			<i>For Installation In Metal Stud Wall, Add</i>	1.71	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	4.27	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	2.56	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
			<i>For Installation Above 14', Add</i>	2.56	
			<i>For Factory Applied Color Coating, Add</i>	2.07	
26 05 33 13-0605			Electrical Metallic Tubing (EMT) 90 Degree Elbows <small>(26 05 33 13-0593)</small>		
			See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0606			Electrical Metallic Tubing (EMT) Set Screw Couplings <small>(26 05 33 13-0593)</small>		
26 05 33 13-0607	EA		1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	4.57	2.11
			<i>For Work In Restricted Working Space, Add</i>	1.32	
			<i>For Installation Above 14', Add</i>	0.66	
26 05 33 13-0608	EA		3/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	5.52	2.11
			<i>For Work In Restricted Working Space, Add</i>	1.59	
			<i>For Installation Above 14', Add</i>	0.79	
26 05 33 13-0609	EA		1" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	6.53	2.47
			<i>For Work In Restricted Working Space, Add</i>	1.85	
			<i>For Installation Above 14', Add</i>	0.93	
26 05 33 13-0610	EA		1-1/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	8.72	3.18
			<i>For Work In Restricted Working Space, Add</i>	2.38	
			<i>For Installation Above 14', Add</i>	1.19	
26 05 33 13-0611	EA		1-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	10.74	3.88
			<i>For Work In Restricted Working Space, Add</i>	2.91	
			<i>For Installation Above 14', Add</i>	1.46	
26 05 33 13-0612	EA		2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	14.60	5.29
			<i>For Work In Restricted Working Space, Add</i>	3.97	
			<i>For Installation Above 14', Add</i>	1.98	
26 05 33 13-0613	EA		2-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	20.05	7.06
			<i>For Work In Restricted Working Space, Add</i>	5.30	
			<i>For Installation Above 14', Add</i>	2.65	
26 05 33 13-0614	EA		3" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	25.78	8.12
			<i>For Work In Restricted Working Space, Add</i>	6.62	
			<i>For Installation Above 14', Add</i>	3.31	
26 05 33 13-0615	EA		3-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	29.42	8.82
			<i>For Work In Restricted Working Space, Add</i>	7.94	
			<i>For Installation Above 14', Add</i>	3.97	
26 05 33 13-0616	EA		4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	85.32	24.73
			<i>For Work In Restricted Working Space, Add</i>	24.02	
			<i>For Installation Above 14', Add</i>	12.01	
26 05 33 13-0617			Electrical Metallic Tubing (EMT) Compression Couplings <small>(26 05 33 13-0593)</small>		
26 05 33 13-0618	EA		1/2 Electrical Metallic Tubing (EMT) Compression Coupling	5.68	2.11
			<i>For Work In Restricted Working Space, Add</i>	1.59	
			<i>For Installation Above 14', Add</i>	0.79	
26 05 33 13-0619	EA		3/4" Electrical Metallic Tubing (EMT) Compression Coupling	6.60	2.47
			<i>For Work In Restricted Working Space, Add</i>	1.85	
			<i>For Installation Above 14', Add</i>	0.93	
26 05 33 13-0620	EA		1" Electrical Metallic Tubing (EMT) Compression Coupling.....	9.42	3.53
			<i>For Work In Restricted Working Space, Add</i>	2.65	
			<i>For Installation Above 14', Add</i>	1.32	
26 05 33 13-0621	EA		1-1/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	11.84	4.24
			<i>For Work In Restricted Working Space, Add</i>	3.17	
			<i>For Installation Above 14', Add</i>	1.59	
26 05 33 13-0622	EA		1-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	14.12	4.94
			<i>For Work In Restricted Working Space, Add</i>	3.71	
			<i>For Installation Above 14', Add</i>	1.85	
26 05 33 13-0623	EA		2" Electrical Metallic Tubing (EMT) Compression Coupling.....	18.68	6.35
			<i>For Work In Restricted Working Space, Add</i>	4.77	
			<i>For Installation Above 14', Add</i>	2.38	
26 05 33 13-0624	EA		2-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	28.46	8.47
			<i>For Work In Restricted Working Space, Add</i>	6.35	
			<i>For Installation Above 14', Add</i>	3.18	
26 05 33 13-0625	EA		3" Electrical Metallic Tubing (EMT) Compression Coupling.....	32.97	9.88
			<i>For Work In Restricted Working Space, Add</i>	7.41	
			<i>For Installation Above 14', Add</i>	3.71	
26 05 33 13-0626	EA		3-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	41.23	12.35
			<i>For Work In Restricted Working Space, Add</i>	9.26	
			<i>For Installation Above 14', Add</i>	4.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0627 EA 4" Electrical Metallic Tubing (EMT) Compression Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	52.89 11.91 5.96	15.89
26 05 33 13-0628 Electrical Metallic Tubing (EMT) Straight Box Connectors With Set Screw ^(26 05 33 13-0628)		
26 05 33 13-0629 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.54 1.32 0.66 1.32	1.76
26 05 33 13-0630 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.49 1.59 0.79 1.59	2.11
26 05 33 13-0631 EA 1" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53 1.85 0.93 1.85	2.47
26 05 33 13-0632 EA 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.48 2.65 1.32 2.65	3.53
26 05 33 13-0633 EA 1-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.53 3.17 1.59 3.17	4.24
26 05 33 13-0634 EA 2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.64 3.97 1.98 3.97	5.29
26 05 33 13-0635 EA 2-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.58 5.30 2.65 5.30	7.06
26 05 33 13-0636 EA 3" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.87 6.62 3.31 6.62	8.82
26 05 33 13-0637 EA 3-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.87 7.94 3.97 7.94	10.58
26 05 33 13-0638 EA 4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.13 9.26 4.63 9.26	12.35
26 05 33 13-0639 Electrical Metallic Tubing (EMT) Insulated Straight Box Connectors With Set Screw ^(26 05 33 13-0639)		
26 05 33 13-0640 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.12 1.77 0.89 1.77	2.39
26 05 33 13-0641 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.78 1.93 0.97 1.93	2.56
26 05 33 13-0642 EA 1" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.45 2.36 1.18 2.36	3.18
26 05 33 13-0643 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.05 3.02 1.51 3.02	4.06
26 05 33 13-0644 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.06 3.52 1.76 3.52	4.68
26 05 33 13-0645 EA 2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.93 4.23 2.12 4.23	5.64
26 05 33 13-0646 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.53 5.87 2.94 5.87	7.85
26 05 33 13-0647 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.24 7.84 3.92 7.84	10.41

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0648	EA	3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	42.51	13.41
			<i>For Work In Restricted Working Space, Add</i>	10.08	
			<i>For Installation Above 14', Add</i>	5.04	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.08	
26 05 33	13-0649	EA	4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	53.91	17.65
			<i>For Work In Restricted Working Space, Add</i>	13.23	
			<i>For Installation Above 14', Add</i>	6.62	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.23	
26 05 33	13-0650		Electrical Metallic Tubing (EMT) Straight Box Compression Connectors <small>(26 05 33)</small>		
26 05 33	13-0651	EA	1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	5.49	2.11
			<i>For Work In Restricted Working Space, Add</i>	1.59	
			<i>For Installation Above 14', Add</i>	0.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.59	
26 05 33	13-0652	EA	3/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	6.48	2.47
			<i>For Work In Restricted Working Space, Add</i>	1.85	
			<i>For Installation Above 14', Add</i>	0.93	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.85	
26 05 33	13-0653	EA	1" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	9.26	3.53
			<i>For Work In Restricted Working Space, Add</i>	2.65	
			<i>For Installation Above 14', Add</i>	1.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.65	
26 05 33	13-0654	EA	1-1/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	11.41	4.24
			<i>For Work In Restricted Working Space, Add</i>	3.17	
			<i>For Installation Above 14', Add</i>	1.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.17	
26 05 33	13-0655	EA	1-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	13.52	4.94
			<i>For Work In Restricted Working Space, Add</i>	3.71	
			<i>For Installation Above 14', Add</i>	1.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.71	
26 05 33	13-0656	EA	2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	17.58	6.35
			<i>For Work In Restricted Working Space, Add</i>	4.77	
			<i>For Installation Above 14', Add</i>	2.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.77	
26 05 33	13-0657	EA	2-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	26.27	8.47
			<i>For Work In Restricted Working Space, Add</i>	6.35	
			<i>For Installation Above 14', Add</i>	3.18	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.35	
26 05 33	13-0658	EA	3" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	33.13	10.58
			<i>For Work In Restricted Working Space, Add</i>	7.94	
			<i>For Installation Above 14', Add</i>	3.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.94	
26 05 33	13-0659	EA	3-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	41.14	12.35
			<i>For Work In Restricted Working Space, Add</i>	9.26	
			<i>For Installation Above 14', Add</i>	4.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	
26 05 33	13-0660	EA	4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	46.42	14.11
			<i>For Work In Restricted Working Space, Add</i>	10.59	
			<i>For Installation Above 14', Add</i>	5.29	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.59	
26 05 33	13-0661		Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connectors <small>(26 05 33 13-0659)</small>		
26 05 33	13-0662	EA	1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	6.26	2.39
			<i>For Work In Restricted Working Space, Add</i>	1.77	
			<i>For Installation Above 14', Add</i>	0.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.77	
26 05 33	13-0663	EA	3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	6.92	2.56
			<i>For Work In Restricted Working Space, Add</i>	1.93	
			<i>For Installation Above 14', Add</i>	0.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.93	
26 05 33	13-0664	EA	1" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	8.57	3.18
			<i>For Work In Restricted Working Space, Add</i>	2.36	
			<i>For Installation Above 14', Add</i>	1.18	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.36	
26 05 33	13-0665	EA	1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	11.40	4.06
			<i>For Work In Restricted Working Space, Add</i>	3.02	
			<i>For Installation Above 14', Add</i>	1.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.02	
26 05 33	13-0666	EA	1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	13.64	4.68
			<i>For Work In Restricted Working Space, Add</i>	3.52	
			<i>For Installation Above 14', Add</i>	1.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.52	
26 05 33	13-0667	EA	2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	16.77	5.64
			<i>For Work In Restricted Working Space, Add</i>	4.23	
			<i>For Installation Above 14', Add</i>	2.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.23	
26 05 33	13-0668	EA	2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	28.60	7.85
			<i>For Work In Restricted Working Space, Add</i>	5.87	
			<i>For Installation Above 14', Add</i>	2.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0669 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	38.40	10.41
<i>For Work In Restricted Working Space, Add</i>	7.84	
<i>For Installation Above 14', Add</i>	3.92	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.84	
26 05 33 13-0670 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	51.55	13.41
<i>For Work In Restricted Working Space, Add</i>	10.08	
<i>For Installation Above 14', Add</i>	5.04	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.08	
26 05 33 13-0671 EA 4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	65.10	17.65
<i>For Work In Restricted Working Space, Add</i>	13.23	
<i>For Installation Above 14', Add</i>	6.62	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.23	
26 05 33 13-0672 Electrical Metallic Tubing (EMT) Expansion Coupling <small>(26 05 33 13-0593)</small>		
Note: Excludes jumper.		
26 05 33 13-0673 EA 1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	43.59	11.74
<i>For Work In Restricted Working Space, Add</i>	8.81	
<i>For Installation Above 14', Add</i>	4.40	
26 05 33 13-0674 EA 3/4" Electrical Metallic Tubing (EMT) Expansion Coupling	52.57	14.20
<i>For Work In Restricted Working Space, Add</i>	10.68	
<i>For Installation Above 14', Add</i>	5.34	
26 05 33 13-0675 EA 1" Electrical Metallic Tubing (EMT) Expansion Coupling	64.76	17.82
<i>For Work In Restricted Working Space, Add</i>	13.35	
<i>For Installation Above 14', Add</i>	6.67	
26 05 33 13-0676 EA 1-1/4" Electrical Metallic Tubing (EMT) Expansion Coupling	83.13	21.88
<i>For Work In Restricted Working Space, Add</i>	16.42	
<i>For Installation Above 14', Add</i>	8.21	
26 05 33 13-0677 EA 1-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	102.45	25.68
<i>For Work In Restricted Working Space, Add</i>	19.25	
<i>For Installation Above 14', Add</i>	9.63	
26 05 33 13-0678 EA 2" Electrical Metallic Tubing (EMT) Expansion Coupling	127.92	31.23
<i>For Work In Restricted Working Space, Add</i>	23.45	
<i>For Installation Above 14', Add</i>	11.72	
26 05 33 13-0679 EA 2-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	233.59	40.14
<i>For Work In Restricted Working Space, Add</i>	30.11	
<i>For Installation Above 14', Add</i>	15.06	
26 05 33 13-0680 EA 3" Electrical Metallic Tubing (EMT) Expansion Coupling	284.52	46.93
<i>For Work In Restricted Working Space, Add</i>	35.21	
<i>For Installation Above 14', Add</i>	17.61	
26 05 33 13-0681 EA 3-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	345.92	51.17
<i>For Work In Restricted Working Space, Add</i>	38.39	
<i>For Installation Above 14', Add</i>	19.19	
26 05 33 13-0682 EA 4" Electrical Metallic Tubing (EMT) Expansion Coupling	375.00	56.46
<i>For Work In Restricted Working Space, Add</i>	42.36	
<i>For Installation Above 14', Add</i>	21.18	
26 05 33 13-0683 Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapters <small>(26 05 33 13-0593)</small>		
26 05 33 13-0684 EA 1/2" To 3/8" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	8.70	3.18
<i>For Work In Restricted Working Space, Add</i>	2.35	
<i>For Installation Above 14', Add</i>	1.18	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.35	
26 05 33 13-0685 EA 1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	9.16	3.18
<i>For Work In Restricted Working Space, Add</i>	2.35	
<i>For Installation Above 14', Add</i>	1.18	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.35	
26 05 33 13-0686 EA 3/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	10.23	3.44
<i>For Work In Restricted Working Space, Add</i>	2.61	
<i>For Installation Above 14', Add</i>	1.31	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.61	
26 05 33 13-0687 EA 1" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	11.86	3.97
<i>For Work In Restricted Working Space, Add</i>	2.97	
<i>For Installation Above 14', Add</i>	1.49	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.97	
26 05 33 13-0688 EA 1-1/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	16.40	4.76
<i>For Work In Restricted Working Space, Add</i>	3.59	
<i>For Installation Above 14', Add</i>	1.80	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.59	
26 05 33 13-0689 EA 1-1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	19.84	5.47
<i>For Work In Restricted Working Space, Add</i>	4.11	
<i>For Installation Above 14', Add</i>	2.05	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.11	
26 05 33 13-0690 EA 2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	25.69	6.89
<i>For Work In Restricted Working Space, Add</i>	5.14	
<i>For Installation Above 14', Add</i>	2.57	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.14	
26 05 33 13-0691 Electrical Metallic Tubing (EMT) Pulling Elbows <small>(26 05 33 13-0593)</small>		
26 05 33 13-0692 EA 1/2" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	18.12	7.94
<i>For Work In Restricted Working Space, Add</i>	4.77	
<i>For Installation Above 14', Add</i>	2.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.77	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0693 EA 3/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	21.12	9.26
For Work In Restricted Working Space, Add	5.56	
For Installation Above 14', Add	2.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.56	
26 05 33 13-0694 EA 1" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	25.80	10.58
For Work In Restricted Working Space, Add	6.35	
For Installation Above 14', Add	3.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.35	
26 05 33 13-0695 EA 1-1/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	32.83	13.23
For Work In Restricted Working Space, Add	7.94	
For Installation Above 14', Add	3.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.94	
26 05 33 13-0696 Intermediate Metal Conduit (IMC) <small>(26 05 33 13-0058)</small>		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0697 Intermediate Metal Conduit (IMC) Conduit <small>(26 05 33 13-0696)</small>		
Note: Includes field bending conduit up to 1".		
26 05 33 13-0698 LF 1/2" Intermediate Metal Conduit (IMC) Conduit	5.64	1.76
For >250 To 500, Deduct	-0.06	
For >500 To 1,000, Deduct	-0.09	
For >1,000, Deduct	-0.12	
For Installation In Metal Stud Wall, Add	0.44	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.10	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.66	
For Work In Restricted Working Space, Add	1.32	
For Installation Above 14', Add	0.66	
26 05 33 13-0699 LF 3/4" Intermediate Metal Conduit (IMC) Conduit	6.31	1.94
For >250 To 500, Deduct	-0.07	
For >500 To 1,000, Deduct	-0.11	
For >1,000, Deduct	-0.15	
For Installation In Metal Stud Wall, Add	0.49	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.21	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.73	
For Work In Restricted Working Space, Add	1.46	
For Installation Above 14', Add	0.73	
26 05 33 13-0700 LF 1" Intermediate Metal Conduit (IMC) Conduit	7.55	2.11
For >250 To 500, Deduct	-0.11	
For >500 To 1,000, Deduct	-0.17	
For >1,000, Deduct	-0.23	
For Installation In Metal Stud Wall, Add	0.53	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.32	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.79	
For Work In Restricted Working Space, Add	1.59	
For Installation Above 14', Add	0.79	
26 05 33 13-0701 LF 1-1/4" Intermediate Metal Conduit (IMC) Conduit	9.03	4.24
For >250 To 500, Deduct	-0.14	
For >500 To 1,000, Deduct	-0.21	
For >1,000, Deduct	-0.29	
For Installation In Metal Stud Wall, Add	0.62	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.54	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.93	
For Work In Restricted Working Space, Add	1.85	
For Installation Above 14', Add	0.93	
26 05 33 13-0702 LF 1-1/2" Intermediate Metal Conduit (IMC) Conduit	10.44	2.83
For >250 To 500, Deduct	-0.17	
For >500 To 1,000, Deduct	-0.25	
For >1,000, Deduct	-0.34	
For Installation In Metal Stud Wall, Add	0.71	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.77	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.06	
For Work In Restricted Working Space, Add	2.12	
For Installation Above 14', Add	1.06	
26 05 33 13-0703 LF 2" Intermediate Metal Conduit (IMC) Conduit	12.52	3.18
For >250 To 500, Deduct	-0.23	
For >500 To 1,000, Deduct	-0.34	
For >1,000, Deduct	-0.46	
For Installation In Metal Stud Wall, Add	0.79	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.99	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.19	
For Work In Restricted Working Space, Add	2.38	
For Installation Above 14', Add	1.19	
26 05 33 13-0704 LF 2-1/2" Intermediate Metal Conduit (IMC) Conduit	20.73	4.24
For >250 To 500, Deduct	-0.51	
For >500 To 1,000, Deduct	-0.76	
For >1,000, Deduct	-1.02	
For Installation In Metal Stud Wall, Add	1.06	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.65	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.59	
For Work In Restricted Working Space, Add	3.17	
For Installation Above 14', Add	1.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0705 LF 3" Intermediate Metal Conduit (IMC) Conduit	25.72	5.29
For >250 To 500, Deduct	-0.62	
For >500 To 1,000, Deduct	-0.94	
For >1,000, Deduct	-1.25	
For Installation In Metal Stub Wall, Add	1.32	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.31	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.98	
For Work In Restricted Working Space, Add	3.97	
For Installation Above 14', Add	1.98	
26 05 33 13-0706 LF 3-1/2" Intermediate Metal Conduit (IMC) Conduit	30.36	6.35
For >250 To 500, Deduct	-0.72	
For >500 To 1,000, Deduct	-1.09	
For >1,000, Deduct	-1.45	
For Installation In Metal Stub Wall, Add	1.59	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.97	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.38	
For Work In Restricted Working Space, Add	4.77	
For Installation Above 14', Add	2.38	
26 05 33 13-0707 LF 4" Intermediate Metal Conduit (IMC) Conduit	35.56	7.41
For >250 To 500, Deduct	-0.85	
For >500 To 1,000, Deduct	-1.28	
For >1,000, Deduct	-1.70	
For Installation In Metal Stub Wall, Add	1.85	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.63	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.78	
For Work In Restricted Working Space, Add	5.56	
For Installation Above 14', Add	2.78	
26 05 33 13-0708 Intermediate Metal Conduit (IMC) 90 Degree Elbows <small>(26 05 33 13-0696)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0709 EA 1" Intermediate Metal Conduit (IMC) 90 Degree Elbow	43.60	13.32
For Work In Restricted Working Space, Add	9.96	
For Installation Above 14', Add	4.98	
26 05 33 13-0710 EA 1-1/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	53.14	15.43
For Work In Restricted Working Space, Add	11.57	
For Installation Above 14', Add	5.79	
26 05 33 13-0711 EA 1-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	62.70	17.73
For Work In Restricted Working Space, Add	13.28	
For Installation Above 14', Add	6.64	
26 05 33 13-0712 EA 2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	75.22	19.49
For Work In Restricted Working Space, Add	14.61	
For Installation Above 14', Add	7.30	
26 05 33 13-0713 EA 2-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	105.91	24.35
For Work In Restricted Working Space, Add	18.26	
For Installation Above 14', Add	9.13	
26 05 33 13-0714 EA 3" Intermediate Metal Conduit (IMC) 90 Degree Elbow	151.87	33.17
For Work In Restricted Working Space, Add	24.88	
For Installation Above 14', Add	12.44	
26 05 33 13-0715 EA 3-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	215.26	37.40
For Work In Restricted Working Space, Add	28.06	
For Installation Above 14', Add	14.03	
26 05 33 13-0716 EA 4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	262.93	48.70
For Work In Restricted Working Space, Add	36.52	
For Installation Above 14', Add	18.26	
26 05 33 13-0717 Intermediate Metal Conduit (IMC) Bushing Sets With Locknut <small>(26 05 33 13-0696)</small>		
26 05 33 13-0718 EA 1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	11.93	4.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.44	
26 05 33 13-0719 EA 3/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	14.00	0.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.97	
26 05 33 13-0720 EA 1" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	18.06	6.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.03	
26 05 33 13-0721 EA 1-1/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	22.00	8.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-0722 EA 1-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	24.50	8.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.62	
26 05 33 13-0723 EA 2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	31.38	10.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 05 33 13-0724 EA 2-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	56.68	17.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.24	
26 05 33 13-0725 EA 3" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	71.15	23.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.00	
26 05 33 13-0726 EA 3-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	91.65	28.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.44	
26 05 33 13-0727 EA 4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	107.89	33.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.88	
26 05 33 13-0728 Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fittings <small>(26 05 33 13-0696)</small>		
Note: 3-Piece coupling.		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0729	EA	1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	38.82	14.11
			<i>For Work In Restricted Working Space, Add</i>	10.60	
			<i>For Installation Above 14', Add</i>	5.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.60	
26 05 33	13-0730	EA	3/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	43.93	15.79
			<i>For Work In Restricted Working Space, Add</i>	11.83	
			<i>For Installation Above 14', Add</i>	5.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.83	
26 05 33	13-0731	EA	1" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	52.61	17.56
			<i>For Work In Restricted Working Space, Add</i>	13.18	
			<i>For Installation Above 14', Add</i>	6.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.18	
26 05 33	13-0732	EA	1-1/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	64.03	19.23
			<i>For Work In Restricted Working Space, Add</i>	14.42	
			<i>For Installation Above 14', Add</i>	7.21	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 05 33	13-0733	EA	1-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	72.62	21.00
			<i>For Work In Restricted Working Space, Add</i>	15.78	
			<i>For Installation Above 14', Add</i>	7.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.78	
26 05 33	13-0734	EA	2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	97.02	22.76
			<i>For Work In Restricted Working Space, Add</i>	17.09	
			<i>For Installation Above 14', Add</i>	8.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.09	
26 05 33	13-0735	EA	2-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	156.29	28.23
			<i>For Work In Restricted Working Space, Add</i>	21.17	
			<i>For Installation Above 14', Add</i>	10.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.17	
26 05 33	13-0736	EA	3" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	218.93	35.29
			<i>For Work In Restricted Working Space, Add</i>	26.47	
			<i>For Installation Above 14', Add</i>	13.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.47	
26 05 33	13-0737	EA	3-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	315.89	42.34
			<i>For Work In Restricted Working Space, Add</i>	31.77	
			<i>For Installation Above 14', Add</i>	15.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.77	
26 05 33	13-0738	EA	4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	363.23	45.87
			<i>For Work In Restricted Working Space, Add</i>	34.40	
			<i>For Installation Above 14', Add</i>	17.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.40	
26 05 33	13-0739		Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connectors <small>(26 05 33 13-0696)</small>		
26 05 33	13-0740	EA	1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	21.45	7.06
			<i>For Work In Restricted Working Space, Add</i>	5.30	
			<i>For Installation Above 14', Add</i>	2.65	
26 05 33	13-0741	EA	3/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	23.91	7.77
			<i>For Work In Restricted Working Space, Add</i>	5.82	
			<i>For Installation Above 14', Add</i>	2.91	
26 05 33	13-0742	EA	1" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	27.42	8.82
			<i>For Work In Restricted Working Space, Add</i>	6.62	
			<i>For Installation Above 14', Add</i>	3.31	
26 05 33	13-0743	EA	1-1/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	30.89	9.53
			<i>For Work In Restricted Working Space, Add</i>	7.15	
			<i>For Installation Above 14', Add</i>	3.57	
26 05 33	13-0744	EA	1-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	36.33	10.58
			<i>For Work In Restricted Working Space, Add</i>	7.94	
			<i>For Installation Above 14', Add</i>	3.97	
26 05 33	13-0745	EA	2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	43.68	11.65
			<i>For Work In Restricted Working Space, Add</i>	8.73	
			<i>For Installation Above 14', Add</i>	4.37	
26 05 33	13-0746	EA	2-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	58.65	14.11
			<i>For Work In Restricted Working Space, Add</i>	10.59	
			<i>For Installation Above 14', Add</i>	5.29	
26 05 33	13-0747	EA	3" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	72.61	17.65
			<i>For Work In Restricted Working Space, Add</i>	13.23	
			<i>For Installation Above 14', Add</i>	6.62	
26 05 33	13-0748	EA	3-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	87.22	21.18
			<i>For Work In Restricted Working Space, Add</i>	15.88	
			<i>For Installation Above 14', Add</i>	7.94	
26 05 33	13-0749	EA	4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	98.06	22.94
			<i>For Work In Restricted Working Space, Add</i>	17.21	
			<i>For Installation Above 14', Add</i>	8.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0750 Intermediate Metal Conduit (IMC) Rain Tight Threaded Hubs <small>(26 05 33 13-0696)</small>		
26 05 33 13-0751 EA 1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	19.24	7.06
For Work In Restricted Working Space, Add	5.30	
For Installation Above 14', Add	2.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-0752 EA 3/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	24.44	8.82
For Work In Restricted Working Space, Add	6.62	
For Installation Above 14', Add	3.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.62	
26 05 33 13-0753 EA 1" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	29.98	10.58
For Work In Restricted Working Space, Add	7.94	
For Installation Above 14', Add	3.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.94	
26 05 33 13-0754 EA 1-1/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	35.85	12.35
For Work In Restricted Working Space, Add	9.26	
For Installation Above 14', Add	4.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.26	
26 05 33 13-0755 EA 1-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	41.70	14.11
For Work In Restricted Working Space, Add	10.59	
For Installation Above 14', Add	5.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.59	
26 05 33 13-0756 EA 2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	48.96	15.89
For Work In Restricted Working Space, Add	11.91	
For Installation Above 14', Add	5.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.91	
26 05 33 13-0757 EA 2-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	59.62	17.65
For Work In Restricted Working Space, Add	13.23	
For Installation Above 14', Add	6.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.23	
26 05 33 13-0758 EA 3" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	69.41	19.41
For Work In Restricted Working Space, Add	14.56	
For Installation Above 14', Add	7.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.56	
26 05 33 13-0759 EA 3-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	84.43	22.94
For Work In Restricted Working Space, Add	17.21	
For Installation Above 14', Add	8.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.21	
26 05 33 13-0760 EA 4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	95.93	24.70
For Work In Restricted Working Space, Add	18.53	
For Installation Above 14', Add	9.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.53	
26 05 33 13-0761 Intermediate Metal Conduit (IMC) Expansion Fittings <small>(26 05 33 13-0696)</small>		
26 05 33 13-0762 EA 1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	103.87	14.11
For Work In Restricted Working Space, Add	10.59	
For Installation Above 14', Add	5.30	
26 05 33 13-0763 EA 3/4" Intermediate Metal Conduit (IMC) Expansion Fitting	115.13	15.89
For Work In Restricted Working Space, Add	11.91	
For Installation Above 14', Add	5.96	
26 05 33 13-0764 EA 1" Intermediate Metal Conduit (IMC) Expansion Fitting	127.94	17.65
For Work In Restricted Working Space, Add	13.24	
For Installation Above 14', Add	6.62	
26 05 33 13-0765 EA 1-1/4" Intermediate Metal Conduit (IMC) Expansion Fitting	153.10	19.41
For Work In Restricted Working Space, Add	14.56	
For Installation Above 14', Add	7.28	
26 05 33 13-0766 EA 1-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	185.57	21.18
For Work In Restricted Working Space, Add	15.88	
For Installation Above 14', Add	7.94	
26 05 33 13-0767 EA 2" Intermediate Metal Conduit (IMC) Expansion Fitting	240.25	22.94
For Work In Restricted Working Space, Add	17.20	
For Installation Above 14', Add	8.60	
26 05 33 13-0768 EA 2-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	357.88	28.23
For Work In Restricted Working Space, Add	21.17	
For Installation Above 14', Add	10.59	
26 05 33 13-0769 EA 3" Intermediate Metal Conduit (IMC) Expansion Fitting	431.28	35.29
For Work In Restricted Working Space, Add	26.47	
For Installation Above 14', Add	13.23	
26 05 33 13-0770 EA 3-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	595.96	42.34
For Work In Restricted Working Space, Add	31.76	
For Installation Above 14', Add	15.88	
26 05 33 13-0771 EA 4" Intermediate Metal Conduit (IMC) Expansion Fitting	686.87	45.87
For Work In Restricted Working Space, Add	34.40	
For Installation Above 14', Add	17.20	
26 05 33 13-0772 Intermediate Metal Conduit (IMC) Sealing Fittings, Vertical/Horizontal <small>(26 05 33 13-0696)</small>		
26 05 33 13-0773 EA 1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	70.50	22.06
For Work In Restricted Working Space, Add	13.23	
For Installation Above 14', Add	6.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.23	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0774	EA		3/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	83.93	26.47
			<i>For Work In Restricted Working Space, Add</i>	15.88	
			<i>For Installation Above 14', Add</i>	7.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.88	
26 05 33 13-0775	EA		1" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	101.59	30.88
			<i>For Work In Restricted Working Space, Add</i>	18.53	
			<i>For Installation Above 14', Add</i>	9.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.53	
26 05 33 13-0776	EA		1-1/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	118.94	35.29
			<i>For Work In Restricted Working Space, Add</i>	21.17	
			<i>For Installation Above 14', Add</i>	10.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.17	
26 05 33 13-0777	EA		1-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	152.22	39.70
			<i>For Work In Restricted Working Space, Add</i>	23.82	
			<i>For Installation Above 14', Add</i>	11.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.82	
26 05 33 13-0778	EA		2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	182.56	44.11
			<i>For Work In Restricted Working Space, Add</i>	26.47	
			<i>For Installation Above 14', Add</i>	13.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.47	
26 05 33 13-0779	EA		2-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	252.43	52.94
			<i>For Work In Restricted Working Space, Add</i>	31.76	
			<i>For Installation Above 14', Add</i>	15.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.76	
26 05 33 13-0780	EA		3" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	302.55	61.76
			<i>For Work In Restricted Working Space, Add</i>	37.05	
			<i>For Installation Above 14', Add</i>	18.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.05	
26 05 33 13-0781	EA		3-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	657.52	70.58
			<i>For Work In Restricted Working Space, Add</i>	42.35	
			<i>For Installation Above 14', Add</i>	21.17	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.35	
26 05 33 13-0782	EA		4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	756.42	79.41
			<i>For Work In Restricted Working Space, Add</i>	47.64	
			<i>For Installation Above 14', Add</i>	23.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.64	
26 05 33 13-0783			Intermediate Metal Conduit (IMC) Threaded Couplings <small>(26 05 33 13-0696)</small>		
26 05 33 13-0784	EA		1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	11.48	4.24
			<i>For Work In Restricted Working Space, Add</i>	3.17	
			<i>For Installation Above 14', Add</i>	1.59	
26 05 33 13-0785	EA		3/4" Intermediate Metal Conduit (IMC) Threaded Coupling	16.09	6.00
			<i>For Work In Restricted Working Space, Add</i>	4.50	
			<i>For Installation Above 14', Add</i>	2.25	
26 05 33 13-0786	EA		1" Intermediate Metal Conduit (IMC) Threaded Coupling	21.02	7.77
			<i>For Work In Restricted Working Space, Add</i>	5.82	
			<i>For Installation Above 14', Add</i>	2.91	
26 05 33 13-0787	EA		1-1/4" Intermediate Metal Conduit (IMC) Threaded Coupling	24.10	8.82
			<i>For Work In Restricted Working Space, Add</i>	6.62	
			<i>For Installation Above 14', Add</i>	3.31	
26 05 33 13-0788	EA		1-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	29.03	10.58
			<i>For Work In Restricted Working Space, Add</i>	7.94	
			<i>For Installation Above 14', Add</i>	3.97	
26 05 33 13-0789	EA		2" Intermediate Metal Conduit (IMC) Threaded Coupling	33.40	12.00
			<i>For Work In Restricted Working Space, Add</i>	9.00	
			<i>For Installation Above 14', Add</i>	4.50	
26 05 33 13-0790	EA		2-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	41.01	13.41
			<i>For Work In Restricted Working Space, Add</i>	10.05	
			<i>For Installation Above 14', Add</i>	5.03	
26 05 33 13-0791	EA		3" Intermediate Metal Conduit (IMC) Threaded Coupling	48.18	15.17
			<i>For Work In Restricted Working Space, Add</i>	11.38	
			<i>For Installation Above 14', Add</i>	5.69	
26 05 33 13-0792	EA		3-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	55.17	16.59
			<i>For Work In Restricted Working Space, Add</i>	12.44	
			<i>For Installation Above 14', Add</i>	6.22	
26 05 33 13-0793	EA		4" Intermediate Metal Conduit (IMC) Threaded Coupling	57.90	17.65
			<i>For Work In Restricted Working Space, Add</i>	13.23	
			<i>For Installation Above 14', Add</i>	6.62	
26 05 33 13-0794			Intermediate Metal Conduit (IMC) Reducer Bushings <small>(26 05 33 13-0696)</small>		
26 05 33 13-0795	EA		1/2" To 3/4" Intermediate Metal Conduit (IMC) Reducing Bushing	5.42	1.76
			<i>For Work In Restricted Working Space, Add</i>	1.32	
			<i>For Installation Above 14', Add</i>	0.66	
26 05 33 13-0796	EA		3/4" To 1" Intermediate Metal Conduit (IMC) Reducing Bushing	6.00	1.76
			<i>For Work In Restricted Working Space, Add</i>	1.32	
			<i>For Installation Above 14', Add</i>	0.66	
26 05 33 13-0797			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit <small>(26 05 33 13-0058)</small>		
			Note: 40 mil polyvinyl chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney). Used in hazardous locations. Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0798 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit <small>(26 05 33 13-0797)</small> Note: Includes field bending for conduit up to 1".		
26 05 33 13-0799 LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	11.78	2.47
For >250 To 500, Deduct	-0.43	
For >500 To 1,000, Deduct	-0.73	
For >1,000, Deduct	-1.02	
For Installation Above 14', Add	0.93	
For Work In Restricted Working Space, Add	1.85	
26 05 33 13-0800 LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	13.55	2.83
For >250 To 500, Deduct	-0.50	
For >500 To 1,000, Deduct	-0.84	
For >1,000, Deduct	-1.18	
For Installation Above 14', Add	1.06	
For Work In Restricted Working Space, Add	2.12	
26 05 33 13-0801 LF 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	17.23	3.53
For >250 To 500, Deduct	-0.64	
For >500 To 1,000, Deduct	-1.07	
For >1,000, Deduct	-1.50	
For Installation Above 14', Add	1.32	
For Work In Restricted Working Space, Add	2.65	
26 05 33 13-0802 LF 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	21.24	4.24
For >250 To 500, Deduct	-0.80	
For >500 To 1,000, Deduct	-1.33	
For >1,000, Deduct	-1.86	
For Installation Above 14', Add	1.59	
For Work In Restricted Working Space, Add	3.17	
26 05 33 13-0803 LF 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	26.19	5.29
For >250 To 500, Deduct	-0.98	
For >500 To 1,000, Deduct	-1.63	
For >1,000, Deduct	-2.29	
For Installation Above 14', Add	1.98	
For Work In Restricted Working Space, Add	3.97	
26 05 33 13-0804 LF 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	32.78	6.35
For >250 To 500, Deduct	-1.24	
For >500 To 1,000, Deduct	-2.06	
For >1,000, Deduct	-2.88	
For Installation Above 14', Add	2.38	
For Work In Restricted Working Space, Add	4.77	
26 05 33 13-0805 LF 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	44.14	7.41
For >250 To 500, Deduct	-1.74	
For >500 To 1,000, Deduct	-2.85	
For >1,000, Deduct	-3.95	
For Installation Above 14', Add	2.78	
For Work In Restricted Working Space, Add	5.56	
26 05 33 13-0806 LF 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	55.24	9.17
For >250 To 500, Deduct	-2.19	
For >500 To 1,000, Deduct	-3.57	
For >1,000, Deduct	-4.95	
For Installation Above 14', Add	3.44	
For Work In Restricted Working Space, Add	6.88	
26 05 33 13-0807 LF 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	67.74	11.29
For >250 To 500, Deduct	-2.68	
For >500 To 1,000, Deduct	-4.37	
For >1,000, Deduct	-6.07	
For Installation Above 14', Add	4.23	
For Work In Restricted Working Space, Add	8.47	
26 05 33 13-0808 LF 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	80.09	13.41
For >250 To 500, Deduct	-3.17	
For >500 To 1,000, Deduct	-5.17	
For >1,000, Deduct	-7.17	
For Installation Above 14', Add	5.03	
For Work In Restricted Working Space, Add	10.06	
26 05 33 13-0809 LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	122.23	15.89
For >250 To 500, Deduct	-5.12	
For >500 To 1,000, Deduct	-8.17	
For >1,000, Deduct	-11.23	
For Installation Above 14', Add	5.96	
For Work In Restricted Working Space, Add	11.91	
26 05 33 13-0810 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	166.04	21.18
For >250 To 500, Deduct	-6.98	
For >500 To 1,000, Deduct	-11.13	
For >1,000, Deduct	-15.28	
For Installation Above 14', Add	7.94	
For Work In Restricted Working Space, Add	15.88	
26 05 33 13-0811 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings <small>(26 05 33 13-0797)</small>		
26 05 33 13-0812 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	16.50	5.29
For Installation Above 14', Add	1.59	
For Work In Restricted Working Space, Add	3.17	
26 05 33 13-0813 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	21.19	7.50
For Installation Above 14', Add	2.25	
For Work In Restricted Working Space, Add	4.50	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0814	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	27.46	9.70
			<i>For Installation Above 14', Add</i>	2.91	
			<i>For Work In Restricted Working Space, Add</i>	5.82	
26 05 33 13-0815	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	31.45	11.02
			<i>For Installation Above 14', Add</i>	3.31	
			<i>For Work In Restricted Working Space, Add</i>	6.62	
26 05 33 13-0816	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	37.63	13.23
			<i>For Installation Above 14', Add</i>	3.97	
			<i>For Work In Restricted Working Space, Add</i>	7.94	
26 05 33 13-0817	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	46.34	14.99
			<i>For Installation Above 14', Add</i>	4.50	
			<i>For Work In Restricted Working Space, Add</i>	9.00	
26 05 33 13-0818	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	73.96	14.99
			<i>For Installation Above 14', Add</i>	5.03	
			<i>For Work In Restricted Working Space, Add</i>	10.06	
26 05 33 13-0819	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	87.04	20.74
			<i>For Installation Above 14', Add</i>	5.69	
			<i>For Work In Restricted Working Space, Add</i>	11.38	
26 05 33 13-0820	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	104.47	20.74
			<i>For Installation Above 14', Add</i>	6.22	
			<i>For Work In Restricted Working Space, Add</i>	12.44	
26 05 33 13-0821	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	117.78	22.06
			<i>For Installation Above 14', Add</i>	6.62	
			<i>For Work In Restricted Working Space, Add</i>	13.23	
26 05 33 13-0822	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	293.00	26.47
			<i>For Installation Above 14', Add</i>	7.94	
			<i>For Work In Restricted Working Space, Add</i>	15.88	
26 05 33 13-0823	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	329.92	30.88
			<i>For Installation Above 14', Add</i>	9.26	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-0824			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows <small>(26 05 33 13-0797)</small>		
			Note: 90, 45, or 30 degree.		
26 05 33 13-0825	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	49.42	14.33
			<i>For Installation Above 14', Add</i>	4.30	
			<i>For Work In Restricted Working Space, Add</i>	8.60	
26 05 33 13-0826	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	57.10	17.78
			<i>For Installation Above 14', Add</i>	5.33	
			<i>For Work In Restricted Working Space, Add</i>	10.67	
26 05 33 13-0827	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	68.29	21.79
			<i>For Installation Above 14', Add</i>	6.54	
			<i>For Work In Restricted Working Space, Add</i>	13.08	
26 05 33 13-0828	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	80.81	25.24
			<i>For Installation Above 14', Add</i>	7.57	
			<i>For Work In Restricted Working Space, Add</i>	15.14	
26 05 33 13-0829	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	94.65	28.67
			<i>For Installation Above 14', Add</i>	8.60	
			<i>For Work In Restricted Working Space, Add</i>	17.21	
26 05 33 13-0830	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	115.14	31.54
			<i>For Installation Above 14', Add</i>	9.46	
			<i>For Work In Restricted Working Space, Add</i>	18.92	
26 05 33 13-0831	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	177.21	39.57
			<i>For Installation Above 14', Add</i>	11.87	
			<i>For Work In Restricted Working Space, Add</i>	23.74	
26 05 33 13-0832	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	264.54	53.91
			<i>For Installation Above 14', Add</i>	16.17	
			<i>For Work In Restricted Working Space, Add</i>	32.34	
26 05 33 13-0833	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	327.22	60.78
			<i>For Installation Above 14', Add</i>	18.24	
			<i>For Work In Restricted Working Space, Add</i>	36.47	
26 05 33 13-0834	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	375.66	79.13
			<i>For Installation Above 14', Add</i>	23.74	
			<i>For Work In Restricted Working Space, Add</i>	47.48	
26 05 33 13-0835	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	781.93	129.02
			<i>For Installation Above 14', Add</i>	38.71	
			<i>For Work In Restricted Working Space, Add</i>	77.42	
26 05 33 13-0836	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	1,229.75	193.83
			<i>For Installation Above 14', Add</i>	58.15	
			<i>For Work In Restricted Working Space, Add</i>	116.30	
26 05 33 13-0837			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-0838	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	117.19	21.79
			<i>For Installation Above 14', Add</i>	6.54	
			<i>For Work In Restricted Working Space, Add</i>	13.08	
26 05 33 13-0839	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	131.87	25.24
			<i>For Installation Above 14', Add</i>	7.57	
			<i>For Work In Restricted Working Space, Add</i>	15.14	
26 05 33 13-0840	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	150.55	28.67
			<i>For Installation Above 14', Add</i>	8.60	
			<i>For Work In Restricted Working Space, Add</i>	17.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0841 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	179.63 9.46 18.92	31.54
26 05 33 13-0842 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	250.21 11.87 23.74	39.57
26 05 33 13-0843 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-0844 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	130.41 6.54 13.08	21.79
26 05 33 13-0845 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	153.72 7.57 15.14	25.24
26 05 33 13-0846 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	166.21 8.60 17.21	28.67
26 05 33 13-0847 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	213.80 9.46 18.92	31.54
26 05 33 13-0848 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	283.15 11.87 23.74	39.57
26 05 33 13-0849 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	362.24 16.17 32.34	53.91
26 05 33 13-0850 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-0851 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	146.23 6.54 13.08	21.79
26 05 33 13-0852 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	165.10 7.57 15.14	25.24
26 05 33 13-0853 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	186.31 8.60 17.21	28.67
26 05 33 13-0854 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	225.13 9.46 18.92	31.54
26 05 33 13-0855 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	321.01 11.87 23.74	39.57
26 05 33 13-0856 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	406.68 16.17 32.34	53.91
26 05 33 13-0857 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	513.35 18.24 36.47	60.78
26 05 33 13-0858 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	578.44 23.74 47.48	79.13
26 05 33 13-0859 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-0860 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	173.54 6.54 13.08	21.79
26 05 33 13-0861 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	191.81 7.57 15.14	25.24
26 05 33 13-0862 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	216.65 8.60 17.21	28.67
26 05 33 13-0863 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	268.81 9.46 18.92	31.54
26 05 33 13-0864 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	388.76 11.87 23.74	39.57
26 05 33 13-0865 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	481.98 16.17 32.34	53.91
26 05 33 13-0866 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	559.33 18.24 36.47	60.78
26 05 33 13-0867 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	662.84 23.74 47.48	79.13

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0868 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-0869 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	194.79	21.79
For Installation Above 14', Add	6.54	
For Work In Restricted Working Space, Add	13.08	
26 05 33 13-0870 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	216.68	25.24
For Installation Above 14', Add	7.57	
For Work In Restricted Working Space, Add	15.14	
26 05 33 13-0871 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	246.50	28.67
For Installation Above 14', Add	8.60	
For Work In Restricted Working Space, Add	17.21	
26 05 33 13-0872 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	306.83	31.54
For Installation Above 14', Add	9.46	
For Work In Restricted Working Space, Add	18.92	
26 05 33 13-0873 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	425.73	39.57
For Installation Above 14', Add	11.87	
For Work In Restricted Working Space, Add	23.74	
26 05 33 13-0874 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	542.21	53.91
For Installation Above 14', Add	16.17	
For Work In Restricted Working Space, Add	32.34	
26 05 33 13-0875 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	671.11	60.78
For Installation Above 14', Add	18.24	
For Work In Restricted Working Space, Add	36.47	
26 05 33 13-0876 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	740.32	79.13
For Installation Above 14', Add	23.74	
For Work In Restricted Working Space, Add	47.48	
26 05 33 13-0877 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	1,234.26	129.02
For Installation Above 14', Add	38.71	
For Work In Restricted Working Space, Add	77.42	
26 05 33 13-0878 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-0879 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	222.58	21.79
For Installation Above 14', Add	6.54	
For Work In Restricted Working Space, Add	13.08	
26 05 33 13-0880 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	246.72	25.24
For Installation Above 14', Add	7.57	
For Work In Restricted Working Space, Add	15.14	
26 05 33 13-0881 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	279.22	28.67
For Installation Above 14', Add	8.60	
For Work In Restricted Working Space, Add	17.21	
26 05 33 13-0882 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	348.99	31.54
For Installation Above 14', Add	9.46	
For Work In Restricted Working Space, Add	18.92	
26 05 33 13-0883 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	487.32	39.57
For Installation Above 14', Add	11.87	
For Work In Restricted Working Space, Add	23.74	
26 05 33 13-0884 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	618.95	53.91
For Installation Above 14', Add	16.17	
For Work In Restricted Working Space, Add	32.34	
26 05 33 13-0885 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	727.13	60.78
For Installation Above 14', Add	18.24	
For Work In Restricted Working Space, Add	36.47	
26 05 33 13-0886 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	840.35	79.13
For Installation Above 14', Add	23.74	
For Work In Restricted Working Space, Add	47.48	
26 05 33 13-0887 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	1,304.36	129.02
For Installation Above 14', Add	38.71	
For Work In Restricted Working Space, Add	77.42	
26 05 33 13-0888 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	1,783.66	193.83
For Installation Above 14', Add	58.15	
For Work In Restricted Working Space, Add	116.30	
26 05 33 13-0889 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-0890 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	261.27	21.79
For Installation Above 14', Add	6.54	
For Work In Restricted Working Space, Add	13.08	
26 05 33 13-0891 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	273.51	25.24
For Installation Above 14', Add	7.57	
For Work In Restricted Working Space, Add	15.14	
26 05 33 13-0892 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	323.02	28.67
For Installation Above 14', Add	8.60	
For Work In Restricted Working Space, Add	17.21	
26 05 33 13-0893 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	407.69	31.54
For Installation Above 14', Add	9.46	
For Work In Restricted Working Space, Add	18.92	
26 05 33 13-0894 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	570.38	39.57
For Installation Above 14', Add	11.87	
For Work In Restricted Working Space, Add	23.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0895 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	722.40	53.91
<i>For Installation Above 14', Add</i>	16.17	
<i>For Work In Restricted Working Space, Add</i>	32.34	
26 05 33 13-0896 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	882.85	60.78
<i>For Installation Above 14', Add</i>	18.24	
<i>For Work In Restricted Working Space, Add</i>	36.47	
26 05 33 13-0897 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,034.93	79.13
<i>For Installation Above 14', Add</i>	23.74	
<i>For Work In Restricted Working Space, Add</i>	47.48	
26 05 33 13-0898 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,533.01	129.02
<i>For Installation Above 14', Add</i>	38.71	
<i>For Work In Restricted Working Space, Add</i>	77.42	
26 05 33 13-0899 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,888.61	193.83
<i>For Installation Above 14', Add</i>	58.15	
<i>For Work In Restricted Working Space, Add</i>	116.30	
26 05 33 13-0900 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-0901 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	270.59	21.79
<i>For Installation Above 14', Add</i>	6.54	
<i>For Work In Restricted Working Space, Add</i>	13.08	
26 05 33 13-0902 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	318.81	25.24
<i>For Installation Above 14', Add</i>	7.57	
<i>For Work In Restricted Working Space, Add</i>	15.14	
26 05 33 13-0903 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	360.89	28.67
<i>For Installation Above 14', Add</i>	8.60	
<i>For Work In Restricted Working Space, Add</i>	17.21	
26 05 33 13-0904 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	425.35	31.54
<i>For Installation Above 14', Add</i>	9.46	
<i>For Work In Restricted Working Space, Add</i>	18.92	
26 05 33 13-0905 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	591.13	39.57
<i>For Installation Above 14', Add</i>	11.87	
<i>For Work In Restricted Working Space, Add</i>	23.74	
26 05 33 13-0906 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	754.21	53.91
<i>For Installation Above 14', Add</i>	16.17	
<i>For Work In Restricted Working Space, Add</i>	32.34	
26 05 33 13-0907 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	967.66	60.78
<i>For Installation Above 14', Add</i>	18.24	
<i>For Work In Restricted Working Space, Add</i>	36.47	
26 05 33 13-0908 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,079.06	79.13
<i>For Installation Above 14', Add</i>	23.74	
<i>For Work In Restricted Working Space, Add</i>	47.48	
26 05 33 13-0909 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,594.44	129.02
<i>For Installation Above 14', Add</i>	38.71	
<i>For Work In Restricted Working Space, Add</i>	77.42	
26 05 33 13-0910 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,941.94	193.83
<i>For Installation Above 14', Add</i>	58.15	
<i>For Work In Restricted Working Space, Add</i>	116.30	
26 05 33 13-0911 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fittings <small>(26 05 33 13-0797)</small>		
26 05 33 13-0912 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fitting.....	98.43	14.33
<i>For Installation Above 14', Add</i>	4.30	
<i>For Work In Restricted Working Space, Add</i>	8.60	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.60	
26 05 33 13-0913 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fitting.....	120.11	18.92
<i>For Installation Above 14', Add</i>	5.68	
<i>For Work In Restricted Working Space, Add</i>	11.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.35	
26 05 33 13-0914 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fitting.....	161.08	21.79
<i>For Installation Above 14', Add</i>	6.54	
<i>For Work In Restricted Working Space, Add</i>	13.08	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.08	
26 05 33 13-0915 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fitting.....	267.40	25.24
<i>For Installation Above 14', Add</i>	7.57	
<i>For Work In Restricted Working Space, Add</i>	15.14	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.14	
26 05 33 13-0916 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fitting.....	295.04	28.67
<i>For Installation Above 14', Add</i>	8.60	
<i>For Work In Restricted Working Space, Add</i>	17.21	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.21	
26 05 33 13-0917 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fitting.....	374.05	31.54
<i>For Installation Above 14', Add</i>	9.46	
<i>For Work In Restricted Working Space, Add</i>	18.92	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.92	
26 05 33 13-0918 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fitting.....	1,031.71	39.57
<i>For Installation Above 14', Add</i>	11.87	
<i>For Work In Restricted Working Space, Add</i>	23.74	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.74	

26 Electrical

26 05 Common Work Results For Electrical

26 05 33 Raceway And Boxes For Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0919	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,229.59	53.91
			<i>For Installation Above 14', Add</i>	16.17	
			<i>For Work In Restricted Working Space, Add</i>	32.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.35	
26 05 33 13-0920	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,631.71	79.13
			<i>For Installation Above 14', Add</i>	23.74	
			<i>For Work In Restricted Working Space, Add</i>	47.48	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.48	
26 05 33 13-0921 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fittings ^(26 05 33 13-0797)					
26 05 33 13-0922	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	94.19	14.33
			<i>For Installation Above 14', Add</i>	4.30	
			<i>For Work In Restricted Working Space, Add</i>	8.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.60	
26 05 33 13-0923	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	115.32	18.92
			<i>For Installation Above 14', Add</i>	5.68	
			<i>For Work In Restricted Working Space, Add</i>	11.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.35	
26 05 33 13-0924	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	161.08	21.79
			<i>For Installation Above 14', Add</i>	6.54	
			<i>For Work In Restricted Working Space, Add</i>	13.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.08	
26 05 33 13-0925	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	264.93	25.24
			<i>For Installation Above 14', Add</i>	7.57	
			<i>For Work In Restricted Working Space, Add</i>	15.14	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.14	
26 05 33 13-0926	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	285.09	28.67
			<i>For Installation Above 14', Add</i>	8.60	
			<i>For Work In Restricted Working Space, Add</i>	17.21	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.21	
26 05 33 13-0927	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	374.17	31.54
			<i>For Installation Above 14', Add</i>	9.46	
			<i>For Work In Restricted Working Space, Add</i>	18.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.92	
26 05 33 13-0928	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	989.29	39.57
			<i>For Installation Above 14', Add</i>	11.87	
			<i>For Work In Restricted Working Space, Add</i>	23.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.74	
26 05 33 13-0929	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,198.64	53.91
			<i>For Installation Above 14', Add</i>	16.17	
			<i>For Work In Restricted Working Space, Add</i>	32.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.35	
26 05 33 13-0930	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,631.64	79.13
			<i>For Installation Above 14', Add</i>	23.74	
			<i>For Work In Restricted Working Space, Add</i>	47.48	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.48	
26 05 33 13-0931 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fittings ^(26 05 33 13-0797)					
26 05 33 13-0932	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	84.80	14.33
			<i>For Installation Above 14', Add</i>	4.30	
			<i>For Work In Restricted Working Space, Add</i>	8.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.60	
26 05 33 13-0933	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	101.06	18.92
			<i>For Installation Above 14', Add</i>	5.68	
			<i>For Work In Restricted Working Space, Add</i>	11.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.35	
26 05 33 13-0934	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	119.42	21.79
			<i>For Installation Above 14', Add</i>	6.54	
			<i>For Work In Restricted Working Space, Add</i>	13.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.08	
26 05 33 13-0935	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	171.18	25.24
			<i>For Installation Above 14', Add</i>	7.57	
			<i>For Work In Restricted Working Space, Add</i>	15.14	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.14	
26 05 33 13-0936	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	200.19	28.67
			<i>For Installation Above 14', Add</i>	8.60	
			<i>For Work In Restricted Working Space, Add</i>	17.21	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.21	
26 05 33 13-0937	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	312.82	31.54
			<i>For Installation Above 14', Add</i>	9.46	
			<i>For Work In Restricted Working Space, Add</i>	18.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.92	
26 05 33 13-0938	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	871.13	39.57
			<i>For Installation Above 14', Add</i>	11.87	
			<i>For Work In Restricted Working Space, Add</i>	23.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0939 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	977.94	53.91
<i>For Installation Above 14', Add</i>	16.17	
<i>For Work In Restricted Working Space, Add</i>	32.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.35	
26 05 33 13-0940 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	1,246.01	79.13
<i>For Installation Above 14', Add</i>	23.74	
<i>For Work In Restricted Working Space, Add</i>	47.48	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.48	
26 05 33 13-0941 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fittings <small>(26 05 33 13-0797)</small>		
26 05 33 13-0942 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	147.62	14.33
<i>For Installation Above 14', Add</i>	4.30	
<i>For Work In Restricted Working Space, Add</i>	8.60	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.60	
26 05 33 13-0943 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	223.23	18.92
<i>For Installation Above 14', Add</i>	5.68	
<i>For Work In Restricted Working Space, Add</i>	11.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.35	
26 05 33 13-0944 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	281.20	21.79
<i>For Installation Above 14', Add</i>	6.54	
<i>For Work In Restricted Working Space, Add</i>	13.08	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.08	
26 05 33 13-0945 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	324.56	25.24
<i>For Installation Above 14', Add</i>	7.57	
<i>For Work In Restricted Working Space, Add</i>	15.14	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.14	
26 05 33 13-0946 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	368.61	28.67
<i>For Installation Above 14', Add</i>	8.60	
<i>For Work In Restricted Working Space, Add</i>	17.21	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.21	
26 05 33 13-0947 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	486.80	31.54
<i>For Installation Above 14', Add</i>	9.46	
<i>For Work In Restricted Working Space, Add</i>	18.92	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.92	
26 05 33 13-0948 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,548.20	39.57
<i>For Installation Above 14', Add</i>	11.87	
<i>For Work In Restricted Working Space, Add</i>	23.74	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.74	
26 05 33 13-0949 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,805.61	53.91
<i>For Installation Above 14', Add</i>	16.17	
<i>For Work In Restricted Working Space, Add</i>	32.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.35	
26 05 33 13-0950 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	2,216.50	79.13
<i>For Installation Above 14', Add</i>	23.74	
<i>For Work In Restricted Working Space, Add</i>	47.48	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.48	
26 05 33 13-0951 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fittings <small>(26 05 33 13-0797)</small>		
26 05 33 13-0952 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	164.29	14.33
<i>For Installation Above 14', Add</i>	4.30	
<i>For Work In Restricted Working Space, Add</i>	8.60	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.60	
26 05 33 13-0953 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	238.97	18.92
<i>For Installation Above 14', Add</i>	5.68	
<i>For Work In Restricted Working Space, Add</i>	11.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.35	
26 05 33 13-0954 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	284.20	21.79
<i>For Installation Above 14', Add</i>	6.54	
<i>For Work In Restricted Working Space, Add</i>	13.08	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.08	
26 05 33 13-0955 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	329.50	25.24
<i>For Installation Above 14', Add</i>	7.57	
<i>For Work In Restricted Working Space, Add</i>	15.14	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.14	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0956	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	382.15	28.67
			<i>For Installation Above 14', Add</i>	8.60	
			<i>For Work In Restricted Working Space, Add</i>	17.21	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.21	
26 05 33 13-0957	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	605.77	31.54
			<i>For Installation Above 14', Add</i>	9.46	
			<i>For Work In Restricted Working Space, Add</i>	18.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.92	
26 05 33 13-0958	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	1,727.71	39.57
			<i>For Installation Above 14', Add</i>	11.87	
			<i>For Work In Restricted Working Space, Add</i>	23.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.74	
26 05 33 13-0959	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	2,432.35	53.91
			<i>For Installation Above 14', Add</i>	16.17	
			<i>For Work In Restricted Working Space, Add</i>	32.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.35	
26 05 33 13-0960	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	2,533.77	79.13
			<i>For Installation Above 14', Add</i>	23.74	
			<i>For Work In Restricted Working Space, Add</i>	47.48	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.48	
26 05 33 13-0961			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fittings <small>(26 05 33 13-0797)</small>		
26 05 33 13-0962	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	129.24	14.33
			<i>For Installation Above 14', Add</i>	4.30	
			<i>For Work In Restricted Working Space, Add</i>	8.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.60	
26 05 33 13-0963	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	162.85	18.92
			<i>For Installation Above 14', Add</i>	5.68	
			<i>For Work In Restricted Working Space, Add</i>	11.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.35	
26 05 33 13-0964	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	195.36	21.79
			<i>For Installation Above 14', Add</i>	6.54	
			<i>For Work In Restricted Working Space, Add</i>	13.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.08	
26 05 33 13-0965	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	216.18	25.24
			<i>For Installation Above 14', Add</i>	7.57	
			<i>For Work In Restricted Working Space, Add</i>	15.14	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.14	
26 05 33 13-0966	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	292.54	28.67
			<i>For Installation Above 14', Add</i>	8.60	
			<i>For Work In Restricted Working Space, Add</i>	17.21	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.21	
26 05 33 13-0967	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	415.88	31.54
			<i>For Installation Above 14', Add</i>	9.46	
			<i>For Work In Restricted Working Space, Add</i>	18.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.92	
26 05 33 13-0968	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,399.51	39.57
			<i>For Installation Above 14', Add</i>	11.87	
			<i>For Work In Restricted Working Space, Add</i>	23.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.74	
26 05 33 13-0969	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,573.12	53.91
			<i>For Installation Above 14', Add</i>	16.17	
			<i>For Work In Restricted Working Space, Add</i>	32.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.35	
26 05 33 13-0970	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,865.47	79.13
			<i>For Installation Above 14', Add</i>	23.74	
			<i>For Work In Restricted Working Space, Add</i>	47.48	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.48	
26 05 33 13-0971			Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0797)</small>		
			Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-0972	EA		1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	113.15	27.52
			<i>For Installation Above 14', Add</i>	8.26	
			<i>For Work In Restricted Working Space, Add</i>	16.52	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0973 EA 3/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.50 9.46 18.92 18.92	31.54
26 05 33 13-0974 EA 1" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158.46 10.84 21.68 21.68	36.13
26 05 33 13-0975 EA 1-1/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	208.85 12.56 25.12 25.12	41.86
26 05 33 13-0976 EA 1-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	244.55 13.76 27.53 27.53	45.87
26 05 33 13-0977 EA 2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	335.37 16.52 33.03 33.03	55.05
26 05 33 13-0978 EA 2-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	568.26 23.23 46.45 46.45	77.41
26 05 33 13-0979 EA 3" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	726.50 30.97 61.94 61.94	103.22
26 05 33 13-0980 EA 3-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,013.63 38.71 77.42 77.42	129.02
26 05 33 13-0981 EA 4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,161.20 47.14 94.28 94.28	157.13
26 05 33 13-0982 Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0797)</small> Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-0983 EA 1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	147.79 10.84 21.68 21.68	36.13
26 05 33 13-0984 EA 3/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.73 12.04 24.08 24.08	40.14
26 05 33 13-0985 EA 1" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	207.44 13.25 26.49 26.49	44.16
26 05 33 13-0986 EA 1-1/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	281.44 15.14 30.28 30.28	50.46
26 05 33 13-0987 EA 1-1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	333.87 16.52 33.03 33.03	55.05
26 05 33 13-0988 EA 2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	456.76 20.30 40.60 40.60	67.67
26 05 33 13-0989 Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0797)</small> Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-0990 EA 1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	130.14 9.46 18.92 18.92	31.54

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0991	EA		3/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	148.29	36.70
			<i>For Installation Above 14', Add</i>	11.01	
			<i>For Work In Restricted Working Space, Add</i>	22.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.02	
26 05 33 13-0992	EA		1" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	180.62	40.14
			<i>For Installation Above 14', Add</i>	12.04	
			<i>For Work In Restricted Working Space, Add</i>	24.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.08	
26 05 33 13-0993	EA		1-1/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	233.01	45.87
			<i>For Installation Above 14', Add</i>	13.76	
			<i>For Work In Restricted Working Space, Add</i>	27.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.53	
26 05 33 13-0994	EA		1-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	277.33	50.46
			<i>For Installation Above 14', Add</i>	15.14	
			<i>For Work In Restricted Working Space, Add</i>	30.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.28	
26 05 33 13-0995	EA		2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	374.29	59.06
			<i>For Installation Above 14', Add</i>	17.72	
			<i>For Work In Restricted Working Space, Add</i>	35.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.44	
26 05 33 13-0996	EA		2-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	604.74	86.02
			<i>For Installation Above 14', Add</i>	25.81	
			<i>For Work In Restricted Working Space, Add</i>	51.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.61	
26 05 33 13-0997	EA		3" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	801.05	111.83
			<i>For Installation Above 14', Add</i>	33.55	
			<i>For Work In Restricted Working Space, Add</i>	67.09	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.09	
26 05 33 13-0998	EA		3-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,105.17	137.62
			<i>For Installation Above 14', Add</i>	41.29	
			<i>For Work In Restricted Working Space, Add</i>	82.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.58	
26 05 33 13-0999	EA		4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,231.82	165.73
			<i>For Installation Above 14', Add</i>	49.72	
			<i>For Work In Restricted Working Space, Add</i>	99.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	99.44	
26 05 33 13-1000			Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined <small>(26 05 33 13-0797)</small>		
26 05 33 13-1001	EA		1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	27.49	3.44
			<i>For Installation Above 14', Add</i>	1.03	
			<i>For Work In Restricted Working Space, Add</i>	2.07	
26 05 33 13-1002	EA		3/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	30.79	4.02
			<i>For Installation Above 14', Add</i>	1.20	
			<i>For Work In Restricted Working Space, Add</i>	2.41	
26 05 33 13-1003	EA		1" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	40.17	5.16
			<i>For Installation Above 14', Add</i>	1.55	
			<i>For Work In Restricted Working Space, Add</i>	3.10	
26 05 33 13-1004	EA		1-1/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	51.77	6.30
			<i>For Installation Above 14', Add</i>	1.89	
			<i>For Work In Restricted Working Space, Add</i>	3.79	
26 05 33 13-1005	EA		1-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	57.84	7.46
			<i>For Installation Above 14', Add</i>	2.24	
			<i>For Work In Restricted Working Space, Add</i>	4.47	
26 05 33 13-1006	EA		2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	71.79	8.60
			<i>For Installation Above 14', Add</i>	2.58	
			<i>For Work In Restricted Working Space, Add</i>	5.16	
26 05 33 13-1007	EA		2-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	93.28	9.75
			<i>For Installation Above 14', Add</i>	2.92	
			<i>For Work In Restricted Working Space, Add</i>	5.85	
26 05 33 13-1008	EA		3" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	101.31	13.76
			<i>For Installation Above 14', Add</i>	4.13	
			<i>For Work In Restricted Working Space, Add</i>	8.26	
26 05 33 13-1009	EA		3-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	123.49	15.48
			<i>For Installation Above 14', Add</i>	4.65	
			<i>For Work In Restricted Working Space, Add</i>	9.29	
26 05 33 13-1010	EA		4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	131.52	19.49
			<i>For Installation Above 14', Add</i>	5.85	
			<i>For Work In Restricted Working Space, Add</i>	11.70	
26 05 33 13-1011			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Bodies <small>(26 05 33 13-0797)</small>		
26 05 33 13-1012	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	128.77	27.52
			<i>For Installation Above 14', Add</i>	8.26	
			<i>For Work In Restricted Working Space, Add</i>	16.52	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1013 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	142.36	31.54
<i>For Installation Above 14', Add</i>	9.46	
<i>For Work In Restricted Working Space, Add</i>	18.92	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.92	
26 05 33 13-1014 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	166.44	36.13
<i>For Installation Above 14', Add</i>	10.84	
<i>For Work In Restricted Working Space, Add</i>	21.68	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.68	
26 05 33 13-1015 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	197.78	41.86
<i>For Installation Above 14', Add</i>	12.56	
<i>For Work In Restricted Working Space, Add</i>	25.12	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.12	
26 05 33 13-1016 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	247.67	45.87
<i>For Installation Above 14', Add</i>	13.76	
<i>For Work In Restricted Working Space, Add</i>	27.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.53	
26 05 33 13-1017 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	300.28	55.05
<i>For Installation Above 14', Add</i>	16.52	
<i>For Work In Restricted Working Space, Add</i>	33.03	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.03	
26 05 33 13-1018 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	435.40	77.41
<i>For Installation Above 14', Add</i>	23.22	
<i>For Work In Restricted Working Space, Add</i>	46.45	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.45	
26 05 33 13-1019 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	557.35	103.22
<i>For Installation Above 14', Add</i>	30.97	
<i>For Work In Restricted Working Space, Add</i>	61.93	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.93	
26 05 33 13-1020 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	1,133.42	129.02
<i>For Installation Above 14', Add</i>	38.71	
<i>For Work In Restricted Working Space, Add</i>	77.42	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.42	
26 05 33 13-1021 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,667.38	157.13
<i>For Installation Above 14', Add</i>	47.14	
<i>For Work In Restricted Working Space, Add</i>	94.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.28	
26 05 33 13-1022 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Bodies <small>(26 05 33 13-0797)</small>		
26 05 33 13-1023 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	224.72	27.52
<i>For Installation Above 14', Add</i>	8.26	
<i>For Work In Restricted Working Space, Add</i>	16.52	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.52	
26 05 33 13-1024 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	241.57	31.54
<i>For Installation Above 14', Add</i>	9.46	
<i>For Work In Restricted Working Space, Add</i>	18.92	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.92	
26 05 33 13-1025 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	275.83	36.13
<i>For Installation Above 14', Add</i>	10.84	
<i>For Work In Restricted Working Space, Add</i>	21.68	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.68	
26 05 33 13-1026 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	308.42	41.86
<i>For Installation Above 14', Add</i>	12.56	
<i>For Work In Restricted Working Space, Add</i>	25.12	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.12	
26 05 33 13-1027 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	375.03	45.87
<i>For Installation Above 14', Add</i>	13.76	
<i>For Work In Restricted Working Space, Add</i>	27.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.53	
26 05 33 13-1028 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	421.43	55.05
<i>For Installation Above 14', Add</i>	16.52	
<i>For Work In Restricted Working Space, Add</i>	33.03	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.03	
26 05 33 13-1029 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	592.92	77.41
<i>For Installation Above 14', Add</i>	23.22	
<i>For Work In Restricted Working Space, Add</i>	46.45	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.45	
26 05 33 13-1030 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	827.11	103.22
<i>For Installation Above 14', Add</i>	30.97	
<i>For Work In Restricted Working Space, Add</i>	61.93	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.93	
26 05 33 13-1031 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	1,211.76	129.02
<i>For Installation Above 14', Add</i>	38.71	
<i>For Work In Restricted Working Space, Add</i>	77.42	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.42	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1032	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	1,769.90	157.13
			<i>For Installation Above 14', Add</i>	47.14	
			<i>For Work In Restricted Working Space, Add</i>	94.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.28	
26 05 33 13-1033			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Bodies <small>(26 05 33 13-0797)</small>		
26 05 33 13-1034	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	178.53	27.52
			<i>For Installation Above 14', Add</i>	8.26	
			<i>For Work In Restricted Working Space, Add</i>	16.52	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.52	
26 05 33 13-1035	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	189.84	31.54
			<i>For Installation Above 14', Add</i>	9.46	
			<i>For Work In Restricted Working Space, Add</i>	18.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.92	
26 05 33 13-1036	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	218.14	36.13
			<i>For Installation Above 14', Add</i>	10.84	
			<i>For Work In Restricted Working Space, Add</i>	21.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.68	
26 05 33 13-1037	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	242.99	41.86
			<i>For Installation Above 14', Add</i>	12.56	
			<i>For Work In Restricted Working Space, Add</i>	25.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.12	
26 05 33 13-1038	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	336.93	45.87
			<i>For Installation Above 14', Add</i>	13.76	
			<i>For Work In Restricted Working Space, Add</i>	27.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.53	
26 05 33 13-1039	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	423.73	55.05
			<i>For Installation Above 14', Add</i>	16.52	
			<i>For Work In Restricted Working Space, Add</i>	33.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.03	
26 05 33 13-1040	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	659.91	77.41
			<i>For Installation Above 14', Add</i>	23.22	
			<i>For Work In Restricted Working Space, Add</i>	46.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.45	
26 05 33 13-1041	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	963.41	103.22
			<i>For Installation Above 14', Add</i>	30.97	
			<i>For Work In Restricted Working Space, Add</i>	61.93	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.93	
26 05 33 13-1042	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	1,211.76	129.02
			<i>For Installation Above 14', Add</i>	38.71	
			<i>For Work In Restricted Working Space, Add</i>	77.42	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.42	
26 05 33 13-1043			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Bodies <small>(26 05 33 13-0797)</small>		
26 05 33 13-1044	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	238.28	27.52
			<i>For Installation Above 14', Add</i>	8.26	
			<i>For Work In Restricted Working Space, Add</i>	16.52	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.52	
26 05 33 13-1045	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	264.18	31.54
			<i>For Installation Above 14', Add</i>	9.46	
			<i>For Work In Restricted Working Space, Add</i>	18.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.92	
26 05 33 13-1046	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	328.15	36.13
			<i>For Installation Above 14', Add</i>	10.84	
			<i>For Work In Restricted Working Space, Add</i>	21.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.68	
26 05 33 13-1047	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	405.19	41.86
			<i>For Installation Above 14', Add</i>	12.56	
			<i>For Work In Restricted Working Space, Add</i>	25.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.12	
26 05 33 13-1048	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	566.09	45.87
			<i>For Installation Above 14', Add</i>	13.76	
			<i>For Work In Restricted Working Space, Add</i>	27.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.53	
26 05 33 13-1049	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	678.43	55.05
			<i>For Installation Above 14', Add</i>	16.52	
			<i>For Work In Restricted Working Space, Add</i>	33.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.03	
26 05 33 13-1050			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Couplings <small>(26 05 33 13-0797)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1051 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	44.51	11.02
<i>For Installation Above 14', Add</i>	3.31	
<i>For Work In Restricted Working Space, Add</i>	6.62	
26 05 33 13-1052 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	59.36	13.23
<i>For Installation Above 14', Add</i>	3.97	
<i>For Work In Restricted Working Space, Add</i>	7.94	
26 05 33 13-1053 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	75.23	17.65
<i>For Installation Above 14', Add</i>	5.29	
<i>For Work In Restricted Working Space, Add</i>	10.59	
26 05 33 13-1054 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	104.05	22.06
<i>For Installation Above 14', Add</i>	6.62	
<i>For Work In Restricted Working Space, Add</i>	13.23	
26 05 33 13-1055 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	137.15	26.47
<i>For Installation Above 14', Add</i>	7.94	
<i>For Work In Restricted Working Space, Add</i>	15.88	
26 05 33 13-1056 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	239.81	30.88
<i>For Installation Above 14', Add</i>	9.26	
<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-1057 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	350.91	35.29
<i>For Installation Above 14', Add</i>	10.59	
<i>For Work In Restricted Working Space, Add</i>	21.17	
26 05 33 13-1058 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	438.90	39.70
<i>For Installation Above 14', Add</i>	11.91	
<i>For Work In Restricted Working Space, Add</i>	23.82	
26 05 33 13-1059 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	613.16	46.31
<i>For Installation Above 14', Add</i>	13.89	
<i>For Work In Restricted Working Space, Add</i>	27.79	
26 05 33 13-1060 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	745.32	52.94
<i>For Installation Above 14', Add</i>	15.88	
<i>For Work In Restricted Working Space, Add</i>	31.76	
26 05 33 13-1061 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	1,193.13	83.81
<i>For Installation Above 14', Add</i>	25.14	
<i>For Work In Restricted Working Space, Add</i>	50.29	
26 05 33 13-1062 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	1,627.61	127.92
<i>For Installation Above 14', Add</i>	38.38	
<i>For Work In Restricted Working Space, Add</i>	76.75	
26 05 33 13-1063 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-1064 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	167.99	27.52
<i>For Installation Above 14', Add</i>	8.26	
<i>For Work In Restricted Working Space, Add</i>	16.52	
26 05 33 13-1065 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	199.14	30.40
<i>For Installation Above 14', Add</i>	9.12	
<i>For Work In Restricted Working Space, Add</i>	18.23	
26 05 33 13-1066 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	219.10	36.13
<i>For Installation Above 14', Add</i>	10.84	
<i>For Work In Restricted Working Space, Add</i>	21.68	
26 05 33 13-1067 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	317.38	41.86
<i>For Installation Above 14', Add</i>	12.56	
<i>For Work In Restricted Working Space, Add</i>	25.12	
26 05 33 13-1068 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	421.00	45.87
<i>For Installation Above 14', Add</i>	13.76	
<i>For Work In Restricted Working Space, Add</i>	27.53	
26 05 33 13-1069 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	453.03	55.05
<i>For Installation Above 14', Add</i>	16.52	
<i>For Work In Restricted Working Space, Add</i>	33.03	
26 05 33 13-1070 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,083.59	76.27
<i>For Installation Above 14', Add</i>	22.88	
<i>For Work In Restricted Working Space, Add</i>	45.76	
26 05 33 13-1071 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,137.71	103.22
<i>For Installation Above 14', Add</i>	30.97	
<i>For Work In Restricted Working Space, Add</i>	61.94	
26 05 33 13-1072 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,871.17	129.02
<i>For Installation Above 14', Add</i>	38.71	
<i>For Work In Restricted Working Space, Add</i>	77.42	
26 05 33 13-1073 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,943.01	157.13
<i>For Installation Above 14', Add</i>	47.14	
<i>For Work In Restricted Working Space, Add</i>	94.28	
26 05 33 13-1074 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-1075 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	248.37	27.52
<i>For Installation Above 14', Add</i>	8.26	
<i>For Work In Restricted Working Space, Add</i>	16.52	
26 05 33 13-1076 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	282.89	31.54
<i>For Installation Above 14', Add</i>	9.46	
<i>For Work In Restricted Working Space, Add</i>	18.92	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1077	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	564.88	36.13
			<i>For Installation Above 14', Add</i>	10.84	
			<i>For Work In Restricted Working Space, Add</i>	21.68	
26 05 33 13-1078	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	591.55	41.86
			<i>For Installation Above 14', Add</i>	12.56	
			<i>For Work In Restricted Working Space, Add</i>	25.12	
26 05 33 13-1079	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	811.56	45.87
			<i>For Installation Above 14', Add</i>	13.76	
			<i>For Work In Restricted Working Space, Add</i>	27.53	
26 05 33 13-1080	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	864.05	55.05
			<i>For Installation Above 14', Add</i>	16.52	
			<i>For Work In Restricted Working Space, Add</i>	33.03	
26 05 33 13-1081	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	1,668.75	77.41
			<i>For Installation Above 14', Add</i>	23.22	
			<i>For Work In Restricted Working Space, Add</i>	46.45	
26 05 33 13-1082	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	1,750.28	103.22
			<i>For Installation Above 14', Add</i>	30.97	
			<i>For Work In Restricted Working Space, Add</i>	61.93	
26 05 33 13-1083	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	2,569.90	129.02
			<i>For Installation Above 14', Add</i>	38.71	
			<i>For Work In Restricted Working Space, Add</i>	77.42	
26 05 33 13-1084	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	2,907.13	157.13
			<i>For Installation Above 14', Add</i>	47.14	
			<i>For Work In Restricted Working Space, Add</i>	94.28	
26 05 33 13-1085			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-1086	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	94.29	14.33
			<i>For Installation Above 14', Add</i>	4.30	
			<i>For Work In Restricted Working Space, Add</i>	8.60	
26 05 33 13-1087	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	109.45	17.78
			<i>For Installation Above 14', Add</i>	5.33	
			<i>For Work In Restricted Working Space, Add</i>	10.67	
26 05 33 13-1088	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	130.22	21.79
			<i>For Installation Above 14', Add</i>	6.54	
			<i>For Work In Restricted Working Space, Add</i>	13.08	
26 05 33 13-1089	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	153.84	25.24
			<i>For Installation Above 14', Add</i>	7.57	
			<i>For Work In Restricted Working Space, Add</i>	15.14	
26 05 33 13-1090			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-1091	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	73.35	14.33
			<i>For Installation Above 14', Add</i>	4.30	
			<i>For Work In Restricted Working Space, Add</i>	8.60	
26 05 33 13-1092	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	84.31	17.78
			<i>For Installation Above 14', Add</i>	5.33	
			<i>For Work In Restricted Working Space, Add</i>	10.67	
26 05 33 13-1093	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	117.98	21.79
			<i>For Installation Above 14', Add</i>	6.54	
			<i>For Work In Restricted Working Space, Add</i>	13.08	
26 05 33 13-1094	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	153.93	25.24
			<i>For Installation Above 14', Add</i>	7.57	
			<i>For Work In Restricted Working Space, Add</i>	15.14	
26 05 33 13-1095	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	188.21	28.67
			<i>For Installation Above 14', Add</i>	8.60	
			<i>For Work In Restricted Working Space, Add</i>	17.21	
26 05 33 13-1096	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	273.48	31.54
			<i>For Installation Above 14', Add</i>	9.46	
			<i>For Work In Restricted Working Space, Add</i>	18.92	
26 05 33 13-1097	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	374.77	39.57
			<i>For Installation Above 14', Add</i>	11.87	
			<i>For Work In Restricted Working Space, Add</i>	23.74	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1098				Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-1099	EA			1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	94.34	14.33
				<i>For Installation Above 14', Add</i>	4.30	
				<i>For Work In Restricted Working Space, Add</i>	8.60	
26 05 33 13-1100	EA			3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	112.34	17.78
				<i>For Installation Above 14', Add</i>	5.33	
				<i>For Work In Restricted Working Space, Add</i>	10.67	
26 05 33 13-1101	EA			1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	130.25	21.79
				<i>For Installation Above 14', Add</i>	6.54	
				<i>For Work In Restricted Working Space, Add</i>	13.08	
26 05 33 13-1102	EA			1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	153.89	25.24
				<i>For Installation Above 14', Add</i>	7.57	
				<i>For Work In Restricted Working Space, Add</i>	15.14	
26 05 33 13-1103				Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-1104	EA			1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	73.42	14.33
				<i>For Installation Above 14', Add</i>	4.30	
				<i>For Work In Restricted Working Space, Add</i>	8.60	
26 05 33 13-1105	EA			3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	84.31	17.78
				<i>For Installation Above 14', Add</i>	5.33	
				<i>For Work In Restricted Working Space, Add</i>	10.67	
26 05 33 13-1106	EA			1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	109.31	21.79
				<i>For Installation Above 14', Add</i>	6.54	
				<i>For Work In Restricted Working Space, Add</i>	13.08	
26 05 33 13-1107	EA			1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	137.09	25.24
				<i>For Installation Above 14', Add</i>	7.57	
				<i>For Work In Restricted Working Space, Add</i>	15.14	
26 05 33 13-1108	EA			1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	160.78	28.67
				<i>For Installation Above 14', Add</i>	8.60	
				<i>For Work In Restricted Working Space, Add</i>	17.21	
26 05 33 13-1109	EA			2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	185.62	31.54
				<i>For Installation Above 14', Add</i>	9.46	
				<i>For Work In Restricted Working Space, Add</i>	18.92	
26 05 33 13-1110	EA			2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	352.37	39.57
				<i>For Installation Above 14', Add</i>	11.87	
				<i>For Work In Restricted Working Space, Add</i>	23.74	
26 05 33 13-1111	EA			3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	401.34	53.91
				<i>For Installation Above 14', Add</i>	16.17	
				<i>For Work In Restricted Working Space, Add</i>	32.34	
26 05 33 13-1112	EA			3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	432.23	60.78
				<i>For Installation Above 14', Add</i>	18.24	
				<i>For Work In Restricted Working Space, Add</i>	36.47	
26 05 33 13-1113	EA			4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	532.04	79.13
				<i>For Installation Above 14', Add</i>	23.74	
				<i>For Work In Restricted Working Space, Add</i>	47.48	
26 05 33 13-1114				Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-1115	EA			1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	154.43	27.52
				<i>For Installation Above 14', Add</i>	8.26	
				<i>For Work In Restricted Working Space, Add</i>	16.52	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.52	
26 05 33 13-1116	EA			3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	166.36	31.54
				<i>For Installation Above 14', Add</i>	9.46	
				<i>For Work In Restricted Working Space, Add</i>	18.92	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.92	
26 05 33 13-1117	EA			1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	181.65	36.13
				<i>For Installation Above 14', Add</i>	10.84	
				<i>For Work In Restricted Working Space, Add</i>	21.68	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.68	
26 05 33 13-1118	EA			1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	245.91	41.86
				<i>For Installation Above 14', Add</i>	12.56	
				<i>For Work In Restricted Working Space, Add</i>	25.12	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.12	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1119	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	315.06 13.76 27.53 27.53	45.87
26 05 33 13-1120			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0797)</small>		
26 05 33 13-1121	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	187.61 8.26 16.52	27.52
26 05 33 13-1122	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	201.58 9.46 18.92	31.54
26 05 33 13-1123	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	235.84 10.84 21.68	36.13
26 05 33 13-1124	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	339.97 12.56 25.12	41.86
26 05 33 13-1125	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	558.78 13.76 27.53	45.87
26 05 33 13-1126	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	602.17 16.52 33.03	55.05
26 05 33 13-1127			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0797)</small>		
26 05 33 13-1128	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	206.44 8.26 16.52	27.52
26 05 33 13-1129	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	232.99 9.46 18.92	31.54
26 05 33 13-1130	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	253.76 10.84 21.68	36.13
26 05 33 13-1131	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	358.18 12.56 25.12	41.86
26 05 33 13-1132	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	602.22 13.76 27.53	45.87
26 05 33 13-1133	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	642.03 16.52 33.03	55.05
26 05 33 13-1134			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0797)</small>		
26 05 33 13-1135	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	206.58 8.26 16.52	27.52
26 05 33 13-1136	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	227.43 9.46 18.92	31.54
26 05 33 13-1137	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	271.06 10.84 21.68	36.13
26 05 33 13-1138	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	372.05 12.56 25.12	41.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1139 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	622.92	45.87
<i>For Installation Above 14', Add</i>	13.76	
<i>For Work In Restricted Working Space, Add</i>	27.53	
26 05 33 13-1140 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	667.55	55.05
<i>For Installation Above 14', Add</i>	16.52	
<i>For Work In Restricted Working Space, Add</i>	33.03	
26 05 33 13-1141 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0797)</small>		
26 05 33 13-1142 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	258.72	27.52
<i>For Installation Above 14', Add</i>	8.26	
<i>For Work In Restricted Working Space, Add</i>	16.52	
26 05 33 13-1143 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	285.38	31.54
<i>For Installation Above 14', Add</i>	9.46	
<i>For Work In Restricted Working Space, Add</i>	18.92	
26 05 33 13-1144 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	308.75	36.13
<i>For Installation Above 14', Add</i>	10.84	
<i>For Work In Restricted Working Space, Add</i>	21.68	
26 05 33 13-1145 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	793.37	41.86
<i>For Installation Above 14', Add</i>	12.56	
<i>For Work In Restricted Working Space, Add</i>	25.12	
26 05 33 13-1146 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Boxes <small>(26 05 33 13-0797)</small>		
Note: Excludes cover.		
26 05 33 13-1147 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	119.71	27.52
<i>For Installation Above 14', Add</i>	8.26	
<i>For Work In Restricted Working Space, Add</i>	16.52	
26 05 33 13-1148 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	131.24	31.54
<i>For Installation Above 14', Add</i>	9.46	
<i>For Work In Restricted Working Space, Add</i>	18.92	
26 05 33 13-1149 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	146.27	36.13
<i>For Installation Above 14', Add</i>	10.84	
<i>For Work In Restricted Working Space, Add</i>	21.68	
26 05 33 13-1150 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	133.85	27.52
<i>For Installation Above 14', Add</i>	8.26	
<i>For Work In Restricted Working Space, Add</i>	16.52	
26 05 33 13-1151 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	143.60	31.54
<i>For Installation Above 14', Add</i>	9.46	
<i>For Work In Restricted Working Space, Add</i>	18.92	
26 05 33 13-1152 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	163.44	36.13
<i>For Installation Above 14', Add</i>	10.84	
<i>For Work In Restricted Working Space, Add</i>	21.68	
26 05 33 13-1153 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Boxes <small>(26 05 33 13-0797)</small>		
Note: Excludes cover.		
26 05 33 13-1154 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	126.40	27.52
<i>For Installation Above 14', Add</i>	8.26	
<i>For Work In Restricted Working Space, Add</i>	16.52	
26 05 33 13-1155 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	138.76	31.54
<i>For Installation Above 14', Add</i>	9.46	
<i>For Work In Restricted Working Space, Add</i>	18.92	
26 05 33 13-1156 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	151.46	36.13
<i>For Installation Above 14', Add</i>	10.84	
<i>For Work In Restricted Working Space, Add</i>	21.68	
26 05 33 13-1157 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	143.41	27.52
<i>For Installation Above 14', Add</i>	8.26	
<i>For Work In Restricted Working Space, Add</i>	16.52	
26 05 33 13-1158 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	155.94	31.54
<i>For Installation Above 14', Add</i>	9.46	
<i>For Work In Restricted Working Space, Add</i>	18.92	
26 05 33 13-1159 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	176.14	36.13
<i>For Installation Above 14', Add</i>	10.84	
<i>For Work In Restricted Working Space, Add</i>	21.68	
26 05 33 13-1160 Polyvinyl Chloride (PVC) Coated, Urethane Lined, FS And FD Series Covers <small>(26 05 33 13-0797)</small>		
26 05 33 13-1161 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS23, FS And FD Series Cover	46.90	3.44
<i>For Installation Above 14', Add</i>	1.03	
<i>For Work In Restricted Working Space, Add</i>	2.07	

26 Electrical
26 05 Common Work Results For Electrical
26 05 33 Raceway And Boxes For Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1162	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS21G, FS And FD Series Cover.....	64.00	4.02
			<i>For Installation Above 14', Add</i>	1.20	
			<i>For Work In Restricted Working Space, Add</i>	2.41	
26 05 33 13-1163	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS32G, FS And FD Series Cover.....	60.33	4.02
			<i>For Installation Above 14', Add</i>	1.20	
			<i>For Work In Restricted Working Space, Add</i>	2.41	
26 05 33 13-1164	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS100G, FS And FD Series Cover.....	53.48	4.02
			<i>For Installation Above 14', Add</i>	1.20	
			<i>For Work In Restricted Working Space, Add</i>	2.41	
26 05 33 13-1165	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover	265.42	5.73
			<i>For Installation Above 14', Add</i>	1.72	
			<i>For Work In Restricted Working Space, Add</i>	3.44	
26 05 33 13-1166	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRS1, FS And FD Series Cover	235.71	5.73
			<i>For Installation Above 14', Add</i>	1.72	
			<i>For Work In Restricted Working Space, Add</i>	3.44	
26 05 33 13-1167 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel					
(RGS) Mogul Conduit Bodies <small>(26 05 33 13-0797)</small>					
Note: Includes covers.					
26 05 33 13-1168	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	267.23	36.13
			<i>For Installation Above 14', Add</i>	10.84	
			<i>For Work In Restricted Working Space, Add</i>	21.68	
26 05 33 13-1169	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	299.72	41.86
			<i>For Installation Above 14', Add</i>	12.56	
			<i>For Work In Restricted Working Space, Add</i>	25.12	
26 05 33 13-1170	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	417.84	45.87
			<i>For Installation Above 14', Add</i>	13.76	
			<i>For Work In Restricted Working Space, Add</i>	27.53	
26 05 33 13-1171	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	497.76	55.05
			<i>For Installation Above 14', Add</i>	16.52	
			<i>For Work In Restricted Working Space, Add</i>	33.03	
26 05 33 13-1172	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	719.80	77.41
			<i>For Installation Above 14', Add</i>	23.22	
			<i>For Work In Restricted Working Space, Add</i>	46.45	
26 05 33 13-1173	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	906.39	103.22
			<i>For Installation Above 14', Add</i>	30.97	
			<i>For Work In Restricted Working Space, Add</i>	61.93	
26 05 33 13-1174	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	1,336.05	129.02
			<i>For Installation Above 14', Add</i>	38.71	
			<i>For Work In Restricted Working Space, Add</i>	77.42	
26 05 33 13-1175	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	1,658.78	157.13
			<i>For Installation Above 14', Add</i>	47.14	
			<i>For Work In Restricted Working Space, Add</i>	94.28	
26 05 33 13-1176	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	267.23	36.13
			<i>For Installation Above 14', Add</i>	10.84	
			<i>For Work In Restricted Working Space, Add</i>	21.68	
26 05 33 13-1177	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	299.72	41.86
			<i>For Installation Above 14', Add</i>	12.56	
			<i>For Work In Restricted Working Space, Add</i>	25.12	
26 05 33 13-1178	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	416.64	45.87
			<i>For Installation Above 14', Add</i>	13.76	
			<i>For Work In Restricted Working Space, Add</i>	27.53	
26 05 33 13-1179	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	485.66	55.05
			<i>For Installation Above 14', Add</i>	16.52	
			<i>For Work In Restricted Working Space, Add</i>	33.03	
26 05 33 13-1180	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	730.94	77.41
			<i>For Installation Above 14', Add</i>	23.22	
			<i>For Work In Restricted Working Space, Add</i>	46.45	
26 05 33 13-1181	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	956.37	103.22
			<i>For Installation Above 14', Add</i>	30.97	
			<i>For Work In Restricted Working Space, Add</i>	61.93	
26 05 33 13-1182	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,396.38	129.02
			<i>For Installation Above 14', Add</i>	38.71	
			<i>For Work In Restricted Working Space, Add</i>	77.42	
26 05 33 13-1183	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,696.35	157.13
			<i>For Installation Above 14', Add</i>	47.14	
			<i>For Work In Restricted Working Space, Add</i>	94.28	
26 05 33 13-1184	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	267.23	36.13
			<i>For Installation Above 14', Add</i>	10.84	
			<i>For Work In Restricted Working Space, Add</i>	21.68	
26 05 33 13-1185	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	299.72	41.86
			<i>For Installation Above 14', Add</i>	12.56	
			<i>For Work In Restricted Working Space, Add</i>	25.12	
26 05 33 13-1186	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	416.64	45.87
			<i>For Installation Above 14', Add</i>	13.76	
			<i>For Work In Restricted Working Space, Add</i>	27.53	
26 05 33 13-1187	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	485.66	55.05
			<i>For Installation Above 14', Add</i>	16.52	
			<i>For Work In Restricted Working Space, Add</i>	33.03	
26 05 33 13-1188	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	730.94	77.41
			<i>For Installation Above 14', Add</i>	23.22	
			<i>For Work In Restricted Working Space, Add</i>	46.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1189 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	956.37 30.97 61.93	103.22
26 05 33 13-1190 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,396.38 38.71 77.42	129.02
26 05 33 13-1191 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,696.35 47.14 94.28	157.13
26 05 33 13-1192 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	267.23 10.84 21.68	36.13
26 05 33 13-1193 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	299.72 12.56 25.12	41.86
26 05 33 13-1194 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	417.84 13.76 27.53	45.87
26 05 33 13-1195 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	492.18 16.52 33.03	55.05
26 05 33 13-1196 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	719.80 23.22 46.45	77.41
26 05 33 13-1197 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	906.39 30.97 61.93	103.22
26 05 33 13-1198 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,336.05 38.71 77.42	129.02
26 05 33 13-1199 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,674.43 47.14 94.28	157.13
26 05 33 13-1200 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Covers <small>(26 05 33 13-0797)</small>		
26 05 33 13-1201 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	137.34 1.55 3.10	5.16
26 05 33 13-1202 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	138.49 1.72 3.44	5.73
26 05 33 13-1203 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	195.82 2.41 4.82	8.03
26 05 33 13-1204 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	198.11 2.75 5.51	9.17
26 05 33 13-1205 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	347.97 3.27 6.54	10.89
26 05 33 13-1206 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	353.70 4.13 8.26	13.76
26 05 33 13-1207 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	534.59 4.65 9.29	15.48
26 05 33 13-1208 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	543.76 6.02 12.04	20.07
26 05 33 13-1209 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings <small>(26 05 33 13-0797)</small>		
26 05 33 13-1210 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	234.61 4.30 8.60	14.33
26 05 33 13-1211 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	276.91 5.33 10.67	17.78
26 05 33 13-1212 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	327.51 6.54 13.08	21.79
26 05 33 13-1213 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	404.03 7.57 15.14	25.24
26 05 33 13-1214 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	541.90 8.60 17.21	28.67

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1215	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	753.14	31.54
			<i>For Installation Above 14', Add</i>	9.46	
			<i>For Work In Restricted Working Space, Add</i>	18.92	
26 05 33 13-1216	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,077.52	39.57
			<i>For Installation Above 14', Add</i>	11.87	
			<i>For Work In Restricted Working Space, Add</i>	23.74	
26 05 33 13-1217	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,338.19	53.91
			<i>For Installation Above 14', Add</i>	16.17	
			<i>For Work In Restricted Working Space, Add</i>	32.34	
26 05 33 13-1218	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,882.75	60.78
			<i>For Installation Above 14', Add</i>	18.24	
			<i>For Work In Restricted Working Space, Add</i>	36.47	
26 05 33 13-1219	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	2,166.75	79.13
			<i>For Installation Above 14', Add</i>	23.74	
			<i>For Work In Restricted Working Space, Add</i>	47.48	
26 05 33 13-1220 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings With Bonding Jumper (26 05 33 13-0797)					
26 05 33 13-1221	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	375.70	14.33
			<i>For Installation Above 14', Add</i>	4.30	
			<i>For Work In Restricted Working Space, Add</i>	8.60	
26 05 33 13-1222	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	389.13	17.78
			<i>For Installation Above 14', Add</i>	5.33	
			<i>For Work In Restricted Working Space, Add</i>	10.67	
26 05 33 13-1223	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	436.40	21.79
			<i>For Installation Above 14', Add</i>	6.54	
			<i>For Work In Restricted Working Space, Add</i>	13.08	
26 05 33 13-1224	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	528.47	25.24
			<i>For Installation Above 14', Add</i>	7.57	
			<i>For Work In Restricted Working Space, Add</i>	15.14	
26 05 33 13-1225	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	641.25	28.67
			<i>For Installation Above 14', Add</i>	8.60	
			<i>For Work In Restricted Working Space, Add</i>	17.21	
26 05 33 13-1226	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	821.54	31.54
			<i>For Installation Above 14', Add</i>	9.46	
			<i>For Work In Restricted Working Space, Add</i>	18.92	
26 05 33 13-1227	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,215.30	39.57
			<i>For Installation Above 14', Add</i>	11.87	
			<i>For Work In Restricted Working Space, Add</i>	23.74	
26 05 33 13-1228	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,522.30	53.91
			<i>For Installation Above 14', Add</i>	16.17	
			<i>For Work In Restricted Working Space, Add</i>	32.34	
26 05 33 13-1229	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,942.19	60.78
			<i>For Installation Above 14', Add</i>	18.24	
			<i>For Work In Restricted Working Space, Add</i>	36.47	
26 05 33 13-1230	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	2,429.99	79.13
			<i>For Installation Above 14', Add</i>	23.74	
			<i>For Work In Restricted Working Space, Add</i>	47.48	
26 05 33 13-1231 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STG Knockout Hubs (26 05 33 13-0797)					
26 05 33 13-1232	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	76.77	6.89
			<i>For Installation Above 14', Add</i>	2.06	
			<i>For Work In Restricted Working Space, Add</i>	4.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 05 33 13-1233	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	82.88	8.60
			<i>For Installation Above 14', Add</i>	2.58	
			<i>For Work In Restricted Working Space, Add</i>	5.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.16	
26 05 33 13-1234	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	90.89	10.32
			<i>For Installation Above 14', Add</i>	3.10	
			<i>For Work In Restricted Working Space, Add</i>	6.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.20	
26 05 33 13-1235	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	102.53	12.62
			<i>For Installation Above 14', Add</i>	3.79	
			<i>For Work In Restricted Working Space, Add</i>	7.57	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.57	
26 05 33 13-1236	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	138.76	14.33
			<i>For Installation Above 14', Add</i>	4.30	
			<i>For Work In Restricted Working Space, Add</i>	8.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1237 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	170.03 4.82 9.63 9.63	16.06
26 05 33 13-1238 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	244.36 6.02 12.04 12.04	20.07
26 05 33 13-1239 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	318.76 8.09 16.17 16.17	26.95
26 05 33 13-1240 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	408.31 9.12 18.23 18.23	30.40
26 05 33 13-1241 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	513.10 11.87 23.74 23.74	39.57
26 05 33 13-1242 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	633.14 19.27 38.54 38.54	64.22
26 05 33 13-1243 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	954.87 29.07 58.15 58.15	96.91
26 05 33 13-1244 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs <small>(26 05 33 13-0797)</small>		
26 05 33 13-1245 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	116.85 2.06 4.13 4.13	6.89
26 05 33 13-1246 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.25 2.58 5.16 5.16	8.60
26 05 33 13-1247 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.15 3.10 6.20 6.20	10.32
26 05 33 13-1248 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.63 3.79 7.57 7.57	12.62
26 05 33 13-1249 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	161.47 4.30 8.60 8.60	14.33
26 05 33 13-1250 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.68 4.82 9.63 9.63	16.06
26 05 33 13-1251 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	279.86 6.02 12.04 12.04	20.07
26 05 33 13-1252 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	334.07 8.09 16.17 16.17	26.95
26 05 33 13-1253 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	411.62 9.12 18.23 18.23	30.40
26 05 33 13-1254 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	534.45 11.87 23.74 23.74	39.57
26 05 33 13-1255 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	830.56 19.27 38.54 38.54	64.22
26 05 33 13-1256 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,361.70 29.07 58.15 58.15	96.91
26 05 33 13-1257 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs <small>(26 05 33 13-0797)</small>		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1258	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTTB Knockout Hub.....	125.76	6.89
			<i>For Installation Above 14', Add</i>	2.06	
			<i>For Work In Restricted Working Space, Add</i>	4.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 05 33 13-1259	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTTB Knockout Hub.....	131.70	8.60
			<i>For Installation Above 14', Add</i>	2.58	
			<i>For Work In Restricted Working Space, Add</i>	5.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.16	
26 05 33 13-1260	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTTB Knockout Hub	140.99	10.32
			<i>For Installation Above 14', Add</i>	3.10	
			<i>For Work In Restricted Working Space, Add</i>	6.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.20	
26 05 33 13-1261	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTTB Knockout Hub	177.47	12.62
			<i>For Installation Above 14', Add</i>	3.79	
			<i>For Work In Restricted Working Space, Add</i>	7.57	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.57	
26 05 33 13-1262	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTTB Knockout Hub	193.86	14.33
			<i>For Installation Above 14', Add</i>	4.30	
			<i>For Work In Restricted Working Space, Add</i>	8.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.60	
26 05 33 13-1263	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTTB Knockout Hub	205.04	16.06
			<i>For Installation Above 14', Add</i>	4.82	
			<i>For Work In Restricted Working Space, Add</i>	9.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.63	
26 05 33 13-1264			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions <small>(26 05 33 13-0797)</small>		
26 05 33 13-1265	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	90.51	14.33
			<i>For Installation Above 14', Add</i>	4.30	
			<i>For Work In Restricted Working Space, Add</i>	8.60	
26 05 33 13-1266	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	98.52	17.78
			<i>For Installation Above 14', Add</i>	5.33	
			<i>For Work In Restricted Working Space, Add</i>	10.67	
26 05 33 13-1267	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	127.99	21.79
			<i>For Installation Above 14', Add</i>	6.54	
			<i>For Work In Restricted Working Space, Add</i>	13.08	
26 05 33 13-1268	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	186.30	25.24
			<i>For Installation Above 14', Add</i>	7.57	
			<i>For Work In Restricted Working Space, Add</i>	15.14	
26 05 33 13-1269	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	221.20	28.67
			<i>For Installation Above 14', Add</i>	8.60	
			<i>For Work In Restricted Working Space, Add</i>	17.21	
26 05 33 13-1270	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	281.43	31.54
			<i>For Installation Above 14', Add</i>	9.46	
			<i>For Work In Restricted Working Space, Add</i>	18.92	
26 05 33 13-1271	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	374.74	39.57
			<i>For Installation Above 14', Add</i>	11.87	
			<i>For Work In Restricted Working Space, Add</i>	23.74	
26 05 33 13-1272	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	486.68	39.57
			<i>For Installation Above 14', Add</i>	11.87	
			<i>For Work In Restricted Working Space, Add</i>	23.74	
26 05 33 13-1273	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	627.10	60.78
			<i>For Installation Above 14', Add</i>	18.24	
			<i>For Work In Restricted Working Space, Add</i>	36.47	
26 05 33 13-1274	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	807.38	79.13
			<i>For Installation Above 14', Add</i>	23.74	
			<i>For Work In Restricted Working Space, Add</i>	47.48	
26 05 33 13-1275	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	1,471.32	129.02
			<i>For Installation Above 14', Add</i>	38.71	
			<i>For Work In Restricted Working Space, Add</i>	77.42	
26 05 33 13-1276	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	1,832.65	193.83
			<i>For Installation Above 14', Add</i>	58.15	
			<i>For Work In Restricted Working Space, Add</i>	116.30	
26 05 33 13-1277			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions <small>(26 05 33 13-0797)</small>		
26 05 33 13-1278	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	92.59	14.33
			<i>For Installation Above 14', Add</i>	4.30	
			<i>For Work In Restricted Working Space, Add</i>	8.60	
26 05 33 13-1279	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	106.48	17.78
			<i>For Installation Above 14', Add</i>	5.33	
			<i>For Work In Restricted Working Space, Add</i>	10.67	
26 05 33 13-1280	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	132.23	21.79
			<i>For Installation Above 14', Add</i>	6.54	
			<i>For Work In Restricted Working Space, Add</i>	13.08	
26 05 33 13-1281	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	194.09	25.24
			<i>For Installation Above 14', Add</i>	7.57	
			<i>For Work In Restricted Working Space, Add</i>	15.14	
26 05 33 13-1282	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	232.00	28.67
			<i>For Installation Above 14', Add</i>	8.60	
			<i>For Work In Restricted Working Space, Add</i>	17.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1283 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	304.77	31.54
<i>For Installation Above 14', Add</i>	9.46	
<i>For Work In Restricted Working Space, Add</i>	18.92	
26 05 33 13-1284 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	424.67	39.57
<i>For Installation Above 14', Add</i>	11.87	
<i>For Work In Restricted Working Space, Add</i>	23.74	
26 05 33 13-1285 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	537.44	39.57
<i>For Installation Above 14', Add</i>	11.87	
<i>For Work In Restricted Working Space, Add</i>	23.74	
26 05 33 13-1286 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	718.89	60.78
<i>For Installation Above 14', Add</i>	18.24	
<i>For Work In Restricted Working Space, Add</i>	36.47	
26 05 33 13-1287 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	898.83	79.13
<i>For Installation Above 14', Add</i>	23.74	
<i>For Work In Restricted Working Space, Add</i>	47.48	
26 05 33 13-1288 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	1,638.95	129.02
<i>For Installation Above 14', Add</i>	38.71	
<i>For Work In Restricted Working Space, Add</i>	77.42	
26 05 33 13-1289 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	2,103.32	193.83
<i>For Installation Above 14', Add</i>	58.15	
<i>For Work In Restricted Working Space, Add</i>	116.30	
26 05 33 13-1290 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Reducing Couplings <small>(26 05 33 13-0797)</small>		
26 05 33 13-1291 EA 3/4" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	51.00	4.59
<i>For Installation Above 14', Add</i>	1.38	
<i>For Work In Restricted Working Space, Add</i>	2.75	
26 05 33 13-1292 EA 1" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	55.83	5.73
<i>For Installation Above 14', Add</i>	1.72	
<i>For Work In Restricted Working Space, Add</i>	3.44	
26 05 33 13-1293 EA 1" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	63.64	5.73
<i>For Installation Above 14', Add</i>	1.72	
<i>For Work In Restricted Working Space, Add</i>	3.44	
26 05 33 13-1294 EA 1-1/4" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	78.79	6.30
<i>For Installation Above 14', Add</i>	1.89	
<i>For Work In Restricted Working Space, Add</i>	3.79	
26 05 33 13-1295 EA 1-1/4" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	83.30	6.30
<i>For Installation Above 14', Add</i>	1.89	
<i>For Work In Restricted Working Space, Add</i>	3.79	
26 05 33 13-1296 EA 1-1/2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	71.14	7.46
<i>For Installation Above 14', Add</i>	2.24	
<i>For Work In Restricted Working Space, Add</i>	4.47	
26 05 33 13-1297 EA 1-1/2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	81.20	7.46
<i>For Installation Above 14', Add</i>	2.24	
<i>For Work In Restricted Working Space, Add</i>	4.47	
26 05 33 13-1298 EA 1-1/2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	126.46	7.46
<i>For Installation Above 14', Add</i>	2.24	
<i>For Work In Restricted Working Space, Add</i>	4.47	
26 05 33 13-1299 EA 2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	140.52	8.60
<i>For Installation Above 14', Add</i>	2.58	
<i>For Work In Restricted Working Space, Add</i>	5.16	
26 05 33 13-1300 EA 2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	136.62	8.60
<i>For Installation Above 14', Add</i>	2.58	
<i>For Work In Restricted Working Space, Add</i>	5.16	
26 05 33 13-1301 EA 2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	143.87	8.60
<i>For Installation Above 14', Add</i>	2.58	
<i>For Work In Restricted Working Space, Add</i>	5.16	
26 05 33 13-1302 EA 2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	162.13	8.60
<i>For Installation Above 14', Add</i>	2.58	
<i>For Work In Restricted Working Space, Add</i>	5.16	
26 05 33 13-1303 EA 2-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	160.66	10.32
<i>For Installation Above 14', Add</i>	3.10	
<i>For Work In Restricted Working Space, Add</i>	6.20	
26 05 33 13-1304 EA 3" x 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	204.62	14.33
<i>For Installation Above 14', Add</i>	4.30	
<i>For Work In Restricted Working Space, Add</i>	8.60	
26 05 33 13-1305 EA 3-1/2" x 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	302.19	16.63
<i>For Installation Above 14', Add</i>	4.99	
<i>For Work In Restricted Working Space, Add</i>	9.98	
26 05 33 13-1306 EA 4" x 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	404.17	22.94
<i>For Installation Above 14', Add</i>	6.88	
<i>For Work In Restricted Working Space, Add</i>	13.76	
26 05 33 13-1307 EA 5" x 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	504.84	31.54
<i>For Installation Above 14', Add</i>	9.46	
<i>For Work In Restricted Working Space, Add</i>	18.92	
26 05 33 13-1308 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples <small>(26 05 33 13-0797)</small>		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1309	EA	1/2" x 2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....31.30 <i>For Installation Above 14', Add</i> 2.06 <i>For Work In Restricted Working Space, Add</i> 4.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.13	31.30	6.89
26 05 33 13-1310	EA	3/4" x 2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....35.08 <i>For Installation Above 14', Add</i> 2.58 <i>For Work In Restricted Working Space, Add</i> 5.16 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 5.16	35.08	8.60
26 05 33 13-1311	EA	1" x 2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....40.64 <i>For Installation Above 14', Add</i> 3.27 <i>For Work In Restricted Working Space, Add</i> 6.54 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.54	40.64	10.89
26 05 33 13-1312	EA	1-1/4" x 2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....48.43 <i>For Installation Above 14', Add</i> 3.79 <i>For Work In Restricted Working Space, Add</i> 7.57 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 7.57	48.43	12.62
26 05 33 13-1313	EA	1-1/2" x 2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....52.62 <i>For Installation Above 14', Add</i> 4.30 <i>For Work In Restricted Working Space, Add</i> 8.60 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.60	52.62	14.33
26 05 33 13-1314	EA	1-1/2" x 2-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....34.70 <i>For Installation Above 14', Add</i> 2.24 <i>For Work In Restricted Working Space, Add</i> 4.47 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.47	34.70	7.46
26 05 33 13-1315	EA	3/4" x 2-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....37.48 <i>For Installation Above 14', Add</i> 2.58 <i>For Work In Restricted Working Space, Add</i> 5.16 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 5.16	37.48	8.60
26 05 33 13-1316	EA	1" x 2-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....43.06 <i>For Installation Above 14', Add</i> 3.27 <i>For Work In Restricted Working Space, Add</i> 6.54 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.54	43.06	10.89
26 05 33 13-1317	EA	1-1/4" x 2-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....50.99 <i>For Installation Above 14', Add</i> 3.79 <i>For Work In Restricted Working Space, Add</i> 7.57 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 7.57	50.99	12.62
26 05 33 13-1318	EA	1-1/2" x 2-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....55.38 <i>For Installation Above 14', Add</i> 4.30 <i>For Work In Restricted Working Space, Add</i> 8.60 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.60	55.38	14.33
26 05 33 13-1319	EA	2" x 2-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....60.02 <i>For Installation Above 14', Add</i> 4.82 <i>For Work In Restricted Working Space, Add</i> 9.63 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 9.63	60.02	16.06
26 05 33 13-1320	EA	1/2" x 3"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....34.87 <i>For Installation Above 14', Add</i> 2.24 <i>For Work In Restricted Working Space, Add</i> 4.47 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.47	34.87	7.46
26 05 33 13-1321	EA	3/4" x 3"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....37.64 <i>For Installation Above 14', Add</i> 2.58 <i>For Work In Restricted Working Space, Add</i> 5.16 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 5.16	37.64	8.60
26 05 33 13-1322	EA	1" x 3"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....43.38 <i>For Installation Above 14', Add</i> 3.27 <i>For Work In Restricted Working Space, Add</i> 6.54 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.54	43.38	10.89
26 05 33 13-1323	EA	1-1/4" x 3"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....51.32 <i>For Installation Above 14', Add</i> 3.78 <i>For Work In Restricted Working Space, Add</i> 7.57 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 7.57	51.32	12.62
26 05 33 13-1324	EA	1-1/2" x 3"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....55.72 <i>For Installation Above 14', Add</i> 4.30 <i>For Work In Restricted Working Space, Add</i> 8.60 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.60	55.72	14.33
26 05 33 13-1325	EA	2" x 3"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....60.88 <i>For Installation Above 14', Add</i> 4.82 <i>For Work In Restricted Working Space, Add</i> 9.63 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 9.63	60.88	16.06
26 05 33 13-1326	EA	1/2" x 3-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....37.14 <i>For Installation Above 14', Add</i> 2.24 <i>For Work In Restricted Working Space, Add</i> 4.47 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.47	37.14	7.46
26 05 33 13-1327	EA	3/4" x 3-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....39.91 <i>For Installation Above 14', Add</i> 2.58 <i>For Work In Restricted Working Space, Add</i> 5.16 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 5.16	39.91	8.60
26 05 33 13-1328	EA	1" x 3-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....45.82 <i>For Installation Above 14', Add</i> 3.27 <i>For Work In Restricted Working Space, Add</i> 6.54 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.54	45.82	10.89
26 05 33 13-1329	EA	1-1/4" x 3-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....52.71 <i>For Installation Above 14', Add</i> 3.78 <i>For Work In Restricted Working Space, Add</i> 7.57 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 7.57	52.71	12.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1330 EA 1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	57.25	14.33
For Installation Above 14', Add	4.30	
For Work In Restricted Working Space, Add	8.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.60	
26 05 33 13-1331 EA 2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	63.57	16.06
For Installation Above 14', Add	4.82	
For Work In Restricted Working Space, Add	9.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.63	
26 05 33 13-1332 EA 2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	88.93	19.49
For Installation Above 14', Add	5.85	
For Work In Restricted Working Space, Add	11.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.70	
26 05 33 13-1333 EA 3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	114.99	26.95
For Installation Above 14', Add	8.09	
For Work In Restricted Working Space, Add	16.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.17	
26 05 33 13-1334 EA 1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	37.31	7.46
For Installation Above 14', Add	2.24	
For Work In Restricted Working Space, Add	4.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.47	
26 05 33 13-1335 EA 3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	40.22	8.60
For Installation Above 14', Add	2.58	
For Work In Restricted Working Space, Add	5.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.16	
26 05 33 13-1336 EA 1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	46.15	10.89
For Installation Above 14', Add	3.27	
For Work In Restricted Working Space, Add	6.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.54	
26 05 33 13-1337 EA 1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	54.10	12.62
For Installation Above 14', Add	3.78	
For Work In Restricted Working Space, Add	7.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.57	
26 05 33 13-1338 EA 1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	58.78	14.33
For Installation Above 14', Add	4.30	
For Work In Restricted Working Space, Add	8.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.60	
26 05 33 13-1339 EA 2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	66.25	16.06
For Installation Above 14', Add	4.82	
For Work In Restricted Working Space, Add	9.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.63	
26 05 33 13-1340 EA 2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	91.30	19.49
For Installation Above 14', Add	5.85	
For Work In Restricted Working Space, Add	11.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.70	
26 05 33 13-1341 EA 3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	120.10	26.95
For Installation Above 14', Add	8.09	
For Work In Restricted Working Space, Add	16.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.17	
26 05 33 13-1342 EA 3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	143.34	30.40
For Installation Above 14', Add	9.12	
For Work In Restricted Working Space, Add	18.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.23	
26 05 33 13-1343 EA 4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	167.46	39.57
For Installation Above 14', Add	11.87	
For Work In Restricted Working Space, Add	23.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.74	
26 05 33 13-1344 EA 1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	37.62	7.46
For Installation Above 14', Add	2.24	
For Work In Restricted Working Space, Add	4.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.47	
26 05 33 13-1345 EA 3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	40.56	8.60
For Installation Above 14', Add	2.58	
For Work In Restricted Working Space, Add	5.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.16	
26 05 33 13-1346 EA 1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	46.51	10.89
For Installation Above 14', Add	3.27	
For Work In Restricted Working Space, Add	6.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.54	
26 05 33 13-1347 EA 1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	54.75	12.62
For Installation Above 14', Add	3.78	
For Work In Restricted Working Space, Add	7.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.57	
26 05 33 13-1348 EA 1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	59.46	14.33
For Installation Above 14', Add	4.30	
For Work In Restricted Working Space, Add	8.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.60	
26 05 33 13-1349 EA 2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	67.71	16.06
For Installation Above 14', Add	4.82	
For Work In Restricted Working Space, Add	9.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.63	
26 05 33 13-1350 EA 2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	100.74	19.49
For Installation Above 14', Add	5.85	
For Work In Restricted Working Space, Add	11.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.70	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1351	EA		3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	127.74	26.95
			<i>For Installation Above 14', Add</i>	8.09	
			<i>For Work In Restricted Working Space, Add</i>	16.17	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.17	
26 05 33 13-1352	EA		3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	144.97	30.40
			<i>For Installation Above 14', Add</i>	9.12	
			<i>For Work In Restricted Working Space, Add</i>	18.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.23	
26 05 33 13-1353	EA		4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	171.82	39.57
			<i>For Installation Above 14', Add</i>	11.87	
			<i>For Work In Restricted Working Space, Add</i>	23.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.74	
26 05 33 13-1354	EA		5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	253.13	54.48
			<i>For Installation Above 14', Add</i>	16.34	
			<i>For Work In Restricted Working Space, Add</i>	32.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.69	
26 05 33 13-1355	EA		1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	38.22	7.46
			<i>For Installation Above 14', Add</i>	2.24	
			<i>For Work In Restricted Working Space, Add</i>	4.47	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.47	
26 05 33 13-1356	EA		3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	41.16	8.60
			<i>For Installation Above 14', Add</i>	2.58	
			<i>For Work In Restricted Working Space, Add</i>	5.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.16	
26 05 33 13-1357	EA		1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	47.16	10.89
			<i>For Installation Above 14', Add</i>	3.27	
			<i>For Work In Restricted Working Space, Add</i>	6.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.54	
26 05 33 13-1358	EA		1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	55.94	12.62
			<i>For Installation Above 14', Add</i>	3.78	
			<i>For Work In Restricted Working Space, Add</i>	7.57	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.57	
26 05 33 13-1359	EA		1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	60.89	14.33
			<i>For Installation Above 14', Add</i>	4.30	
			<i>For Work In Restricted Working Space, Add</i>	8.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.60	
26 05 33 13-1360	EA		2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	69.17	16.06
			<i>For Installation Above 14', Add</i>	4.82	
			<i>For Work In Restricted Working Space, Add</i>	9.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.63	
26 05 33 13-1361	EA		2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	110.32	19.49
			<i>For Installation Above 14', Add</i>	5.85	
			<i>For Work In Restricted Working Space, Add</i>	11.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.70	
26 05 33 13-1362	EA		3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	137.90	26.95
			<i>For Installation Above 14', Add</i>	8.09	
			<i>For Work In Restricted Working Space, Add</i>	16.17	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.17	
26 05 33 13-1363	EA		3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	154.12	30.40
			<i>For Installation Above 14', Add</i>	9.12	
			<i>For Work In Restricted Working Space, Add</i>	18.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.23	
26 05 33 13-1364	EA		4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	187.25	39.57
			<i>For Installation Above 14', Add</i>	11.87	
			<i>For Work In Restricted Working Space, Add</i>	23.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.74	
26 05 33 13-1365	EA		5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	276.20	54.48
			<i>For Installation Above 14', Add</i>	16.34	
			<i>For Work In Restricted Working Space, Add</i>	32.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.69	
26 05 33 13-1366	EA		1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	39.16	7.46
			<i>For Installation Above 14', Add</i>	2.24	
			<i>For Work In Restricted Working Space, Add</i>	4.47	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.47	
26 05 33 13-1367	EA		3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	42.07	8.60
			<i>For Installation Above 14', Add</i>	2.58	
			<i>For Work In Restricted Working Space, Add</i>	5.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.16	
26 05 33 13-1368	EA		1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	48.60	10.89
			<i>For Installation Above 14', Add</i>	3.27	
			<i>For Work In Restricted Working Space, Add</i>	6.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.54	
26 05 33 13-1369	EA		1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	56.26	12.62
			<i>For Installation Above 14', Add</i>	3.78	
			<i>For Work In Restricted Working Space, Add</i>	7.57	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.57	
26 05 33 13-1370	EA		1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	63.82	14.33
			<i>For Installation Above 14', Add</i>	4.30	
			<i>For Work In Restricted Working Space, Add</i>	8.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.60	
26 05 33 13-1371	EA		2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	76.31	16.06
			<i>For Installation Above 14', Add</i>	4.82	
			<i>For Work In Restricted Working Space, Add</i>	9.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1372 EA 2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	122.11	19.49
For Installation Above 14', Add	5.85	
For Work In Restricted Working Space, Add	11.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.70	
26 05 33 13-1373 EA 3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	151.79	26.95
For Installation Above 14', Add	8.09	
For Work In Restricted Working Space, Add	16.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.17	
26 05 33 13-1374 EA 3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	177.02	30.40
For Installation Above 14', Add	9.12	
For Work In Restricted Working Space, Add	18.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.23	
26 05 33 13-1375 EA 4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	210.42	39.57
For Installation Above 14', Add	11.87	
For Work In Restricted Working Space, Add	23.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.74	
26 05 33 13-1376 EA 5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	292.01	54.48
For Installation Above 14', Add	16.34	
For Work In Restricted Working Space, Add	32.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.69	
26 05 33 13-1377 EA 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	40.14	7.46
For Installation Above 14', Add	2.24	
For Work In Restricted Working Space, Add	4.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.47	
26 05 33 13-1378 EA 3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	43.03	8.60
For Installation Above 14', Add	2.58	
For Work In Restricted Working Space, Add	5.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.16	
26 05 33 13-1379 EA 1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	50.01	10.89
For Installation Above 14', Add	3.27	
For Work In Restricted Working Space, Add	6.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.54	
26 05 33 13-1380 EA 1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	60.57	12.62
For Installation Above 14', Add	3.78	
For Work In Restricted Working Space, Add	7.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.57	
26 05 33 13-1381 EA 1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	70.76	14.33
For Installation Above 14', Add	4.30	
For Work In Restricted Working Space, Add	8.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.60	
26 05 33 13-1382 EA 2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	86.81	16.06
For Installation Above 14', Add	4.82	
For Work In Restricted Working Space, Add	9.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.63	
26 05 33 13-1383 EA 2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	134.57	19.49
For Installation Above 14', Add	5.85	
For Work In Restricted Working Space, Add	11.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.70	
26 05 33 13-1384 EA 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	169.59	26.95
For Installation Above 14', Add	8.09	
For Work In Restricted Working Space, Add	16.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.17	
26 05 33 13-1385 EA 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	201.08	30.40
For Installation Above 14', Add	9.12	
For Work In Restricted Working Space, Add	18.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.23	
26 05 33 13-1386 EA 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	250.95	39.57
For Installation Above 14', Add	11.87	
For Work In Restricted Working Space, Add	23.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.74	
26 05 33 13-1387 EA 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	323.56	54.48
For Installation Above 14', Add	16.34	
For Work In Restricted Working Space, Add	32.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.69	
26 05 33 13-1388 EA 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	41.14	7.46
For Installation Above 14', Add	2.24	
For Work In Restricted Working Space, Add	4.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.47	
26 05 33 13-1389 EA 3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	44.15	8.60
For Installation Above 14', Add	2.58	
For Work In Restricted Working Space, Add	5.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.16	
26 05 33 13-1390 EA 1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	53.61	10.89
For Installation Above 14', Add	3.27	
For Work In Restricted Working Space, Add	6.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.54	
26 05 33 13-1391 EA 1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	67.66	12.62
For Installation Above 14', Add	3.78	
For Work In Restricted Working Space, Add	7.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.57	
26 05 33 13-1392 EA 1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	79.17	14.33
For Installation Above 14', Add	4.30	
For Work In Restricted Working Space, Add	8.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.60	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1393	EA		2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	95.24	16.06
			<i>For Installation Above 14', Add</i>	4.82	
			<i>For Work In Restricted Working Space, Add</i>	9.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.63	
26 05 33 13-1394	EA		2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	151.19	19.49
			<i>For Installation Above 14', Add</i>	5.85	
			<i>For Work In Restricted Working Space, Add</i>	11.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.70	
26 05 33 13-1395	EA		3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	196.28	26.95
			<i>For Installation Above 14', Add</i>	8.09	
			<i>For Work In Restricted Working Space, Add</i>	16.17	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.17	
26 05 33 13-1396	EA		3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	215.83	30.40
			<i>For Installation Above 14', Add</i>	9.12	
			<i>For Work In Restricted Working Space, Add</i>	18.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.23	
26 05 33 13-1397	EA		4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	263.39	39.57
			<i>For Installation Above 14', Add</i>	11.87	
			<i>For Work In Restricted Working Space, Add</i>	23.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.74	
26 05 33 13-1398	EA		5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	328.07	54.48
			<i>For Installation Above 14', Add</i>	16.34	
			<i>For Work In Restricted Working Space, Add</i>	32.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.69	
26 05 33 13-1399			Aluminum Rigid Conduit (ARC) <small>(26 05 33 13-0058)</small>		
			Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1400			Aluminum Rigid Conduit (ARC) With Threaded Coupling <small>(26 05 33 13-1399)</small>		
			Note: Includes field bend conduit up to 1".		
26 05 33 13-1401	LF		1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	5.46	1.76
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.66	
			<i>For Work In Restricted Working Space, Add</i>	1.32	
26 05 33 13-1402	LF		3/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	6.25	1.94
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.73	
			<i>For Work In Restricted Working Space, Add</i>	1.46	
26 05 33 13-1403	LF		1" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	7.28	2.11
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.79	
			<i>For Work In Restricted Working Space, Add</i>	1.59	
26 05 33 13-1404	LF		1-1/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	8.34	2.30
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.86	
			<i>For Work In Restricted Working Space, Add</i>	1.72	
26 05 33 13-1405	LF		1-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	9.41	2.47
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.93	
			<i>For Work In Restricted Working Space, Add</i>	1.85	
26 05 33 13-1406	LF		2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	11.40	2.83
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.06	
			<i>For Work In Restricted Working Space, Add</i>	2.12	
26 05 33 13-1407	LF		2-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	15.67	3.53
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.32	
			<i>For Work In Restricted Working Space, Add</i>	2.65	
26 05 33 13-1408	LF		3" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	19.58	4.24
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.59	
			<i>For Work In Restricted Working Space, Add</i>	3.17	
26 05 33 13-1409	LF		3-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	24.03	5.29
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.98	
			<i>For Work In Restricted Working Space, Add</i>	3.97	
26 05 33 13-1410	LF		4" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	29.57	6.70
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	2.52	
			<i>For Work In Restricted Working Space, Add</i>	5.03	
26 05 33 13-1411	LF		5" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	39.49	8.47
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	3.18	
			<i>For Work In Restricted Working Space, Add</i>	6.35	
26 05 33 13-1412	LF		6" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	50.57	10.58
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	3.97	
			<i>For Work In Restricted Working Space, Add</i>	7.94	
26 05 33 13-1413			Aluminum 90 Degree Elbows <small>(26 05 33 13-1399)</small>		
26 05 33 13-1414	EA		1" Aluminum 90 Degree Elbow.....	34.09	9.17
			<i>For Work In Restricted Working Space, Add</i>	6.88	
26 05 33 13-1415	EA		1-1/4" Aluminum 90 Degree Elbow.....	43.75	10.41
			<i>For Work In Restricted Working Space, Add</i>	7.81	
26 05 33 13-1416	EA		1-1/2" Aluminum 90 Degree Elbow.....	53.58	12.00
			<i>For Work In Restricted Working Space, Add</i>	9.00	
26 05 33 13-1417	EA		2" Aluminum 90 Degree Elbow.....	69.13	13.76
			<i>For Work In Restricted Working Space, Add</i>	10.32	
26 05 33 13-1418	EA		2-1/2" Aluminum 90 Degree Elbow.....	100.41	16.77
			<i>For Work In Restricted Working Space, Add</i>	12.57	
26 05 33 13-1419	EA		3" Aluminum 90 Degree Elbow.....	144.63	21.70
			<i>For Work In Restricted Working Space, Add</i>	16.28	
26 05 33 13-1420	EA		3-1/2" Aluminum 90 Degree Elbow.....	201.81	24.35
			<i>For Work In Restricted Working Space, Add</i>	18.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1421 EA 4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	243.43 22.89	30.53
26 05 33 13-1422 EA 5" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	618.52 37.32	49.76
26 05 33 13-1423 EA 6" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	870.70 56.11	74.82
26 05 33 13-1424 Aluminum Bushing Set With Locknut <small>(26 05 33 13-1399)</small>		
26 05 33 13-1425 EA 1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.67 2.65 2.65	3.53
26 05 33 13-1426 EA 3/4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.89 3.44 3.44	4.59
26 05 33 13-1427 EA 1" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66 4.23 4.23	5.64
26 05 33 13-1428 EA 1-1/4" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.50 4.77 4.77	6.35
26 05 33 13-1429 EA 1-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.20 5.82 5.82	7.77
26 05 33 13-1430 EA 2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.68 7.01 7.01	9.35
26 05 33 13-1431 EA 2-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.43 8.34 8.34	11.11
26 05 33 13-1432 EA 3" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.68 9.53 9.53	12.71
26 05 33 13-1433 EA 3-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.58 10.32 10.32	13.76
26 05 33 13-1434 EA 4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.05 11.12 11.12	14.82
26 05 33 13-1435 EA 5" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.67 14.82 14.82	19.76
26 05 33 13-1436 EA 6" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.69 22.23 22.23	29.65
26 05 33 13-1437 Schedule 40 Polyvinyl Chloride (PVC) Conduit <small>(26 05 33 13-0058)</small>		
<i>Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.</i>		
26 05 33 13-1438 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings <small>(26 05 33 13-1437)</small>		
<i>Note: Includes field bend conduit up to 1".</i>		
26 05 33 13-1439 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	3.55 0.21 0.40	1.35
26 05 33 13-1440 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	3.94 0.24 0.45	1.48
26 05 33 13-1441 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	4.68 0.30 0.56	1.73
26 05 33 13-1442 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	5.40 0.36 0.66	1.97
26 05 33 13-1443 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	6.32 0.43 0.77	2.30
26 05 33 13-1444 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	7.33 0.51 0.92	2.63
26 05 33 13-1445 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	8.99 0.68 1.19	3.12
26 05 33 13-1446 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	10.44 0.80 1.39	3.63
26 05 33 13-1447 LF 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	12.49 0.98 1.69	4.28
26 05 33 13-1448 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	15.13 1.15 2.00	5.27
26 05 33 13-1449 LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	21.42 1.65 2.86	7.41

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1450 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	28.51	9.88
For Schedule 60, Add	2.19	
For Schedule 80, Add	3.80	
26 05 33 13-1451 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows (26 05 33 13-1437)		
See CSI section 26 05 33 13-2423 for conduit field bending.		
26 05 33 13-1452 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	17.29	6.59
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.03	
For Schedule 80, Add	1.94	
26 05 33 13-1453 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	19.11	7.24
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.15	
For Schedule 80, Add	2.16	
26 05 33 13-1454 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	22.13	8.23
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.42	
For Schedule 80, Add	2.60	
26 05 33 13-1455 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	28.58	10.54
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.88	
For Schedule 80, Add	3.42	
26 05 33 13-1456 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	35.96	13.17
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	2.40	
For Schedule 80, Add	4.35	
26 05 33 13-1457 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	45.34	16.46
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	3.10	
For Schedule 80, Add	5.58	
26 05 33 13-1458 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	56.81	19.76
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	4.32	
For Schedule 80, Add	7.53	
26 05 33 13-1459 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	69.75	23.05
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	5.91	
For Schedule 80, Add	10.00	
26 05 33 13-1460 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	86.84	27.99
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	7.71	
For Schedule 80, Add	12.90	
26 05 33 13-1461 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	104.01	32.93
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	9.54	
For Schedule 80, Add	15.82	
26 05 33 13-1462 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	141.11	41.16
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	14.69	
For Schedule 80, Add	23.66	
26 05 33 13-1463 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	172.19	49.40
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	18.35	
For Schedule 80, Add	29.39	
26 05 33 13-1464 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows (26 05 33 13-1437)		
See CSI section 26 05 33 13-2423 for conduit field bending.		
26 05 33 13-1465 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow	17.29	6.59
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.03	
For Schedule 80, Add	1.94	
26 05 33 13-1466 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow	19.05	7.24
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.14	
For Schedule 80, Add	2.14	
26 05 33 13-1467 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow	22.04	8.23
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.39	
For Schedule 80, Add	2.57	
26 05 33 13-1468 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow	28.34	10.54
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.82	
For Schedule 80, Add	3.33	
26 05 33 13-1469 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow	35.42	13.17
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	2.27	
For Schedule 80, Add	4.16	
26 05 33 13-1470 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow	45.06	16.46
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	3.03	
For Schedule 80, Add	5.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1471 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	56.27	19.76
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	4.19	
For Schedule 80, Add	7.34	
26 05 33 13-1472 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	69.07	23.05
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	5.74	
For Schedule 80, Add	9.76	
26 05 33 13-1473 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	84.92	27.99
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	7.23	
For Schedule 80, Add	12.22	
26 05 33 13-1474 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	102.36	32.93
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	9.12	
For Schedule 80, Add	15.24	
26 05 33 13-1475 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	138.98	41.16
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	14.16	
For Schedule 80, Add	22.91	
26 05 33 13-1476 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	165.83	49.40
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	16.76	
For Schedule 80, Add	27.17	
26 05 33 13-1477 Polyvinyl Chloride (PVC) Conduit Female Adapters (26 05 33 13-1437)		
26 05 33 13-1478 EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	11.91	4.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.46	
26 05 33 13-1479 EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	13.69	5.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.95	
26 05 33 13-1480 EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	15.53	5.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.45	
26 05 33 13-1481 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	17.44	6.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94	
26 05 33 13-1482 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	21.64	8.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.17	
26 05 33 13-1483 EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	26.21	9.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.41	
26 05 33 13-1484 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	35.72	13.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.88	
26 05 33 13-1485 EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	44.97	16.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.35	
26 05 33 13-1486 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	58.35	21.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.06	
26 05 33 13-1487 EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	70.92	26.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.76	
26 05 33 13-1488 EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	92.52	32.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.70	
26 05 33 13-1489 EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	115.21	41.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.88	
26 05 33 13-1490 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug (26 05 33 13-1437)		
26 05 33 13-1491 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	12.98	3.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.96	
26 05 33 13-1492 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	14.85	4.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.46	
26 05 33 13-1493 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	16.73	5.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.95	
26 05 33 13-1494 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	19.71	5.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.45	
26 05 33 13-1495 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	21.95	6.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94	
26 05 33 13-1496 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	26.16	7.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.68	
26 05 33 13-1497 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	29.31	8.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.42	
26 05 33 13-1498 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	33.31	9.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.41	
26 05 33 13-1499 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	39.34	11.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.64	
26 05 33 13-1500 EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	43.68	13.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.88	
26 05 33 13-1501 EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	54.07	14.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.12	
26 05 33 13-1502 EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	60.68	16.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.35	
26 05 33 13-1503 Polyvinyl Chloride (PVC) Conduit Terminal Adapters (26 05 33 13-1437)		
26 05 33 13-1504 EA 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	12.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.80	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1505 EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	15.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-1506 EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	17.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.06	
26 05 33 13-1507 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	19.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-1508 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	21.51	8.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.17	
26 05 33 13-1509 EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	26.03	9.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.41	
26 05 33 13-1510 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	35.36	13.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.88	
26 05 33 13-1511 EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	44.46	16.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.35	
26 05 33 13-1512 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	57.70	21.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.06	
26 05 33 13-1513 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	70.25	26.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.76	
26 05 33 13-1514 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	91.20	32.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.70	
26 05 33 13-1515 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	113.64	41.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.88	
26 05 33 13-1516 Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover <small>(26 05 33 13-1437)</small>		
26 05 33 13-1517 EA 1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	36.48	13.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.88	
26 05 33 13-1518 EA 3/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	42.07	14.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.12	
26 05 33 13-1519 EA 1" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	46.72	16.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.35	
26 05 33 13-1520 EA 1-1/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	57.34	19.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.82	
26 05 33 13-1521 EA 1-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	71.04	24.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.53	
26 05 33 13-1522 EA 2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	90.57	29.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.23	
26 05 33 13-1523 EA 2-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	144.14	32.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.70	
26 05 33 13-1524 EA 3" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	154.53	36.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.17	
26 05 33 13-1525 EA 3-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	169.03	41.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.88	
26 05 33 13-1526 EA 4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	189.80	47.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.81	
26 05 33 13-1527 Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover <small>(26 05 33 13-1437)</small>		
26 05 33 13-1528 EA 1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	48.83	17.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.23	
26 05 33 13-1529 EA 3/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	54.45	19.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.56	
26 05 33 13-1530 EA 1" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	58.99	21.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.88	
26 05 33 13-1531 EA 1-1/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	72.69	24.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.53	
26 05 33 13-1532 EA 1-1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	87.90	30.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.50	
26 05 33 13-1533 EA 2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	107.77	35.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.47	
26 05 33 13-1534 Polyvinyl Chloride (PVC) Conduit Expansion Joint <small>(26 05 33 13-1437)</small>		
26 05 33 13-1535 EA 1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	71.49	16.46
26 05 33 13-1536 EA 3/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	80.50	19.76
26 05 33 13-1537 EA 1" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	89.96	23.05
26 05 33 13-1538 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	98.96	26.35
26 05 33 13-1539 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	107.77	29.64
26 05 33 13-1540 EA 2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	118.04	32.93
26 05 33 13-1541 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	142.96	37.88
26 05 33 13-1542 EA 3" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	169.69	42.81
26 05 33 13-1543 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	198.18	49.40
26 05 33 13-1544 EA 4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	235.07	57.64
26 05 33 13-1545 EA 5" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	306.48	69.16
26 05 33 13-1546 EA 6" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	401.76	88.92
26 05 33 13-1547 Polyvinyl Chloride (PVC) Conduit End Caps <small>(26 05 33 13-1437)</small>		
26 05 33 13-1548 EA 1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....	9.82	3.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1549 EA 3/4" Polyvinyl Chloride (PVC) Conduit End Cap..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.65 2.96	3.96
26 05 33 13-1550 EA 1" Polyvinyl Chloride (PVC) Conduit End Cap..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.45 3.46	4.61
26 05 33 13-1551 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit End Cap..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.92 3.95	5.27
26 05 33 13-1552 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit End Cap..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.44 4.45	5.93
26 05 33 13-1553 EA 2" Polyvinyl Chloride (PVC) Conduit End Cap..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.52 4.94	6.59
26 05 33 13-1554 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit End Cap..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.67 5.68	7.57
26 05 33 13-1555 EA 3" Polyvinyl Chloride (PVC) Conduit End Cap..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.65 6.42	8.56
26 05 33 13-1556 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit End Cap..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.92 7.16	9.55
26 05 33 13-1557 EA 4" Polyvinyl Chloride (PVC) Conduit End Cap..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.72 7.66	10.21
26 05 33 13-1558 EA 5" Polyvinyl Chloride (PVC) Conduit End Cap..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.42 8.64	11.53
26 05 33 13-1559 EA 6" Polyvinyl Chloride (PVC) Conduit End Cap..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.55 9.88	13.17
26 05 33 13-1560 Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) <small>(26 05 33 13-1437)</small>		
26 05 33 13-1561 EA 2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways EZLB200)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.89 22.23	29.64
26 05 33 13-1562 EA 3/4" To 1-1/4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB121)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.37 14.82	19.76
26 05 33 13-1563 EA 1-1/2" To 2-1/2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB251)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	211.00 24.70	32.93
26 05 33 13-1564 EA 3" To 4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB401)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	399.36 35.81	47.75
26 05 33 13-1565 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-0058)</small> Note: Exposed installation. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1566 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-1565)</small>		
26 05 33 13-1567 LF 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	5.35	1.35
26 05 33 13-1568 LF 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	5.94	1.48
26 05 33 13-1569 LF 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	6.68	1.71
26 05 33 13-1570 LF 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	7.42	1.97
26 05 33 13-1571 LF 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	8.45	2.30
26 05 33 13-1572 LF 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	9.35	2.63
26 05 33 13-1573 LF 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	11.12	3.12
26 05 33 13-1574 LF 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	13.01	3.63
26 05 33 13-1575 LF 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	15.17	4.28
26 05 33 13-1576 LF 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	18.12	5.27
26 05 33 13-1577 LF 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	24.72	7.41
26 05 33 13-1578 LF 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	32.44	9.88
26 05 33 13-1579 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1565)</small>		
26 05 33 13-1580 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	53.03 3.57 5.30 7.04	6.59
26 05 33 13-1581 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	59.06 3.98 5.91 7.84	7.24
26 05 33 13-1582 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	61.94 4.13 6.19 8.26	8.23
26 05 33 13-1583 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	68.11 4.45 6.81 9.17	10.54
26 05 33 13-1584 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	75.10 4.81 7.51 10.21	13.17

26 Electrical
26 05 Common Work Results For Electrical
26 05 33 Raceway And Boxes For Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1585	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....89.15	89.15	16.46
			<i>For 24" Radius, Add</i>	5.66	
			<i>For 36" Radius, Add</i>	8.92	
			<i>For 48" Radius, Add</i>	12.17	
26 05 33 13-1586	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....106.84	106.84	19.76
			<i>For 24" Radius, Add</i>	6.78	
			<i>For 36" Radius, Add</i>	10.68	
			<i>For 48" Radius, Add</i>	14.59	
26 05 33 13-1587	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....126.57	126.57	23.05
			<i>For 24" Radius, Add</i>	8.05	
			<i>For 36" Radius, Add</i>	12.66	
			<i>For 48" Radius, Add</i>	17.26	
26 05 33 13-1588	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....147.53	147.53	27.99
			<i>For 24" Radius, Add</i>	9.32	
			<i>For 36" Radius, Add</i>	14.75	
			<i>For 48" Radius, Add</i>	20.19	
26 05 33 13-1589	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....168.49	168.49	32.93
			<i>For 24" Radius, Add</i>	10.58	
			<i>For 36" Radius, Add</i>	16.85	
			<i>For 48" Radius, Add</i>	23.12	
26 05 33 13-1590	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....210.62	210.62	41.16
			<i>For 24" Radius, Add</i>	13.22	
			<i>For 36" Radius, Add</i>	21.06	
			<i>For 48" Radius, Add</i>	28.90	
26 05 33 13-1591	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows .....258.12	258.12	49.40
			<i>For 24" Radius, Add</i>	16.27	
			<i>For 36" Radius, Add</i>	25.81	
			<i>For 48" Radius, Add</i>	35.35	
26 05 33 13-1592 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1565)</small>					
26 05 33 13-1593	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows .....46.44	46.44	6.59
			<i>For 24" Radius, Add</i>	3.07	
			<i>For 36" Radius, Add</i>	4.64	
			<i>For 48" Radius, Add</i>	6.22	
26 05 33 13-1594	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows .....51.69	51.69	7.24
			<i>For 24" Radius, Add</i>	3.42	
			<i>For 36" Radius, Add</i>	5.17	
			<i>For 48" Radius, Add</i>	6.91	
26 05 33 13-1595	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows .....54.49	54.49	8.23
			<i>For 24" Radius, Add</i>	3.57	
			<i>For 36" Radius, Add</i>	5.45	
			<i>For 48" Radius, Add</i>	7.33	
26 05 33 13-1596	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows .....60.59	60.59	10.54
			<i>For 24" Radius, Add</i>	3.89	
			<i>For 36" Radius, Add</i>	6.06	
			<i>For 48" Radius, Add</i>	8.23	
26 05 33 13-1597	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows .....67.51	67.51	13.17
			<i>For 24" Radius, Add</i>	4.24	
			<i>For 36" Radius, Add</i>	6.75	
			<i>For 48" Radius, Add</i>	9.26	
26 05 33 13-1598	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows .....80.51	80.51	16.46
			<i>For 24" Radius, Add</i>	5.01	
			<i>For 36" Radius, Add</i>	8.05	
			<i>For 48" Radius, Add</i>	11.09	
26 05 33 13-1599	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows .....96.50	96.50	19.76
			<i>For 24" Radius, Add</i>	6.00	
			<i>For 36" Radius, Add</i>	9.65	
			<i>For 48" Radius, Add</i>	13.30	
26 05 33 13-1600	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows .....114.16	114.16	23.05
			<i>For 24" Radius, Add</i>	7.12	
			<i>For 36" Radius, Add</i>	11.42	
			<i>For 48" Radius, Add</i>	15.71	
26 05 33 13-1601	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows .....133.57	133.57	27.99
			<i>For 24" Radius, Add</i>	8.27	
			<i>For 36" Radius, Add</i>	13.36	
			<i>For 48" Radius, Add</i>	18.45	
26 05 33 13-1602	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows .....152.98	152.98	32.93
			<i>For 24" Radius, Add</i>	9.42	
			<i>For 36" Radius, Add</i>	15.30	
			<i>For 48" Radius, Add</i>	21.18	
26 05 33 13-1603	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows .....191.23	191.23	41.16
			<i>For 24" Radius, Add</i>	11.77	
			<i>For 36" Radius, Add</i>	19.12	
			<i>For 48" Radius, Add</i>	26.48	
26 05 33 13-1604	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows .....233.89	233.89	49.40
			<i>For 24" Radius, Add</i>	14.45	
			<i>For 36" Radius, Add</i>	23.39	
			<i>For 48" Radius, Add</i>	32.32	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1605				Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1605)</small>		
26 05 33 13-1606	EA			1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	42.98	5.93
				For 24" Radius, Add	2.85	
				For 36" Radius, Add	4.30	
				For 48" Radius, Add	5.74	
26 05 33 13-1607	EA			3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	47.82	6.52
				For 24" Radius, Add	3.18	
				For 36" Radius, Add	4.78	
				For 48" Radius, Add	6.39	
26 05 33 13-1608	EA			1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	50.37	7.41
				For 24" Radius, Add	3.31	
				For 36" Radius, Add	5.04	
				For 48" Radius, Add	6.76	
26 05 33 13-1609	EA			1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	55.87	9.48
				For 24" Radius, Add	3.60	
				For 36" Radius, Add	5.59	
				For 48" Radius, Add	7.58	
26 05 33 13-1610	EA			1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	62.11	11.86
				For 24" Radius, Add	3.92	
				For 36" Radius, Add	6.21	
				For 48" Radius, Add	8.50	
26 05 33 13-1611	EA			2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	74.00	14.82
				For 24" Radius, Add	4.62	
				For 36" Radius, Add	7.40	
				For 48" Radius, Add	10.18	
26 05 33 13-1612	EA			2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	88.69	17.79
				For 24" Radius, Add	5.54	
				For 36" Radius, Add	8.87	
				For 48" Radius, Add	12.20	
26 05 33 13-1613	EA			3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	104.94	20.75
				For 24" Radius, Add	6.57	
				For 36" Radius, Add	10.49	
				For 48" Radius, Add	14.41	
26 05 33 13-1614	EA			3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	122.69	25.20
				For 24" Radius, Add	7.63	
				For 36" Radius, Add	12.27	
				For 48" Radius, Add	16.91	
26 05 33 13-1615	EA			4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	140.44	29.64
				For 24" Radius, Add	8.68	
				For 36" Radius, Add	14.04	
				For 48" Radius, Add	19.41	
26 05 33 13-1616	EA			5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	175.56	37.05
				For 24" Radius, Add	10.85	
				For 36" Radius, Add	17.56	
				For 48" Radius, Add	24.26	
26 05 33 13-1617	EA			6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	214.81	44.46
				For 24" Radius, Add	13.33	
				For 36" Radius, Add	21.48	
				For 48" Radius, Add	29.63	
26 05 33 13-1618				Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1618)</small>		
26 05 33 13-1619	EA			1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	41.15	5.93
				For 24" Radius, Add	2.72	
				For 36" Radius, Add	4.12	
				For 48" Radius, Add	5.51	
26 05 33 13-1620	EA			3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	45.78	6.52
				For 24" Radius, Add	3.03	
				For 36" Radius, Add	4.58	
				For 48" Radius, Add	6.13	
26 05 33 13-1621	EA			1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	48.31	7.41
				For 24" Radius, Add	3.16	
				For 36" Radius, Add	4.83	
				For 48" Radius, Add	6.50	
26 05 33 13-1622	EA			1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	53.79	9.48
				For 24" Radius, Add	3.44	
				For 36" Radius, Add	5.38	
				For 48" Radius, Add	7.32	
26 05 33 13-1623	EA			1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	60.00	11.86
				For 24" Radius, Add	3.76	
				For 36" Radius, Add	6.00	
				For 48" Radius, Add	8.24	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1624 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	71.60	14.82
For 24" Radius, Add	4.44	
For 36" Radius, Add	7.16	
For 48" Radius, Add	9.88	
26 05 33 13-1625 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	85.82	17.79
For 24" Radius, Add	5.33	
For 36" Radius, Add	8.58	
For 48" Radius, Add	11.84	
26 05 33 13-1626 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	101.50	20.75
For 24" Radius, Add	6.32	
For 36" Radius, Add	10.15	
For 48" Radius, Add	13.98	
26 05 33 13-1627 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	118.81	25.20
For 24" Radius, Add	7.34	
For 36" Radius, Add	11.88	
For 48" Radius, Add	16.43	
26 05 33 13-1628 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	136.13	29.64
For 24" Radius, Add	8.36	
For 36" Radius, Add	13.61	
For 48" Radius, Add	18.87	
26 05 33 13-1629 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	170.17	37.05
For 24" Radius, Add	10.45	
For 36" Radius, Add	17.02	
For 48" Radius, Add	23.59	
26 05 33 13-1630 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	208.08	44.46
For 24" Radius, Add	12.83	
For 36" Radius, Add	20.81	
For 48" Radius, Add	28.79	
26 05 33 13-1631 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-1665)		
26 05 33 13-1632 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	26.67	4.61
26 05 33 13-1633 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	30.04	5.27
26 05 33 13-1634 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	31.86	5.93
26 05 33 13-1635 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	33.65	6.59
26 05 33 13-1636 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	38.11	8.23
26 05 33 13-1637 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	45.58	9.88
26 05 33 13-1638 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	58.06	13.17
26 05 33 13-1639 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	71.31	16.46
26 05 33 13-1640 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	87.44	21.40
26 05 33 13-1641 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	103.56	26.35
26 05 33 13-1642 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	129.44	32.93
26 05 33 13-1643 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	161.79	41.16
26 05 33 13-1644 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-1665)		
26 05 33 13-1645 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	20.07	4.61
26 05 33 13-1646 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	22.66	5.27
26 05 33 13-1647 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	24.41	5.93
26 05 33 13-1648 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	26.15	6.59
26 05 33 13-1649 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	30.37	8.23
26 05 33 13-1650 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	34.55	9.88
26 05 33 13-1651 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	44.75	13.17
26 05 33 13-1652 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	55.35	16.46
26 05 33 13-1653 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	69.48	21.40
26 05 33 13-1654 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	83.60	26.35
26 05 33 13-1655 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	104.52	32.93
26 05 33 13-1656 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	130.63	41.16
26 05 33 13-1657 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings (26 05 33 13-1665)		
26 05 33 13-1658 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	22.15	3.79
26 05 33 13-1659 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	24.97	5.27
26 05 33 13-1660 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	26.75	5.93
26 05 33 13-1661 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	28.46	6.59
26 05 33 13-1662 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	32.86	8.23
26 05 33 13-1663 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	39.32	9.88
26 05 33 13-1664 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	50.46	13.17
26 05 33 13-1665 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	62.20	16.46
26 05 33 13-1666 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	77.18	21.40
26 05 33 13-1667 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	92.16	26.35
26 05 33 13-1668 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	115.18	32.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1669 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	144.00	41.16
26 05 33 13-1670 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints <small>(26 05 33 13-1665)</small>		
26 05 33 13-1671 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	52.86	16.46
26 05 33 13-1672 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	62.38	19.76
26 05 33 13-1673 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	70.76	23.05
26 05 33 13-1674 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	79.08	26.35
26 05 33 13-1675 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	87.61	29.64
26 05 33 13-1676 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	98.41	32.93
26 05 33 13-1677 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	113.98	37.88
26 05 33 13-1678 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	130.19	42.81
26 05 33 13-1679 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	149.56	49.40
26 05 33 13-1680 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	173.04	57.64
26 05 33 13-1681 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	200.86	65.87
26 05 33 13-1682 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	230.48	74.10
26 05 33 13-1683 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints <small>(26 05 33 13-1665)</small>		
26 05 33 13-1684 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	57.62	16.46
26 05 33 13-1685 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	67.71	19.76
26 05 33 13-1686 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	76.12	23.05
26 05 33 13-1687 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	84.49	26.35
26 05 33 13-1688 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	93.07	29.64
26 05 33 13-1689 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	104.64	32.93
26 05 33 13-1690 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	121.46	37.88
26 05 33 13-1691 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	139.17	42.81
26 05 33 13-1692 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	159.66	49.40
26 05 33 13-1693 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	184.27	57.64
26 05 33 13-1694 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	214.93	65.87
26 05 33 13-1695 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	248.07	74.10
26 05 33 13-1696 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters <small>(26 05 33 13-1665)</small>		
26 05 33 13-1697 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	50.66	4.61
26 05 33 13-1698 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	56.64	5.27
26 05 33 13-1699 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	59.62	5.93
26 05 33 13-1700 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	62.65	6.59
26 05 33 13-1701 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	67.49	8.23
26 05 33 13-1702 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	76.08	9.88
26 05 33 13-1703 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	94.59	13.17
26 05 33 13-1704 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	115.11	16.46
26 05 33 13-1705 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	136.72	21.40
26 05 33 13-1706 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	158.32	26.35
26 05 33 13-1707 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	197.92	32.93
26 05 33 13-1708 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	246.52	41.16
26 05 33 13-1709 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints <small>(26 05 33 13-1665)</small>		
26 05 33 13-1710 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	65.88	16.46
26 05 33 13-1711 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	76.87	19.76
26 05 33 13-1712 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	91.57	23.05
26 05 33 13-1713 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	111.62	26.35
26 05 33 13-1714 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	136.82	29.64
26 05 33 13-1715 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	175.28	32.93
26 05 33 13-1716 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	240.95	37.88
26 05 33 13-1717 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	288.40	42.81
26 05 33 13-1718 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	346.56	49.40
26 05 33 13-1719 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	408.84	57.64
26 05 33 13-1720 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	479.15	65.87
26 05 33 13-1721 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	719.13	74.10
26 05 33 13-1722 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover <small>(26 05 33 13-1665)</small>		
26 05 33 13-1723 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	54.81	13.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.88	
26 05 33 13-1724 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	63.14	14.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.12	
26 05 33 13-1725 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	80.94	16.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.35	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1726	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	98.55	19.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.82	
26 05 33 13-1727	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	124.94	24.70
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.53	
26 05 33 13-1728	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	167.71	29.64
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.23	
26 05 33 13-1729	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	261.97	34.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.94	
26 05 33 13-1730	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	332.83	39.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.64	
26 05 33 13-1731	EA		3-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	399.02	46.11
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.58	
26 05 33 13-1732	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	465.22	52.69
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.52	
26 05 33 13-1733	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	546.05	59.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.46	
26 05 33 13-1734	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	618.10	65.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.40	
26 05 33 13-1735			Explosion Proof Conduit Fittings <small>(26 05 33 13-0058)</small> Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT) and Intermediate Metal Conduit (IMC) conduit.		
26 05 33 13-1736			Explosion Proof Malleable Iron Conduit Unions <small>(26 05 33 13-1735)</small>		
26 05 33 13-1737	EA		1/2" Explosion Proof Malleable Iron Conduit Union	35.77	7.34
26 05 33 13-1738	EA		3/4" Explosion Proof Malleable Iron Conduit Union	44.26	8.12
26 05 33 13-1739	EA		1" Explosion Proof Malleable Iron Conduit Union	70.55	10.83
26 05 33 13-1740	EA		1-1/4" Explosion Proof Malleable Iron Conduit Union	93.78	11.98
26 05 33 13-1741	EA		1-1/2" Explosion Proof Malleable Iron Conduit Union	118.07	14.69
26 05 33 13-1742	EA		2" Explosion Proof Malleable Iron Conduit Union	147.32	17.01
26 05 33 13-1743	EA		2-1/2" Explosion Proof Malleable Iron Conduit Union	224.47	24.32
26 05 33 13-1744	EA		3" Explosion Proof Malleable Iron Conduit Union	285.62	28.95
26 05 33 13-1745	EA		3-1/2" Explosion Proof Malleable Iron Conduit Union	481.90	34.74
26 05 33 13-1746	EA		4" Explosion Proof Malleable Iron Conduit Union	509.87	44.40
26 05 33 13-1747			Explosion Proof Malleable Iron Conduit Bodies <small>(26 05 33 13-1735)</small>		
26 05 33 13-1748	EA		1/2" Explosion Proof Malleable Iron Two Hub Conduit Body	127.15	23.20
26 05 33 13-1749	EA		3/4" Explosion Proof Malleable Iron Two Hub Conduit Body	143.30	26.29
26 05 33 13-1750	EA		1" Explosion Proof Malleable Iron Two Hub Conduit Body	168.13	28.99
26 05 33 13-1751	EA		1/2" Explosion Proof Malleable Iron Three Hub Conduit Body	142.96	28.99
26 05 33 13-1752	EA		3/4" Explosion Proof Malleable Iron Three Hub Conduit Body	170.27	34.79
26 05 33 13-1753	EA		1" Explosion Proof Malleable Iron Three Hub Conduit Body	201.76	39.81
26 05 33 13-1754			Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <small>(26 05 33 13-1735)</small> Note: Includes sealing gasket and lock nut.		
26 05 33 13-1755	EA		1/2" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	105.14	19.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.50	
26 05 33 13-1756	EA		3/4" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	107.09	21.64
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.24	
26 05 33 13-1757	EA		1" x 1-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	116.90	23.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.69	
26 05 33 13-1758	EA		1-1/4" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	150.50	28.99
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.74	
26 05 33 13-1759	EA		1-1/2" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	192.69	34.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.51	
26 05 33 13-1760	EA		2" x 2-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	248.59	38.66
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.99	
26 05 33 13-1761	EA		2-1/2" x 3" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	353.42	57.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.43	
26 05 33 13-1762	EA		3" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	446.82	72.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.43	
26 05 33 13-1763	EA		3-1/2" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	635.31	79.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.93	
26 05 33 13-1764	EA		4" x 5" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	822.83	86.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.14	
26 05 33 13-1765			Explosion Proof Flexible Conduit Couplings <small>(26 05 33 13-1735)</small>		
26 05 33 13-1766	EA		1/2" x 12" Explosion Proof Flexible Conduit Coupling	289.96	8.89
26 05 33 13-1767	EA		3/4" x 15" Explosion Proof Flexible Conduit Coupling	379.69	10.05



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1768		Flexible Conduit <small>(26 05 33 13-0057)</small>		
26 05 33	13-1769		Flexible Liquid Tight Metallic Conduit And Connectors <small>(26 05 33 13-1768)</small> Note: Steel inner core with PVC cover.		
26 05 33	13-1770		Flexible Liquid Tight Metallic Conduit <small>(26 05 33 13-1769)</small>		
26 05 33	13-1771	LF	3/8" Flexible Liquid Tight Metallic Conduit.....	3.63	1.06
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.40	
			<i>For Work In Restricted Working Space, Add</i>	0.80	
26 05 33	13-1772	LF	1/2" Flexible Liquid Tight Metallic Conduit.....	3.77	1.06
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.40	
			<i>For Work In Restricted Working Space, Add</i>	0.80	
26 05 33	13-1773	LF	3/4" Flexible Liquid Tight Metallic Conduit.....	5.06	1.41
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.53	
			<i>For Work In Restricted Working Space, Add</i>	1.06	
26 05 33	13-1774	LF	1" Flexible Liquid Tight Metallic Conduit.....	5.83	1.41
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.53	
			<i>For Work In Restricted Working Space, Add</i>	1.06	
26 05 33	13-1775	LF	1-1/4" Flexible Liquid Tight Metallic Conduit.....	7.55	1.76
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.66	
			<i>For Work In Restricted Working Space, Add</i>	1.32	
26 05 33	13-1776	LF	1-1/2" Flexible Liquid Tight Metallic Conduit.....	9.70	2.11
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.79	
			<i>For Work In Restricted Working Space, Add</i>	1.59	
26 05 33	13-1777	LF	2" Flexible Liquid Tight Metallic Conduit.....	12.76	2.83
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.06	
			<i>For Work In Restricted Working Space, Add</i>	2.12	
26 05 33	13-1778	LF	2-1/2" Flexible Liquid Tight Metallic Conduit.....	17.36	3.18
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.19	
			<i>For Work In Restricted Working Space, Add</i>	2.38	
26 05 33	13-1779	LF	3" Flexible Liquid Tight Metallic Conduit.....	25.54	3.88
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.46	
			<i>For Work In Restricted Working Space, Add</i>	2.91	
26 05 33	13-1780	LF	4" Flexible Liquid Tight Metallic Conduit.....	34.96	4.94
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.85	
			<i>For Work In Restricted Working Space, Add</i>	3.71	
26 05 33	13-1781		Straight Liquid Tight Connector <small>(26 05 33 13-1769)</small>		
26 05 33	13-1782	EA	3/8" Straight Liquid Tight Connector.....	9.85	2.83
			<i>For Work In Restricted Working Space, Add</i>	2.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.12	
26 05 33	13-1783	EA	1/2" Straight Liquid Tight Connector.....	9.85	2.83
			<i>For Work In Restricted Working Space, Add</i>	2.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.12	
26 05 33	13-1784	EA	3/4" Straight Liquid Tight Connector.....	11.94	3.18
			<i>For Work In Restricted Working Space, Add</i>	2.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.38	
26 05 33	13-1785	EA	1" Straight Liquid Tight Connector.....	15.96	3.53
			<i>For Work In Restricted Working Space, Add</i>	2.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.65	
26 05 33	13-1786	EA	1-1/4" Straight Liquid Tight Connector.....	20.50	3.88
			<i>For Work In Restricted Working Space, Add</i>	2.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.91	
26 05 33	13-1787	EA	1-1/2" Straight Liquid Tight Connector.....	25.99	4.24
			<i>For Work In Restricted Working Space, Add</i>	3.17	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.17	
26 05 33	13-1788	EA	2" Straight Liquid Tight Connector.....	35.82	4.94
			<i>For Work In Restricted Working Space, Add</i>	3.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.71	
26 05 33	13-1789	EA	2-1/2" Straight Liquid Tight Connector.....	122.44	6.35
			<i>For Work In Restricted Working Space, Add</i>	4.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.77	
26 05 33	13-1790	EA	3" Straight Liquid Tight Connector.....	157.88	6.70
			<i>For Work In Restricted Working Space, Add</i>	5.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33	13-1791	EA	4" Straight Liquid Tight Connector.....	193.22	9.88
			<i>For Work In Restricted Working Space, Add</i>	7.41	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.41	
26 05 33	13-1792		90 Degree Angle Liquid Tight Connector <small>(26 05 33 13-1769)</small>		
26 05 33	13-1793	EA	3/8" 90 Degree Angle Liquid Tight Connector.....	14.37	3.88
			<i>For Work In Restricted Working Space, Add</i>	2.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.91	
26 05 33	13-1794	EA	1/2" 90 Degree Angle Liquid Tight Connector.....	14.97	3.88
			<i>For Work In Restricted Working Space, Add</i>	2.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.91	
26 05 33	13-1795	EA	3/4" 90 Degree Angle Liquid Tight Connector.....	16.92	4.24
			<i>For Work In Restricted Working Space, Add</i>	3.17	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.17	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1796 EA 1" 90 Degree Angle Liquid Tight Connector.....	23.87	4.94
For Work In Restricted Working Space, Add	3.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.71	
26 05 33 13-1797 EA 1-1/4" 90 Degree Angle Liquid Tight Connector.....	30.08	5.29
For Work In Restricted Working Space, Add	3.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.97	
26 05 33 13-1798 EA 1-1/2" 90 Degree Angle Liquid Tight Connector.....	36.49	5.64
For Work In Restricted Working Space, Add	4.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.23	
26 05 33 13-1799 EA 2" 90 Degree Angle Liquid Tight Connector.....	48.29	6.35
For Work In Restricted Working Space, Add	4.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.77	
26 05 33 13-1800 EA 2-1/2" 90 Degree Angle Liquid Tight Connector.....	171.07	6.70
For Work In Restricted Working Space, Add	5.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.03	
26 05 33 13-1801 EA 3" 90 Degree Angle Liquid Tight Connector.....	202.13	7.77
For Work In Restricted Working Space, Add	5.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.82	
26 05 33 13-1802 EA 4" 90 Degree Angle Liquid Tight Connector.....	279.60	12.35
For Work In Restricted Working Space, Add	9.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.26	
26 05 33 13-1803 45 Degree Angle Connector <small>(26 05 33 13-1769)</small>		
26 05 33 13-1804 EA 3/8" 45 Degree Angle Liquid Tight Connector.....	14.16	3.88
For Work In Restricted Working Space, Add	2.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.91	
26 05 33 13-1805 EA 1/2" 45 Degree Angle Liquid Tight Connector.....	14.31	3.88
For Work In Restricted Working Space, Add	2.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.91	
26 05 33 13-1806 EA 3/4" 45 Degree Angle Liquid Tight Connector.....	16.92	4.24
For Work In Restricted Working Space, Add	3.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.17	
26 05 33 13-1807 EA 1" 45 Degree Angle Liquid Tight Connector.....	25.51	4.94
For Work In Restricted Working Space, Add	3.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.71	
26 05 33 13-1808 EA 1-1/4" 45 Degree Angle Liquid Tight Connector.....	29.01	5.29
For Work In Restricted Working Space, Add	3.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.97	
26 05 33 13-1809 EA 1-1/2" 45 Degree Angle Liquid Tight Connector.....	32.51	5.64
For Work In Restricted Working Space, Add	4.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.23	
26 05 33 13-1810 Flexible Metallic Conduit And Connectors <small>(26 05 33 13-1768)</small>		
26 05 33 13-1811 Flexible Steel Conduit <small>(26 05 33 13-1810)</small>		
26 05 33 13-1812 LF 3/8" Flexible Metallic Conduit.....	3.28	1.16
For Flexible Aluminum Conduit, Add	0.07	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.42	
For Installation In Metal Stud Wall, Add	0.28	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.71	
For Work In Restricted Working Space, Add	0.85	
26 05 33 13-1813 LF 1/2" Flexible Metallic Conduit.....	3.39	1.16
For Flexible Aluminum Conduit, Add	0.08	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.44	
For Installation In Metal Stud Wall, Add	0.29	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.73	
For Work In Restricted Working Space, Add	0.87	
26 05 33 13-1814 LF 3/4" Flexible Metallic Conduit.....	3.81	1.54
For Flexible Aluminum Conduit, Add	0.11	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.47	
For Installation In Metal Stud Wall, Add	0.31	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.79	
For Work In Restricted Working Space, Add	0.94	
26 05 33 13-1815 LF 1" Flexible Metallic Conduit.....	4.64	1.54
For Flexible Aluminum Conduit, Add	0.21	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.51	
For Installation In Metal Stud Wall, Add	0.34	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.85	
For Work In Restricted Working Space, Add	1.01	
26 05 33 13-1816 LF 1-1/4" Flexible Metallic Conduit.....	5.21	1.93
For Flexible Aluminum Conduit, Add	0.27	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.54	
For Installation In Metal Stud Wall, Add	0.36	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.89	
For Work In Restricted Working Space, Add	1.07	
26 05 33 13-1817 LF 1-1/2" Flexible Metallic Conduit.....	6.60	2.31
For Flexible Aluminum Conduit, Add	0.48	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.56	
For Installation In Metal Stud Wall, Add	0.37	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.93	
For Work In Restricted Working Space, Add	1.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1818 LF 2" Flexible Metallic Conduit.....	7.39	3.09
For Flexible Aluminum Conduit, Add	0.58	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.58	
For Installation In Metal Stud Wall, Add	0.39	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.97	
For Work In Restricted Working Space, Add	1.16	
26 05 33 13-1819 LF 2-1/2" Flexible Steel Conduit.....	9.10	3.48
For Flexible Aluminum Conduit, Add	0.70	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.72	
For Installation In Metal Stud Wall, Add	0.48	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.21	
For Work In Restricted Working Space, Add	1.45	
26 05 33 13-1820 LF 3" Flexible Metallic Conduit.....	13.21	4.25
For Flexible Aluminum Conduit, Add	1.22	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.87	
For Installation In Metal Stud Wall, Add	0.58	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.45	
For Work In Restricted Working Space, Add	1.74	
26 05 33 13-1821 LF 3-1/2" Flexible Metallic Conduit.....	16.10	4.63
For Flexible Aluminum Conduit, Add	1.54	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.01	
For Installation In Metal Stud Wall, Add	0.68	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.69	
For Work In Restricted Working Space, Add	2.03	
26 05 33 13-1822 LF 4" Flexible Metallic Conduit.....	18.51	5.40
For Flexible Aluminum Conduit, Add	1.78	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.16	
For Installation In Metal Stud Wall, Add	0.77	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.93	
For Work In Restricted Working Space, Add	2.32	
26 05 33 13-1823 Plain Squeeze Type Straight Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1824 EA 3/8" Flexible Straight Connectors, Plain.....	5.48	3.09
For Work In Restricted Working Space, Add	1.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.30	
26 05 33 13-1825 EA 1/2" Flexible Straight Connectors, Plain.....	6.64	3.48
For Work In Restricted Working Space, Add	1.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.45	
26 05 33 13-1826 EA 3/4" Flexible Straight Connectors, Plain.....	7.69	4.25
For Work In Restricted Working Space, Add	1.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.74	
26 05 33 13-1827 EA 1" Flexible Straight Connectors, Plain.....	11.90	4.63
For Work In Restricted Working Space, Add	2.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.32	
26 05 33 13-1828 EA 1-1/4" Flexible Straight Connectors, Plain.....	16.49	5.40
For Work In Restricted Working Space, Add	2.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.90	
26 05 33 13-1829 EA 1-1/2" Flexible Straight Connectors, Plain.....	21.56	6.56
For Work In Restricted Working Space, Add	3.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.62	
26 05 33 13-1830 EA 2" Flexible Straight Connectors, Plain.....	27.99	6.56
For Work In Restricted Working Space, Add	4.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.34	
26 05 33 13-1831 EA 2-1/2" Flexible Straight Connectors, Plain.....	43.43	8.11
For Work In Restricted Working Space, Add	5.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.07	
26 05 33 13-1832 EA 3" Flexible Straight Connectors, Plain.....	56.09	8.88
For Work In Restricted Working Space, Add	5.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.79	
26 05 33 13-1833 EA 3-1/2" Flexible Straight Connectors, Plain.....	164.00	10.42
For Work In Restricted Working Space, Add	6.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.51	
26 05 33 13-1834 EA 4" Flexible Straight Connectors, Plain.....	204.14	12.73
For Work In Restricted Working Space, Add	7.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	
26 05 33 13-1835 Insulated Throat Squeeze Type Straight Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1836 EA 1/2" Flexible Straight Connectors, Insulated.....	7.26	3.48
For Work In Restricted Working Space, Add	1.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.45	
26 05 33 13-1837 EA 3/4" Flexible Straight Connectors, Insulated.....	8.51	4.25
For Work In Restricted Working Space, Add	1.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.74	
26 05 33 13-1838 EA 1" Flexible Straight Connectors, Insulated.....	13.01	4.63
For Work In Restricted Working Space, Add	2.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.32	
26 05 33 13-1839 EA 1-1/4" Flexible Straight Connectors, Insulated.....	18.53	5.40
For Work In Restricted Working Space, Add	2.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.90	
26 05 33 13-1840 EA 1-1/2" Flexible Straight Connectors, Insulated.....	25.19	5.79
For Work In Restricted Working Space, Add	3.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.62	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1841	EA		2" Flexible Straight Connectors, Insulated	34.40	6.56
			<i>For Work In Restricted Working Space, Add</i>	4.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.34	
26 05 33 13-1842	EA		2-1/2" Flexible Straight Connectors, Insulated	57.15	8.11
			<i>For Work In Restricted Working Space, Add</i>	5.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.07	
26 05 33 13-1843	EA		3" Flexible Straight Connectors, Insulated	72.27	8.88
			<i>For Work In Restricted Working Space, Add</i>	5.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	
26 05 33 13-1844	EA		3-1/2" Flexible Straight Connectors, Insulated	188.93	10.42
			<i>For Work In Restricted Working Space, Add</i>	6.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.51	
26 05 33 13-1845	EA		4" Flexible Straight Connectors, Insulated	241.63	12.73
			<i>For Work In Restricted Working Space, Add</i>	7.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.24	
26 05 33 13-1846			Plain Squeeze Type 90 Degree Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1847	EA		3/8" Flexible 90 Degree Connector, Plain	7.61	3.86
			<i>For Work In Restricted Working Space, Add</i>	1.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.74	
26 05 33 13-1848	EA		1/2" Flexible 90 Degree Connector, Plain	9.80	4.25
			<i>For Work In Restricted Working Space, Add</i>	2.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.03	
26 05 33 13-1849	EA		3/4" Flexible 90 Degree Connector, Plain	12.50	4.63
			<i>For Work In Restricted Working Space, Add</i>	2.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.32	
26 05 33 13-1850	EA		1" Flexible 90 Degree Connector, Plain	17.19	5.40
			<i>For Work In Restricted Working Space, Add</i>	2.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.90	
26 05 33 13-1851	EA		1-1/4" Flexible 90 Degree Connector, Plain	25.90	5.79
			<i>For Work In Restricted Working Space, Add</i>	3.47	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.47	
26 05 33 13-1852	EA		1-1/2" Flexible 90 Degree Connector, Plain	39.50	6.75
			<i>For Work In Restricted Working Space, Add</i>	4.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.34	
26 05 33 13-1853	EA		2" Flexible 90 Degree Connector, Plain	47.35	8.30
			<i>For Work In Restricted Working Space, Add</i>	4.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.92	
26 05 33 13-1854	EA		2-1/2" Flexible 90 Degree Connector, Plain	99.96	8.88
			<i>For Work In Restricted Working Space, Add</i>	5.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	
26 05 33 13-1855	EA		3" Flexible 90 Degree Connector, Plain	127.60	10.42
			<i>For Work In Restricted Working Space, Add</i>	6.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.51	
26 05 33 13-1856	EA		3-1/2" Flexible 90 Degree Connector, Plain	264.94	12.73
			<i>For Work In Restricted Working Space, Add</i>	7.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.24	
26 05 33 13-1857	EA		4" Flexible 90 Degree Connector, Plain	469.61	14.48
			<i>For Work In Restricted Working Space, Add</i>	8.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.69	
26 05 33 13-1858			Insulated Throat Squeeze Type 90 Degree Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1859	EA		1/2" Flexible 90 Degree Connector, Insulated	10.67	4.25
			<i>For Work In Restricted Working Space, Add</i>	2.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.03	
26 05 33 13-1860	EA		3/4" Flexible 90 Degree Connector, Insulated	13.56	4.63
			<i>For Work In Restricted Working Space, Add</i>	2.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.32	
26 05 33 13-1861	EA		1" Flexible 90 Degree Connector, Insulated	17.19	5.40
			<i>For Work In Restricted Working Space, Add</i>	2.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.90	
26 05 33 13-1862	EA		1-1/4" Flexible 90 Degree Connector, Insulated	29.68	5.79
			<i>For Work In Restricted Working Space, Add</i>	3.47	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.47	
26 05 33 13-1863	EA		1-1/2" Flexible 90 Degree Connector, Insulated	46.38	6.75
			<i>For Work In Restricted Working Space, Add</i>	4.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.34	
26 05 33 13-1864	EA		2" Flexible 90 Degree Connector, Insulated	58.52	8.30
			<i>For Work In Restricted Working Space, Add</i>	4.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.92	
26 05 33 13-1865	EA		2-1/2" Flexible 90 Degree Connector, Insulated	134.89	8.88
			<i>For Work In Restricted Working Space, Add</i>	5.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	
26 05 33 13-1866	EA		3" Flexible 90 Degree Connector, Insulated	165.45	10.42
			<i>For Work In Restricted Working Space, Add</i>	6.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.51	
26 05 33 13-1867	EA		3-1/2" Flexible 90 Degree Connector, Insulated	436.48	12.73
			<i>For Work In Restricted Working Space, Add</i>	7.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.24	
26 05 33 13-1868	EA		4" Flexible 90 Degree Connector, Insulated	649.27	14.48
			<i>For Work In Restricted Working Space, Add</i>	8.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1869 Plain Squeeze Type 45 Degree Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1870 EA 3/8" Flexible 45 Degree Connector, Plain.....	8.31	3.86
For Work In Restricted Working Space, Add	1.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.74	
26 05 33 13-1871 EA 1/2" Flexible 45 Degree Connector, Plain.....	10.92	4.25
For Work In Restricted Working Space, Add	2.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.03	
26 05 33 13-1872 EA 3/4" Flexible 45 Degree Connector, Plain.....	13.74	4.63
For Work In Restricted Working Space, Add	2.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.32	
26 05 33 13-1873 Insulated Squeeze Type 45 Degree Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1874 EA 3/8" Flexible 45 Degree Connector, Insulated.....	8.79	4.63
For Work In Restricted Working Space, Add	1.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.74	
26 05 33 13-1875 EA 1/2" Flexible 45 Degree Connector, Insulated.....	11.71	4.25
For Work In Restricted Working Space, Add	2.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.03	
26 05 33 13-1876 EA 3/4" Flexible 45 Degree Connector, Insulated.....	14.86	4.63
For Work In Restricted Working Space, Add	2.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.32	
26 05 33 13-1877 Plain Screw-In Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1878 EA 3/8" Flexible Steel Screw-in Connector, Plain.....	4.76	3.09
For Work In Restricted Working Space, Add	1.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.30	
26 05 33 13-1879 EA 1/2" Flexible Steel Screw-in Connector, Plain.....	5.18	3.48
For Work In Restricted Working Space, Add	1.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.45	
26 05 33 13-1880 EA 3/4" Flexible Steel Screw-in Connector, Plain.....	6.50	4.25
For Work In Restricted Working Space, Add	1.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.74	
26 05 33 13-1881 EA 1" Flexible Steel Screw-in Connector, Plain.....	9.15	4.63
For Work In Restricted Working Space, Add	2.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.32	
26 05 33 13-1882 EA 1-1/4" Flexible Steel Screw-in Connector, Plain.....	12.99	5.40
For Work In Restricted Working Space, Add	2.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.90	
26 05 33 13-1883 EA 1-1/2" Flexible Steel Screw-in Connector, Plain.....	15.95	5.79
For Work In Restricted Working Space, Add	3.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.62	
26 05 33 13-1884 EA 2" Flexible Steel Screw-in Connector, Plain.....	22.55	6.56
For Work In Restricted Working Space, Add	4.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.34	
26 05 33 13-1885 Insulated Screw-In Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1886 EA 3/8" Flexible Steel Screw-in Connector, Insulated.....	4.97	3.09
For Work In Restricted Working Space, Add	1.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.30	
26 05 33 13-1887 EA 1/2" Flexible Steel Screw-in Connector, Insulated.....	5.34	3.48
For Work In Restricted Working Space, Add	1.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.45	
26 05 33 13-1888 EA 3/4" Flexible Steel Screw-in Connector, Insulated.....	6.92	4.25
For Work In Restricted Working Space, Add	1.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.74	
26 05 33 13-1889 EA 1" Flexible Steel Screw-in Connector, Insulated.....	9.79	4.63
For Work In Restricted Working Space, Add	2.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.32	
26 05 33 13-1890 EA 1-1/4" Flexible Steel Screw-in Connector, Insulated.....	13.91	5.40
For Work In Restricted Working Space, Add	2.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.90	
26 05 33 13-1891 EA 1-1/2" Flexible Steel Screw-in Connector, Insulated.....	17.05	5.79
For Work In Restricted Working Space, Add	3.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.62	
26 05 33 13-1892 EA 2" Flexible Steel Screw-in Connector, Insulated.....	23.52	6.56
For Work In Restricted Working Space, Add	4.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.34	
26 05 33 13-1893 Screw-In Coupling <small>(26 05 33 13-1810)</small>		
26 05 33 13-1894 EA 1/2" Flexible Steel Screw-in Coupling.....	5.58	3.48
For Work In Restricted Working Space, Add	1.45	
26 05 33 13-1895 EA 3/4" Flexible Steel Screw-in Coupling.....	7.17	4.25
For Work In Restricted Working Space, Add	1.74	
26 05 33 13-1896 Flexible To Electrical Metallic Tubing (EMT) Coupling <small>(26 05 33 13-1810)</small>		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1897	EA		3/8" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	6.91	3.09
			<i>For Work In Restricted Working Space, Add</i>	1.30	
26 05 33 13-1898	EA		1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	9.11	3.48
			<i>For Work In Restricted Working Space, Add</i>	1.45	
26 05 33 13-1899	EA		3/4" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	11.87	4.25
			<i>For Work In Restricted Working Space, Add</i>	1.74	
26 05 33 13-1900			Die Cast Squeeze Type Straight Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1901	EA		3/8" Flexible Straight Connector, Die Cast.....	4.89	3.09
			<i>For Work In Restricted Working Space, Add</i>	1.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.30	
26 05 33 13-1902	EA		1/2" Flexible Straight Connector, Die Cast.....	5.51	3.48
			<i>For Work In Restricted Working Space, Add</i>	1.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.45	
26 05 33 13-1903	EA		3/4" Flexible Straight Connector, Die Cast.....	6.78	4.25
			<i>For Work In Restricted Working Space, Add</i>	1.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.74	
26 05 33 13-1904	EA		1" Flexible Straight Connector, Die Cast.....	9.94	4.63
			<i>For Work In Restricted Working Space, Add</i>	2.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.32	
26 05 33 13-1905	EA		1-1/4" Flexible Straight Connector, Die Cast.....	13.18	5.40
			<i>For Work In Restricted Working Space, Add</i>	2.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.90	
26 05 33 13-1906	EA		1-1/2" Flexible Straight Connector, Die Cast.....	17.60	5.79
			<i>For Work In Restricted Working Space, Add</i>	3.62	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.62	
26 05 33 13-1907	EA		2" Flexible Straight Connector, Die Cast.....	22.46	6.56
			<i>For Work In Restricted Working Space, Add</i>	4.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.34	
26 05 33 13-1908			Die Cast Squeeze Type 90 Degree Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1909	EA		3/8" Flexible 90 Degree Connector, Die Cast	6.49	3.86
			<i>For Work In Restricted Working Space, Add</i>	1.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.74	
26 05 33 13-1910	EA		1/2" Flexible 90 Degree Connector, Die Cast	7.93	4.25
			<i>For Work In Restricted Working Space, Add</i>	2.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.03	
26 05 33 13-1911	EA		3/4" Flexible 90 Degree Connector, Die Cast	9.49	4.63
			<i>For Work In Restricted Working Space, Add</i>	2.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.32	
26 05 33 13-1912	EA		1" Flexible 90 Degree Connector, Die Cast	14.33	5.40
			<i>For Work In Restricted Working Space, Add</i>	2.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.90	
26 05 33 13-1913	EA		1-1/4" Flexible 90 Degree Connector, Die Cast	19.75	5.79
			<i>For Work In Restricted Working Space, Add</i>	3.47	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.47	
26 05 33 13-1914	EA		1-1/2" Flexible 90 Degree Connector, Die Cast	29.73	6.75
			<i>For Work In Restricted Working Space, Add</i>	4.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.34	
26 05 33 13-1915	EA		2" Flexible 90 Degree Connector, Die Cast	35.29	8.30
			<i>For Work In Restricted Working Space, Add</i>	4.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.92	
26 05 33 13-1916			Flexible Liquid Tight Non-Metallic Conduit And Connectors <small>(26 05 33 13-1768)</small>		
26 05 33 13-1917			Flexible Liquid Tight Non-Metallic Conduit <small>(26 05 33 13-1916)</small>		
26 05 33 13-1918	LF		3/8" Flexible Liquid Tight Non-Metallic Conduit.....	3.24	1.06
			<i>For Work In Restricted Working Space, Add</i>	0.80	
26 05 33 13-1919	LF		1/2" Flexible Liquid Tight Non-Metallic Conduit.....	3.29	1.06
			<i>For Work In Restricted Working Space, Add</i>	0.80	
26 05 33 13-1920	LF		3/4" Flexible Liquid Tight Non-Metallic Conduit.....	4.41	1.41
			<i>For Work In Restricted Working Space, Add</i>	1.06	
26 05 33 13-1921	LF		1" Flexible Liquid Tight Non-Metallic Conduit.....	5.31	1.41
			<i>For Work In Restricted Working Space, Add</i>	1.06	
26 05 33 13-1922	LF		1-1/4" Flexible Liquid Tight Non-Metallic Conduit	6.73	1.76
			<i>For Work In Restricted Working Space, Add</i>	1.32	
26 05 33 13-1923	LF		1-1/2" Flexible Liquid Tight Non-Metallic Conduit	8.52	2.11
			<i>For Work In Restricted Working Space, Add</i>	1.59	
26 05 33 13-1924	LF		2" Flexible Liquid Tight Non-Metallic Conduit.....	10.99	2.83
			<i>For Work In Restricted Working Space, Add</i>	2.12	
26 05 33 13-1925			Liquid Tight Non-Metallic Straight Connector <small>(26 05 33 13-1916)</small>		
26 05 33 13-1926	EA		3/8" Liquid Tight Non-Metallic Straight Connector	9.23	2.83
			<i>For Work In Restricted Working Space, Add</i>	2.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.12	
26 05 33 13-1927	EA		1/2" Liquid Tight Non-Metallic Straight Connector	9.23	2.83
			<i>For Work In Restricted Working Space, Add</i>	2.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1928 EA 3/4" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.15 2.38 2.38	3.18
26 05 33 13-1929 EA 1" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.64 2.65 2.65	3.53
26 05 33 13-1930 EA 1-1/4" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.35 2.91 2.91	3.88
26 05 33 13-1931 EA 1-1/2" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.63 3.17 3.17	4.24
26 05 33 13-1932 EA 2" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.45 3.71 3.71	4.94
26 05 33 13-1933 Liquid Tight Non-Metallic 90 Degree Angle Connector <small>(26 05 33 13-1916)</small>		
26 05 33 13-1934 EA 3/8" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.23 2.91 2.91	3.88
26 05 33 13-1935 EA 1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.23 2.91 2.91	3.88
26 05 33 13-1936 EA 3/4" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.01 3.17 3.17	4.24
26 05 33 13-1937 EA 1" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.15 3.71 3.71	4.94
26 05 33 13-1938 EA 1-1/4" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.98 3.97 3.97	5.29
26 05 33 13-1939 EA 1-1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.01 4.23 4.23	5.64
26 05 33 13-1940 EA 2" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.47 4.77 4.77	6.35
26 05 33 13-1941 Liquid Tight Non-Metallic 45 Degree Angle Connector <small>(26 05 33 13-1916)</small>		
26 05 33 13-1942 EA 3/8" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.23 2.91 2.91	3.88
26 05 33 13-1943 EA 1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.23 2.91 2.91	3.88
26 05 33 13-1944 EA 3/4" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.01 3.17 3.17	4.24
26 05 33 13-1945 EA 1" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.15 3.71 3.71	4.94
26 05 33 13-1946 EA 1-1/4" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.98 3.97 3.97	5.29
26 05 33 13-1947 EA 1-1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.01 4.23 4.23	5.64
26 05 33 13-1948 EA 2" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.47 4.77 4.77	6.35
26 05 33 13-1949 Blue ENT Electrical Non-Metallic Tubing <small>(26 05 33 13-1768)</small> Note: Carlon - FLEX-PLUS.		
26 05 33 13-1950 Blue ENT Electrical Non-Metallic Tubing <small>(26 05 33 13-1949)</small>		
26 05 33 13-1951 LF 1/2" Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	3.17 0.87	1.16
26 05 33 13-1952 LF 3/4" Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	4.24 1.16	1.54
26 05 33 13-1953 LF 1" Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	4.47 1.16	1.54
26 05 33 13-1954 Terminal Adapter <small>(26 05 33 13-1949)</small>		
26 05 33 13-1955 EA 1/2" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.17 2.32 2.32	3.09
26 05 33 13-1956 EA 3/4" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.50 2.61 2.61	3.48

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1957 EA 1" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	10.70	3.86
For Work In Restricted Working Space, Add	2.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.90	
26 05 33 13-1958 Coupling (26 05 33 13-1949)		
26 05 33 13-1959 EA 1/2" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	8.11	3.09
For Work In Restricted Working Space, Add	2.32	
26 05 33 13-1960 EA 3/4" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	9.19	3.48
For Work In Restricted Working Space, Add	2.61	
26 05 33 13-1961 EA 1" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	10.41	3.86
For Work In Restricted Working Space, Add	2.90	
26 05 33 13-1962 Conduit Installed Below Grade (26 05 33 13-0057)		
Note: By direct burial in trench or in concrete slabs or duct banks. Excludes trenching, backfilling and concrete.		
26 05 33 13-1963 Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial (26 05 33 13-1962)		
26 05 33 13-1964 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial (26 05 33 13-1963)		
Note: Includes field bend conduit up to 1".		
26 05 33 13-1965 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	2.84	
For Schedule 60, Add	0.18	
For Schedule 80, Add	0.33	
26 05 33 13-1966 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	3.11	
For Schedule 60, Add	0.20	
For Schedule 80, Add	0.37	
26 05 33 13-1967 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	3.43	
For Schedule 60, Add	0.24	
For Schedule 80, Add	0.43	
26 05 33 13-1968 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	3.75	
For Schedule 60, Add	0.28	
For Schedule 80, Add	0.49	
26 05 33 13-1969 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	4.06	
For Schedule 60, Add	0.32	
For Schedule 80, Add	0.55	
26 05 33 13-1970 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	4.45	
For Schedule 60, Add	0.37	
For Schedule 80, Add	0.63	
26 05 33 13-1971 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	5.08	
For Schedule 60, Add	0.49	
For Schedule 80, Add	0.80	
26 05 33 13-1972 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	5.51	
For Schedule 60, Add	0.55	
For Schedule 80, Add	0.90	
26 05 33 13-1973 LF 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	6.11	
For Schedule 60, Add	0.66	
For Schedule 80, Add	1.06	
26 05 33 13-1974 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	6.49	
For Schedule 60, Add	0.72	
For Schedule 80, Add	1.14	
26 05 33 13-1975 LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	7.63	
For Schedule 60, Add	0.96	
For Schedule 80, Add	1.49	
26 05 33 13-1976 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	8.75	
For Schedule 60, Add	1.20	
For Schedule 80, Add	1.83	
26 05 33 13-1977 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial (26 05 33 13-1963)		
See CSI section 26 05 33 13-2423 for conduit field bending.		
26 05 33 13-1978 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	21.41	
For Schedule 60, Add	1.24	
For Schedule 80, Add	2.35	
26 05 33 13-1979 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	25.69	
For Schedule 60, Add	1.48	
For Schedule 80, Add	2.82	
26 05 33 13-1980 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	30.36	
For Schedule 60, Add	1.83	
For Schedule 80, Add	3.42	
26 05 33 13-1981 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	35.16	
For Schedule 60, Add	2.20	
For Schedule 80, Add	4.07	
26 05 33 13-1982 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	40.08	
For Schedule 60, Add	2.61	
For Schedule 80, Add	4.77	
26 05 33 13-1983 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	45.34	
For Schedule 60, Add	3.10	
For Schedule 80, Add	5.58	
26 05 33 13-1984 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	52.70	
For Schedule 60, Add	4.12	
For Schedule 80, Add	7.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1985 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	61.51	
<i>For Schedule 60, Add</i>	5.50	
<i>For Schedule 80, Add</i>	9.18	
26 05 33 13-1986 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	74.49	
<i>For Schedule 60, Add</i>	7.09	
<i>For Schedule 80, Add</i>	11.66	
26 05 33 13-1987 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	87.55	
<i>For Schedule 60, Add</i>	8.71	
<i>For Schedule 80, Add</i>	14.18	
26 05 33 13-1988 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	112.29	
<i>For Schedule 60, Add</i>	13.25	
<i>For Schedule 80, Add</i>	20.78	
26 05 33 13-1989 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	131.02	
<i>For Schedule 60, Add</i>	16.29	
<i>For Schedule 80, Add</i>	25.27	
26 05 33 13-1990 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct Burial <small>(26 05 33 13-1963)</small>		
See CSI section 26 05 33 13-2423 for conduit field bending.		
26 05 33 13-1991 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	21.41	
<i>For Schedule 60, Add</i>	1.24	
<i>For Schedule 80, Add</i>	2.35	
26 05 33 13-1992 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	25.63	
<i>For Schedule 60, Add</i>	1.47	
<i>For Schedule 80, Add</i>	2.80	
26 05 33 13-1993 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	30.27	
<i>For Schedule 60, Add</i>	1.81	
<i>For Schedule 80, Add</i>	3.39	
26 05 33 13-1994 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	34.92	
<i>For Schedule 60, Add</i>	2.14	
<i>For Schedule 80, Add</i>	3.99	
26 05 33 13-1995 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	39.54	
<i>For Schedule 60, Add</i>	2.48	
<i>For Schedule 80, Add</i>	4.58	
26 05 33 13-1996 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	45.06	
<i>For Schedule 60, Add</i>	3.03	
<i>For Schedule 80, Add</i>	5.48	
26 05 33 13-1997 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	52.16	
<i>For Schedule 60, Add</i>	3.98	
<i>For Schedule 80, Add</i>	6.93	
26 05 33 13-1998 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	60.83	
<i>For Schedule 60, Add</i>	5.33	
<i>For Schedule 80, Add</i>	8.94	
26 05 33 13-1999 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	72.57	
<i>For Schedule 60, Add</i>	6.61	
<i>For Schedule 80, Add</i>	10.99	
26 05 33 13-2000 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	85.90	
<i>For Schedule 60, Add</i>	8.30	
<i>For Schedule 80, Add</i>	13.60	
26 05 33 13-2001 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	110.16	
<i>For Schedule 60, Add</i>	12.72	
<i>For Schedule 80, Add</i>	20.03	
26 05 33 13-2002 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	124.66	
<i>For Schedule 60, Add</i>	14.70	
<i>For Schedule 80, Add</i>	23.05	
26 05 33 13-2003 Polyvinyl Chloride (PVC) Conduit Female Adapters, Direct Burial <small>(26 05 33 13-1963)</small>		
26 05 33 13-2004 EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	11.91	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.46	
26 05 33 13-2005 EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	13.69	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.95	
26 05 33 13-2006 EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	15.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.45	
26 05 33 13-2007 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	17.44	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.94	
26 05 33 13-2008 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	19.18	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.44	
26 05 33 13-2009 EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	21.27	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.93	
26 05 33 13-2010 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	25.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.67	
26 05 33 13-2011 EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	28.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.41	
26 05 33 13-2012 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	33.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.64	
26 05 33 13-2013 EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	37.98	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.88	
26 05 33 13-2014 EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	47.24	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.12	
26 05 33 13-2015 EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	53.45	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.35	

26 Electrical
26 05 Common Work Results For Electrical
26 05 33 Raceway And Boxes For Electrical Systems



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 05 33 13-2016		Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial <small>(26 05 33 13-1963)</small>		
26 05 33 13-2017	EA	1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	12.98	
26 05 33 13-2018	EA	3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	14.85	
26 05 33 13-2019	EA	1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	16.73	
26 05 33 13-2020	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	21.35	
26 05 33 13-2021	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	23.61	
26 05 33 13-2022	EA	2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	26.16	
26 05 33 13-2023	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	29.31	
26 05 33 13-2024	EA	3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	33.31	
26 05 33 13-2025	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	39.34	
26 05 33 13-2026	EA	4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	43.68	
26 05 33 13-2027	EA	5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	54.07	
26 05 33 13-2028	EA	6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	60.68	
26 05 33 13-2029		Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial <small>(26 05 33 13-1963)</small>		
26 05 33 13-2030	EA	1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	11.85	
26 05 33 13-2031	EA	3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	13.69	
26 05 33 13-2032	EA	1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	15.44	
26 05 33 13-2033	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	17.29	
26 05 33 13-2034	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	19.05	
26 05 33 13-2035	EA	2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	21.09	
26 05 33 13-2036	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	24.66	
26 05 33 13-2037	EA	3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	28.00	
26 05 33 13-2038	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	32.99	
26 05 33 13-2039	EA	4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	37.31	
26 05 33 13-2040	EA	5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	45.92	
26 05 33 13-2041	EA	6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	51.88	
26 05 33 13-2042		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <small>(26 05 33 13-1962)</small>		
Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).				
26 05 33 13-2043		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <small>(26 05 33 13-2042)</small>		
Note: Includes field bending for conduit up to 1".				
26 05 33 13-2044	LF	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	10.46	1.85
		For >250 To 500, Deduct	-0.40	
		For >500 To 1,000, Deduct	-0.66	
		For >1,000, Deduct	-0.92	
26 05 33 13-2045	LF	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	11.78	2.30
		For >250 To 500, Deduct	-0.46	
		For >500 To 1,000, Deduct	-0.75	
		For >1,000, Deduct	-1.05	
26 05 33 13-2046	LF	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	14.58	2.56
		For >250 To 500, Deduct	-0.57	
		For >500 To 1,000, Deduct	-0.94	
		For >1,000, Deduct	-1.30	
26 05 33 13-2047	LF	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	17.72	3.44
		For >250 To 500, Deduct	-0.71	
		For >500 To 1,000, Deduct	-1.15	
		For >1,000, Deduct	-1.60	
26 05 33 13-2048	LF	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	20.90	3.88
		For >250 To 500, Deduct	-0.85	
		For >500 To 1,000, Deduct	-1.37	
		For >1,000, Deduct	-1.89	
26 05 33 13-2049	LF	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	26.59	4.24
		For >250 To 500, Deduct	-1.09	
		For >500 To 1,000, Deduct	-1.75	
		For >1,000, Deduct	-2.42	
26 05 33 13-2050	LF	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	38.84	6.35
		For >250 To 500, Deduct	-1.61	
		For >500 To 1,000, Deduct	-2.58	
		For >1,000, Deduct	-3.55	
26 05 33 13-2051	LF	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	49.95	7.94
		For >250 To 500, Deduct	-2.06	
		For >500 To 1,000, Deduct	-3.31	
		For >1,000, Deduct	-4.55	
26 05 33 13-2052	LF	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	61.57	8.38
		For >250 To 500, Deduct	-2.53	
		For >500 To 1,000, Deduct	-4.07	
		For >1,000, Deduct	-5.61	
26 05 33 13-2053	LF	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	73.04	9.26
		For >250 To 500, Deduct	-2.99	
		For >500 To 1,000, Deduct	-4.82	
		For >1,000, Deduct	-6.64	
26 05 33 13-2054	LF	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	116.05	12.79
		For >250 To 500, Deduct	-4.96	
		For >500 To 1,000, Deduct	-7.87	
		For >1,000, Deduct	-10.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2055 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	155.44 -6.71 -10.60 -14.49	16.77
26 05 33 13-2056 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2057 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	11.21	2.65
26 05 33 13-2058 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	13.26	3.53
26 05 33 13-2059 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	16.87	4.41
26 05 33 13-2060 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	19.09	4.85
26 05 33 13-2061 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	22.63	5.73
26 05 33 13-2062 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	29.58	6.61
26 05 33 13-2063 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	56.32	7.94
26 05 33 13-2064 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	71.17	11.02
26 05 33 13-2065 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	88.60	12.79
26 05 33 13-2066 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	108.96	17.65
26 05 33 13-2067 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	288.59	24.26
26 05 33 13-2068 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	295.51	13.67
26 05 33 13-2069 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
Note: 90, 45, or 30 degree.		
26 05 33 13-2070 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	42.81	11.02
26 05 33 13-2071 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	48.89	13.67
26 05 33 13-2072 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	58.22	16.77
26 05 33 13-2073 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	69.17	19.41
26 05 33 13-2074 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	81.41	22.06
26 05 33 13-2075 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	100.59	24.26
26 05 33 13-2076 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	158.95	30.44
26 05 33 13-2077 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	239.66	41.46
26 05 33 13-2078 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	299.17	46.75
26 05 33 13-2079 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	339.14	60.87
26 05 33 13-2080 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	722.38	99.25
26 05 33 13-2081 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	1,140.28	149.10
26 05 33 13-2082 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2083 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	107.12	16.77
26 05 33 13-2084 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	120.23	19.41
26 05 33 13-2085 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	137.31	22.06
26 05 33 13-2086 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	165.08	24.26
26 05 33 13-2087 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	231.95	30.44
26 05 33 13-2088 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2089 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	120.34	16.77
26 05 33 13-2090 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	142.08	19.41
26 05 33 13-2091 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	152.97	22.06
26 05 33 13-2092 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	199.25	24.26
26 05 33 13-2093 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	264.89	30.44
26 05 33 13-2094 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	337.36	41.46

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2095		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2096	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	136.16	16.77
26 05 33 13-2097	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	153.46	19.41
26 05 33 13-2098	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	173.07	22.06
26 05 33 13-2099	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	210.58	24.26
26 05 33 13-2100	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	302.75	30.44
26 05 33 13-2101	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	381.80	41.46
26 05 33 13-2102	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	485.30	46.75
26 05 33 13-2103	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	541.92	60.87
26 05 33 13-2104		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2105	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	163.47	16.77
26 05 33 13-2106	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	180.17	19.41
26 05 33 13-2107	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	203.41	22.06
26 05 33 13-2108	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	254.26	24.26
26 05 33 13-2109	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	370.50	30.44
26 05 33 13-2110	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	457.10	41.46
26 05 33 13-2111	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	531.28	46.75
26 05 33 13-2112	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	626.32	60.87
26 05 33 13-2113		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2114	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	184.72	16.77
26 05 33 13-2115	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	205.04	19.41
26 05 33 13-2116	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	233.26	22.06
26 05 33 13-2117	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	292.28	24.26
26 05 33 13-2118	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	407.47	30.44
26 05 33 13-2119	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	517.33	41.46
26 05 33 13-2120	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	643.06	46.75
26 05 33 13-2121	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	703.80	60.87
26 05 33 13-2122	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	1,174.71	99.25
26 05 33 13-2123		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2124	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	212.51	16.77
26 05 33 13-2125	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	235.08	19.41
26 05 33 13-2126	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	265.98	22.06
26 05 33 13-2127	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	334.44	24.26
26 05 33 13-2128	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	469.06	30.44
26 05 33 13-2129	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	594.07	41.46
26 05 33 13-2130	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	699.08	46.75
26 05 33 13-2131	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	803.83	60.87
26 05 33 13-2132	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,244.81	99.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2133 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,694.19	149.10
26 05 33 13-2134 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2135 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	251.20	16.77
26 05 33 13-2136 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	261.87	19.41
26 05 33 13-2137 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	309.78	22.06
26 05 33 13-2138 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	393.14	24.26
26 05 33 13-2139 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	552.12	30.44
26 05 33 13-2140 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	697.52	41.46
26 05 33 13-2141 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	854.80	46.75
26 05 33 13-2142 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	998.41	60.87
26 05 33 13-2143 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,473.46	99.25
26 05 33 13-2144 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,799.14	149.10
26 05 33 13-2145 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2146 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	260.52	16.77
26 05 33 13-2147 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	307.17	19.41
26 05 33 13-2148 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	347.65	22.06
26 05 33 13-2149 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	410.80	24.26
26 05 33 13-2150 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	572.87	30.44
26 05 33 13-2151 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	729.33	41.46
26 05 33 13-2152 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	939.61	46.75
26 05 33 13-2153 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,042.54	60.87
26 05 33 13-2154 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,534.89	99.25
26 05 33 13-2155 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,852.47	149.10
26 05 33 13-2156 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2157 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	83.90	11.02
26 05 33 13-2158 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	90.31	13.67
26 05 33 13-2159 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	117.92	16.77
26 05 33 13-2160 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	174.66	19.41
26 05 33 13-2161 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	207.96	22.06
26 05 33 13-2162 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	266.88	24.26
26 05 33 13-2163 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	356.48	30.44
26 05 33 13-2164 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	468.42	30.44
26 05 33 13-2165 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	599.05	46.75
26 05 33 13-2166 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	770.86	60.87
26 05 33 13-2167 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,411.77	99.25
26 05 33 13-2168 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,743.18	149.10
26 05 33 13-2169 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial <small>(26 05 33 13-2042)</small>		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2170	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	85.98	11.02
26 05 33 13-2171	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	98.27	13.67
26 05 33 13-2172	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	122.16	16.77
26 05 33 13-2173	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	182.45	19.41
26 05 33 13-2174	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	218.76	22.06
26 05 33 13-2175	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	290.22	24.26
26 05 33 13-2176	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	406.41	30.44
26 05 33 13-2177	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	519.18	30.44
26 05 33 13-2178	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	690.84	46.75
26 05 33 13-2179	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	862.31	60.87
26 05 33 13-2180	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	1,579.40	99.25
26 05 33 13-2181	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	2,013.85	149.10
26 05 33 13-2182		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2183	EA	1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	28.12	5.29
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.17	
26 05 33 13-2184	EA	3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	31.10	6.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33 13-2185	EA	1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	35.62	8.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2186	EA	1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.60	9.70
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33 13-2187	EA	1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	46.01	11.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33 13-2188	EA	1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	31.26	5.73
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.44	
26 05 33 13-2189	EA	3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	33.50	6.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33 13-2190	EA	1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.04	8.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2191	EA	1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.16	9.70
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33 13-2192	EA	1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.77	11.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33 13-2193	EA	2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	52.61	12.35
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.41	
26 05 33 13-2194	EA	1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	31.43	5.73
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.44	
26 05 33 13-2195	EA	3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	33.67	6.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33 13-2196	EA	1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.35	8.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2197	EA	1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.49	9.70
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33 13-2198	EA	1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	49.11	11.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33 13-2199	EA	2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	53.47	12.35
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.41	
26 05 33 13-2200	EA	1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	33.70	5.73
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.44	
26 05 33 13-2201	EA	3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	35.94	6.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2202 EA 1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.79	8.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2203 EA 1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	46.88	9.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33 13-2204 EA 1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.64	11.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33 13-2205 EA 2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	56.16	12.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.41	
26 05 33 13-2206 EA 2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	79.93	14.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.00	
26 05 33 13-2207 EA 3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	102.55	20.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.44	
26 05 33 13-2208 EA 1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	33.87	5.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.44	
26 05 33 13-2209 EA 3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.25	6.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33 13-2210 EA 1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.12	8.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2211 EA 1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.27	9.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33 13-2212 EA 1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	52.17	11.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33 13-2213 EA 2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	58.84	12.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.41	
26 05 33 13-2214 EA 2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	82.30	14.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.00	
26 05 33 13-2215 EA 3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	107.66	20.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.44	
26 05 33 13-2216 EA 3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	129.31	23.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.03	
26 05 33 13-2217 EA 4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	149.20	30.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.26	
26 05 33 13-2218 EA 1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	34.18	5.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.44	
26 05 33 13-2219 EA 3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.59	6.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33 13-2220 EA 1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.48	8.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2221 EA 1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.92	9.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33 13-2222 EA 1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	52.85	11.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33 13-2223 EA 2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	60.30	12.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.41	
26 05 33 13-2224 EA 2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	91.74	14.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.00	
26 05 33 13-2225 EA 3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	115.30	20.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.44	
26 05 33 13-2226 EA 3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	130.94	23.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.03	
26 05 33 13-2227 EA 4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	153.56	30.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.26	
26 05 33 13-2228 EA 5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	227.98	41.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.14	
26 05 33 13-2229 EA 1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	34.78	5.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.44	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2230	EA	3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	37.19	6.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33 13-2231	EA	1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.13	8.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2232	EA	1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.11	9.70
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33 13-2233	EA	1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	54.28	11.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33 13-2234	EA	2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	61.76	12.35
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.41	
26 05 33 13-2235	EA	2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	101.32	14.99
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.00	
26 05 33 13-2236	EA	3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	125.46	20.74
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.44	
26 05 33 13-2237	EA	3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	140.09	23.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.03	
26 05 33 13-2238	EA	4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	168.99	30.44
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.26	
26 05 33 13-2239	EA	5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	251.05	41.90
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.14	
26 05 33 13-2240	EA	1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	35.72	5.73
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.44	
26 05 33 13-2241	EA	3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.10	6.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33 13-2242	EA	1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.57	8.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2243	EA	1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.43	9.70
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33 13-2244	EA	1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	57.21	11.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33 13-2245	EA	2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	68.90	12.35
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.41	
26 05 33 13-2246	EA	2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	113.11	14.99
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.00	
26 05 33 13-2247	EA	3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	139.35	20.74
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.44	
26 05 33 13-2248	EA	3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	162.99	23.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.03	
26 05 33 13-2249	EA	4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	192.16	30.44
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.26	
26 05 33 13-2250	EA	5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	266.86	41.90
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.14	
26 05 33 13-2251	EA	1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.70	5.73
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.44	
26 05 33 13-2252	EA	3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.06	6.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33 13-2253	EA	1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.98	8.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2254	EA	1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	54.74	9.70
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33 13-2255	EA	1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	64.15	11.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33 13-2256	EA	2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	79.40	12.35
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.41	
26 05 33 13-2257	EA	2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	125.57	14.99
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2258 EA 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	157.15	20.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.44	
26 05 33 13-2259 EA 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	187.05	23.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.03	
26 05 33 13-2260 EA 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	232.69	30.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.26	
26 05 33 13-2261 EA 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	298.41	41.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.14	
26 05 33 13-2262 EA 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	37.70	5.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.44	
26 05 33 13-2263 EA 3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.18	6.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33 13-2264 EA 1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.58	8.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2265 EA 1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	61.83	9.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.82	
26 05 33 13-2266 EA 1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	72.56	11.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33 13-2267 EA 2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	87.83	12.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.41	
26 05 33 13-2268 EA 2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	142.19	14.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.00	
26 05 33 13-2269 EA 3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	183.84	20.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.44	
26 05 33 13-2270 EA 3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	201.80	23.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.03	
26 05 33 13-2271 EA 4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	245.13	30.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.26	
26 05 33 13-2272 EA 5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	302.92	41.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.14	
26 05 33 13-2273 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-1962)</small>		
Note: Direct burial or encased application.		
26 05 33 13-2274 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-2273)</small>		
26 05 33 13-2275 LF 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	4.64	1.07
<i>For Work In Restricted Working Space, Add</i>	0.80	
26 05 33 13-2276 LF 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	5.11	1.15
<i>For Work In Restricted Working Space, Add</i>	0.86	
26 05 33 13-2277 LF 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	5.43	1.23
<i>For Work In Restricted Working Space, Add</i>	0.92	
26 05 33 13-2278 LF 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	5.77	1.32
<i>For Work In Restricted Working Space, Add</i>	0.99	
26 05 33 13-2279 LF 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	6.19	1.40
<i>For Work In Restricted Working Space, Add</i>	1.05	
26 05 33 13-2280 LF 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	6.47	1.48
<i>For Work In Restricted Working Space, Add</i>	1.11	
26 05 33 13-2281 LF 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	7.21	1.56
<i>For Work In Restricted Working Space, Add</i>	1.17	
26 05 33 13-2282 LF 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	8.08	1.64
<i>For Work In Restricted Working Space, Add</i>	1.24	
26 05 33 13-2283 LF 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	8.79	1.73
<i>For Work In Restricted Working Space, Add</i>	1.30	
26 05 33 13-2284 LF 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	9.48	1.81
<i>For Work In Restricted Working Space, Add</i>	1.36	
26 05 33 13-2285 LF 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	10.93	1.89
<i>For Work In Restricted Working Space, Add</i>	1.42	
26 05 33 13-2286 LF 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	12.68	1.97
<i>For Work In Restricted Working Space, Add</i>	1.48	
26 05 33 13-2287 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-2273)</small>		
26 05 33 13-2288 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	57.15	8.23
<i>For Work In Restricted Working Space, Add</i>	6.17	
<i>For 24" Radius, Add</i>	3.77	
<i>For 36" Radius, Add</i>	5.72	
<i>For 48" Radius, Add</i>	7.66	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2289	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	65.64	9.88
			<i>For Work In Restricted Working Space, Add</i>	7.41	
			<i>For 24" Radius, Add</i>	4.31	
			<i>For 36" Radius, Add</i>	6.56	
			<i>For 48" Radius, Add</i>	8.82	
26 05 33 13-2290	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	70.17	11.53
			<i>For Work In Restricted Working Space, Add</i>	8.64	
			<i>For 24" Radius, Add</i>	4.54	
			<i>For 36" Radius, Add</i>	7.02	
			<i>For 48" Radius, Add</i>	9.49	
26 05 33 13-2291	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	74.69	13.17
			<i>For Work In Restricted Working Space, Add</i>	9.88	
			<i>For 24" Radius, Add</i>	4.78	
			<i>For 36" Radius, Add</i>	7.47	
			<i>For 48" Radius, Add</i>	10.16	
26 05 33 13-2292	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	79.22	14.82
			<i>For Work In Restricted Working Space, Add</i>	11.12	
			<i>For 24" Radius, Add</i>	5.02	
			<i>For 36" Radius, Add</i>	7.92	
			<i>For 48" Radius, Add</i>	10.83	
26 05 33 13-2293	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	89.15	16.46
			<i>For Work In Restricted Working Space, Add</i>	12.35	
			<i>For 24" Radius, Add</i>	5.66	
			<i>For 36" Radius, Add</i>	8.92	
			<i>For 48" Radius, Add</i>	12.17	
26 05 33 13-2294	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	102.73	18.12
			<i>For Work In Restricted Working Space, Add</i>	13.59	
			<i>For 24" Radius, Add</i>	6.57	
			<i>For 36" Radius, Add</i>	10.27	
			<i>For 48" Radius, Add</i>	13.97	
26 05 33 13-2295	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	118.33	19.76
			<i>For Work In Restricted Working Space, Add</i>	14.82	
			<i>For 24" Radius, Add</i>	7.64	
			<i>For 36" Radius, Add</i>	11.83	
			<i>For 48" Radius, Add</i>	16.03	
26 05 33 13-2296	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	135.18	23.05
			<i>For Work In Restricted Working Space, Add</i>	17.29	
			<i>For 24" Radius, Add</i>	8.70	
			<i>For 36" Radius, Add</i>	13.52	
			<i>For 48" Radius, Add</i>	18.34	
26 05 33 13-2297	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	152.03	29.64
			<i>For Work In Restricted Working Space, Add</i>	19.76	
			<i>For 24" Radius, Add</i>	9.76	
			<i>For 36" Radius, Add</i>	15.20	
			<i>For 48" Radius, Add</i>	20.65	
26 05 33 13-2298	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	181.80	29.64
			<i>For Work In Restricted Working Space, Add</i>	22.23	
			<i>For 24" Radius, Add</i>	11.78	
			<i>For 36" Radius, Add</i>	18.18	
			<i>For 48" Radius, Add</i>	24.58	
26 05 33 13-2299	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	216.95	32.93
			<i>For Work In Restricted Working Space, Add</i>	24.70	
			<i>For 24" Radius, Add</i>	14.21	
			<i>For 36" Radius, Add</i>	21.70	
			<i>For 48" Radius, Add</i>	29.18	

26 05 33 13-2300 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-2273)

26 05 33 13-2301	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	26.67	4.61
			<i>For Work In Restricted Working Space, Add</i>	3.46	
26 05 33 13-2302	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	30.04	5.27
			<i>For Work In Restricted Working Space, Add</i>	3.95	
26 05 33 13-2303	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	31.86	5.93
			<i>For Work In Restricted Working Space, Add</i>	4.45	
26 05 33 13-2304	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	33.65	6.59
			<i>For Work In Restricted Working Space, Add</i>	4.94	
26 05 33 13-2305	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	35.65	7.24
			<i>For Work In Restricted Working Space, Add</i>	5.44	
26 05 33 13-2306	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	40.64	7.90
			<i>For Work In Restricted Working Space, Add</i>	5.93	
26 05 33 13-2307	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	47.36	8.89
			<i>For Work In Restricted Working Space, Add</i>	6.67	
26 05 33 13-2308	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	54.85	9.88
			<i>For Work In Restricted Working Space, Add</i>	7.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2309 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	62.73 8.64	11.53
26 05 33 13-2310 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	70.62 9.88	13.17
26 05 33 13-2311 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	84.16 11.12	14.82
26 05 33 13-2312 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	100.03 12.35	16.46
26 05 33 13-2313 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings <small>(26 05 33 13-2273)</small>		
26 05 33 13-2314 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	20.07 3.46	4.61
26 05 33 13-2315 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	22.66 3.95	5.27
26 05 33 13-2316 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	24.41 4.45	5.93
26 05 33 13-2317 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	26.15 4.94	6.59
26 05 33 13-2318 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	27.91 5.44	7.24
26 05 33 13-2319 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	29.61 5.93	7.90
26 05 33 13-2320 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	34.05 6.67	8.89
26 05 33 13-2321 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	38.89 7.41	9.88
26 05 33 13-2322 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	44.77 8.64	11.53
26 05 33 13-2323 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	50.66 9.88	13.17
26 05 33 13-2324 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	59.24 11.12	14.82
26 05 33 13-2325 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial <i>For Work In Restricted Working Space, Add</i>	68.87 12.35	16.46
26 05 33 13-2326 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings <small>(26 05 33 13-2273)</small>		
26 05 33 13-2327 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	17.21 1.98	2.63
26 05 33 13-2328 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	19.21 2.22	2.96
26 05 33 13-2329 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	20.16 2.47	3.29
26 05 33 13-2330 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	21.05 2.72	3.63
26 05 33 13-2331 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	22.16 2.96	3.96
26 05 33 13-2332 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	26.15 3.46	4.61
26 05 33 13-2333 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	31.53 4.20	5.60
26 05 33 13-2334 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	37.50 4.94	6.59
26 05 33 13-2335 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	44.24 6.17	8.23
26 05 33 13-2336 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	50.99 7.41	9.88
26 05 33 13-2337 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	61.66 8.64	11.53
26 05 33 13-2338 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	74.01 9.88	13.17
26 05 33 13-2339 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints <small>(26 05 33 13-2273)</small>		
26 05 33 13-2340 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	52.86 12.35	16.46
26 05 33 13-2341 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	62.38 14.82	19.76
26 05 33 13-2342 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	70.76 17.29	23.05
26 05 33 13-2343 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	79.08 19.76	26.35
26 05 33 13-2344 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	83.50 21.00	27.99

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2345	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	90.18 22.23	29.64
26 05 33	13-2346	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	97.52 23.47	31.29
26 05 33	13-2347	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	105.49 24.70	32.93
26 05 33	13-2348	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	112.51 25.94	34.58
26 05 33	13-2349	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	119.52 27.17	36.22
26 05 33	13-2350	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	130.87 28.40	37.88
26 05 33	13-2351	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	144.03 29.64	39.52
26 05 33 13-2352 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints <small>(26 05 33 13-2273)</small>					
26 05 33	13-2353	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	57.62 12.35	16.46
26 05 33	13-2354	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	67.71 14.82	19.76
26 05 33	13-2355	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	76.12 17.29	23.05
26 05 33	13-2356	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	84.49 19.76	26.35
26 05 33	13-2357	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	88.96 21.00	27.99
26 05 33	13-2358	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	96.41 22.23	29.64
26 05 33	13-2359	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	105.00 23.47	31.29
26 05 33	13-2360	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	114.47 24.70	32.93
26 05 33	13-2361	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	122.61 25.94	34.58
26 05 33	13-2362	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	130.75 27.17	36.22
26 05 33	13-2363	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	144.94 28.40	37.88
26 05 33	13-2364	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	161.62 29.64	39.52
26 05 33 13-2365 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters <small>(26 05 33 13-2273)</small>					
26 05 33	13-2366	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	50.66 3.46	4.61
26 05 33	13-2367	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	56.64 3.95	5.27
26 05 33	13-2368	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	59.62 4.45	5.93
26 05 33	13-2369	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	62.65 4.94	6.59
26 05 33	13-2370	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	65.03 5.44	7.24
26 05 33	13-2371	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	71.14 5.93	7.90
26 05 33	13-2372	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	83.89 6.67	8.89
26 05 33	13-2373	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	98.65 7.41	9.88
26 05 33	13-2374	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	112.01 8.64	11.53
26 05 33	13-2375	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	125.38 9.88	13.17
26 05 33	13-2376	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	152.64 11.12	14.82
26 05 33	13-2377	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	184.76 12.35	16.46
26 05 33 13-2378 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints <small>(26 05 33 13-2273)</small>					
26 05 33	13-2379	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	65.88 12.35	16.46
26 05 33	13-2380	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	76.87 14.82	19.76
26 05 33	13-2381	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	91.57 17.29	23.05



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2382	EA			1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	111.62	26.35
				<i>For Work In Restricted Working Space, Add</i>	19.76	
26 05 33 13-2383	EA			1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	132.71	27.99
				<i>For Work In Restricted Working Space, Add</i>	21.00	
26 05 33 13-2384	EA			2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	167.05	29.64
				<i>For Work In Restricted Working Space, Add</i>	22.23	
26 05 33 13-2385	EA			2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	224.49	31.29
				<i>For Work In Restricted Working Space, Add</i>	23.47	
26 05 33 13-2386	EA			3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	263.70	32.93
				<i>For Work In Restricted Working Space, Add</i>	24.70	
26 05 33 13-2387	EA			3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	309.51	34.58
				<i>For Work In Restricted Working Space, Add</i>	25.94	
26 05 33 13-2388	EA			4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	355.32	36.22
				<i>For Work In Restricted Working Space, Add</i>	27.17	
26 05 33 13-2389	EA			5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	409.16	37.88
				<i>For Work In Restricted Working Space, Add</i>	28.40	
26 05 33 13-2390	EA			6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	632.68	39.52
				<i>For Work In Restricted Working Space, Add</i>	29.64	
26 05 33 13-2391				Spacers <small>(26 05 33 13-1962)</small>		
				Note: For concrete encasement applications. See CSI section 03 31 13 00-0039 for concrete., 26 05 33 13-1962 for conduit.		
26 05 33 13-2392	EA			1" Base Spacers, Average 4" Wide, Direct Burial.....	8.56	
26 05 33 13-2393	EA			1" Intermediate Spacers, Average 4" Wide, Direct Burial.....	9.22	
26 05 33 13-2394	EA			1-1/4" Base Spacer, Average 4" Wide, Direct Burial.....	10.20	
26 05 33 13-2395	EA			1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial.....	11.01	
26 05 33 13-2396	EA			1-1/2" Base Spacer, Average 4" Wide, Direct Burial.....	10.28	
26 05 33 13-2397	EA			1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	11.06	
26 05 33 13-2398	EA			2" Base Spacer, Average 4" Wide, Direct Burial.....	12.81	
26 05 33 13-2399	EA			2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	11.89	
26 05 33 13-2400	EA			2-1/2" Base Spacer, Average 4" Wide, Direct Burial.....	14.16	
26 05 33 13-2401	EA			2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	13.69	
26 05 33 13-2402	EA			3" Base Spacer, Average 4" Wide, Direct Burial.....	16.23	
26 05 33 13-2403	EA			3" Intermediate Spacers, Average 4" Wide, Direct Burial.....	15.48	
26 05 33 13-2404	EA			3-1/2" Base Spacer, Average 4" Wide, Direct Burial.....	17.58	
26 05 33 13-2405	EA			3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	16.80	
26 05 33 13-2406	EA			4" Base Spacer, Average 4" Wide, Direct Burial.....	18.11	
26 05 33 13-2407	EA			4" Intermediate Spacers, Average 4" Wide, Direct Burial.....	17.27	
26 05 33 13-2408	EA			5" Base Spacer, Average 4" Wide, Direct Burial.....	20.02	
26 05 33 13-2409	EA			5" Intermediate Spacers, Average 4" Wide, Direct Burial.....	19.03	
26 05 33 13-2410	EA			6" Base Spacer, Average 4" Wide, Direct Burial.....	22.46	
26 05 33 13-2411	EA			6" Intermediate Spacers, Average 4" Wide, Direct Burial.....	21.64	
26 05 33 13-2412				Conduit Field Bending <small>(26 05 33 13-0057)</small>		
26 05 33 13-2413				Metallic Conduit Field Bending <small>(26 05 33 13-2412)</small>		
				Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT), Intermediate Metal Conduit (IMC) and aluminum conduits.		
26 05 33 13-2414	EA			1-1/4" Metallic Conduit Field Bending.....	14.84	
26 05 33 13-2415	EA			1-1/2" Metallic Conduit Field Bending.....	19.78	
26 05 33 13-2416	EA			2" Metallic Conduit Field Bending.....	24.72	
26 05 33 13-2417	EA			2-1/2" Metallic Conduit Field Bending.....	34.62	
26 05 33 13-2418	EA			3" Metallic Conduit Field Bending.....	44.50	
26 05 33 13-2419	EA			3-1/2" Metallic Conduit Field Bending.....	54.40	
26 05 33 13-2420	EA			4" Metallic Conduit Field Bending.....	64.29	
26 05 33 13-2421	EA			5" Metallic Conduit Field Bending.....	79.12	
26 05 33 13-2422	EA			6" Metallic Conduit Field Bending.....	93.96	
26 05 33 13-2423				Plastic Conduit Field Bending <small>(26 05 33 13-2412)</small>		
				Note: For PVC conduits.		
26 05 33 13-2424	EA			1" Plastic Conduit Field Bending.....	22.75	
26 05 33 13-2425	EA			1-1/4" Plastic Conduit Field Bending.....	24.72	
26 05 33 13-2426	EA			1-1/2" Plastic Conduit Field Bending.....	29.68	
26 05 33 13-2427	EA			2" Plastic Conduit Field Bending.....	39.56	
26 05 33 13-2428	EA			2-1/2" Plastic Conduit Field Bending.....	49.46	
26 05 33 13-2429	EA			3" Plastic Conduit Field Bending.....	59.34	
26 05 33 13-2430	EA			3-1/2" Plastic Conduit Field Bending.....	69.24	
26 05 33 13-2431	EA			4" Plastic Conduit Field Bending.....	79.12	
26 05 33 13-2432	EA			5" Plastic Conduit Field Bending.....	89.02	
26 05 33 13-2433	EA			6" Plastic Conduit Field Bending.....	98.90	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT
 UNIT COST
 DEMOLITION
 UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2434			Cut And Thread Existing In-Place Threaded Conduit (26 05 33 13-0057) Note: For use when connecting conduit to an existing in-place system.		
26 05 33 13-2435	EA		1/2", Cut And Thread Existing In-Place Threaded Conduit .....28.99 <i>For Work In Restricted Working Space, Add</i> 8.70	28.99	
26 05 33 13-2436	EA		3/4", Cut And Thread Existing In-Place Threaded Conduit .....31.89 <i>For Work In Restricted Working Space, Add</i> 9.57	31.89	
26 05 33 13-2437	EA		1", Cut And Thread Existing In-Place Threaded Conduit .....34.79 <i>For Work In Restricted Working Space, Add</i> 10.44	34.79	
26 05 33 13-2438	EA		1-1/4", Cut And Thread Existing In-Place Threaded Conduit .....37.69 <i>For Work In Restricted Working Space, Add</i> 11.31	37.69	
26 05 33 13-2439	EA		1-1/2", Cut And Thread Existing In-Place Threaded Conduit .....39.62 <i>For Work In Restricted Working Space, Add</i> 11.89	39.62	
26 05 33 13-2440	EA		2", Cut And Thread Existing In-Place Threaded Conduit .....41.56 <i>For Work In Restricted Working Space, Add</i> 12.47	41.56	
26 05 33 13-2441	EA		2-1/2", Cut And Thread Existing In-Place Threaded Conduit .....43.49 <i>For Work In Restricted Working Space, Add</i> 13.05	43.49	
26 05 33 13-2442	EA		3", Cut And Thread Existing In-Place Threaded Conduit .....45.42 <i>For Work In Restricted Working Space, Add</i> 13.63	45.42	
26 05 33 13-2443	EA		3-1/2", Cut And Thread Existing In-Place Threaded Conduit .....46.38 <i>For Work In Restricted Working Space, Add</i> 13.91	46.38	
26 05 33 13-2444	EA		4", Cut And Thread Existing In-Place Threaded Conduit .....47.36 <i>For Work In Restricted Working Space, Add</i> 14.21	47.36	
26 05 33 13-2445	EA		5", Cut And Thread Existing In-Place Threaded Conduit .....49.28 <i>For Work In Restricted Working Space, Add</i> 14.78	49.28	
26 05 33 13-2446	EA		6", Cut And Thread Existing In-Place Threaded Conduit .....51.22 <i>For Work In Restricted Working Space, Add</i> 15.37	51.22	
26 05 33 13-2447			Conduit Bodies (26 05 33 13-0057)		
26 05 33 13-2448			Threaded, Cast Aluminum Conduit Body (26 05 33 13-2447)		
26 05 33 13-2449			Type LB, Threaded, Two Hub Cast Aluminum Conduit Body (26 05 33 13-2448)		
26 05 33 13-2450	EA		1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....48.53 <i>For Mogul LB, Add</i> 2.53 <i>For Work In Restricted Working Space, Add</i> 12.70 <i>For Installation Above 14', Add</i> 6.35 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 12.70	48.53	16.94
26 05 33 13-2451	EA		3/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....56.93 <i>For Mogul LB, Add</i> 3.87 <i>For Work In Restricted Working Space, Add</i> 14.56 <i>For Installation Above 14', Add</i> 7.28 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.56	56.93	19.41
26 05 33 13-2452	EA		1" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....68.42 <i>For Mogul LB, Add</i> 6.15 <i>For Work In Restricted Working Space, Add</i> 16.94 <i>For Installation Above 14', Add</i> 8.47 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 16.94	68.42	22.59
26 05 33 13-2453	EA		1-1/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....82.26 <i>For Mogul LB, Add</i> 10.18 <i>For Work In Restricted Working Space, Add</i> 19.32 <i>For Installation Above 14', Add</i> 9.66 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 19.32	82.26	25.76
26 05 33 13-2454	EA		1-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....93.62 <i>For Mogul LB, Add</i> 13.75 <i>For Work In Restricted Working Space, Add</i> 21.17 <i>For Installation Above 14', Add</i> 10.59 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 21.17	93.62	28.23
26 05 33 13-2455	EA		2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....121.91 <i>For Mogul LB, Add</i> 23.67 <i>For Work In Restricted Working Space, Add</i> 25.41 <i>For Installation Above 14', Add</i> 12.71 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 25.41	121.91	33.87
26 05 33 13-2456	EA		2-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....201.46 <i>For Mogul LB, Add</i> 55.82 <i>For Work In Restricted Working Space, Add</i> 35.73 <i>For Installation Above 14', Add</i> 17.87 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 35.73	201.46	47.65
26 05 33 13-2457	EA		3" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....265.14 <i>For Mogul LB, Add</i> 71.82 <i>For Work In Restricted Working Space, Add</i> 47.64 <i>For Installation Above 14', Add</i> 23.82 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 47.64	265.14	63.52
26 05 33 13-2458	EA		3-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....350.59 <i>For Mogul LB, Add</i> 104.14 <i>For Work In Restricted Working Space, Add</i> 59.55 <i>For Installation Above 14', Add</i> 29.78 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 59.55	350.59	79.41
26 05 33 13-2459	EA		4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....453.07 <i>For Mogul LB, Add</i> 146.42 <i>For Work In Restricted Working Space, Add</i> 72.52 <i>For Installation Above 14', Add</i> 36.26 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 72.52	453.07	96.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2460 Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2448)</small>		
26 05 33 13-2461 EA 1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	49.28	16.94
For Mogul LB, Add	3.09	
For Work In Restricted Working Space, Add	12.70	
For Installation Above 14', Add	6.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.70	
26 05 33 13-2462 EA 3/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	57.67	19.41
For Mogul LB, Add	4.43	
For Work In Restricted Working Space, Add	14.56	
For Installation Above 14', Add	7.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.56	
26 05 33 13-2463 EA 1" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	69.90	22.59
For Mogul LB, Add	7.26	
For Work In Restricted Working Space, Add	16.94	
For Installation Above 14', Add	8.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.94	
26 05 33 13-2464 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	84.06	25.76
For Mogul LB, Add	11.53	
For Work In Restricted Working Space, Add	19.32	
For Installation Above 14', Add	9.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.32	
26 05 33 13-2465 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	96.69	28.23
For Mogul LB, Add	16.05	
For Work In Restricted Working Space, Add	21.17	
For Installation Above 14', Add	10.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.17	
26 05 33 13-2466 EA 2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	128.49	33.87
For Mogul LB, Add	28.61	
For Work In Restricted Working Space, Add	25.41	
For Installation Above 14', Add	12.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.41	
26 05 33 13-2467 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	198.14	47.65
For Mogul LB, Add	53.33	
For Work In Restricted Working Space, Add	35.73	
For Installation Above 14', Add	17.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.73	
26 05 33 13-2468 EA 3" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	253.98	63.52
For Mogul LB, Add	63.45	
For Work In Restricted Working Space, Add	47.64	
For Installation Above 14', Add	23.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.64	
26 05 33 13-2469 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	360.10	79.41
For Mogul LB, Add	111.28	
For Work In Restricted Working Space, Add	59.55	
For Installation Above 14', Add	29.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.55	
26 05 33 13-2470 EA 4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	472.52	96.69
For Mogul LB, Add	161.01	
For Work In Restricted Working Space, Add	72.52	
For Installation Above 14', Add	36.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.52	
26 05 33 13-2471 Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2448)</small>		
26 05 33 13-2472 EA 1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	56.73	19.41
For Work In Restricted Working Space, Add	14.56	
For Installation Above 14', Add	7.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.56	
26 05 33 13-2473 EA 3/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	67.02	22.59
For Work In Restricted Working Space, Add	16.94	
For Installation Above 14', Add	8.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.94	
26 05 33 13-2474 EA 1" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	76.70	24.70
For Work In Restricted Working Space, Add	18.53	
For Installation Above 14', Add	9.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.53	
26 05 33 13-2475 EA 1-1/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	93.23	28.23
For Work In Restricted Working Space, Add	21.17	
For Installation Above 14', Add	10.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.17	
26 05 33 13-2476 EA 1-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	107.07	31.06
For Work In Restricted Working Space, Add	23.29	
For Installation Above 14', Add	11.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.29	
26 05 33 13-2477 EA 2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	141.23	36.35
For Work In Restricted Working Space, Add	27.26	
For Installation Above 14', Add	13.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.26	
26 05 33 13-2478 EA 2-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	221.31	52.94
For Work In Restricted Working Space, Add	39.70	
For Installation Above 14', Add	19.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.70	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2479	EA	3"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	286.09 51.61 25.80 51.61	68.81
26 05 33 13-2480	EA	3-1/2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	448.64 63.52 31.76 63.52	84.70
26 05 33 13-2481	EA	4"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	515.80 76.49 38.24 76.49	101.99
26 05 33 13-2482			Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2482)</small>		
26 05 33 13-2483	EA	1/2"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.43 12.70 6.35 12.70	16.94
26 05 33 13-2484	EA	3/4"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.15 14.56 7.28 14.56	19.41
26 05 33 13-2485	EA	1"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.42 16.67 8.34 16.67	22.23
26 05 33 13-2486	EA	1-1/4"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.34 19.32 9.66 19.32	25.76
26 05 33 13-2487	EA	1-1/2"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	93.12 21.17 10.59 21.17	28.23
26 05 33 13-2488	EA	2"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.97 25.41 12.71 25.41	33.87
26 05 33 13-2489	EA	2-1/2"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	195.35 35.73 17.87 35.73	47.65
26 05 33 13-2490	EA	3"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	252.20 47.64 23.82 47.64	63.52
26 05 33 13-2491	EA	3-1/2"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	354.38 59.55 29.78 59.55	79.41
26 05 33 13-2492	EA	4"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	454.85 72.52 36.26 72.52	96.69
26 05 33 13-2493			Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2493)</small>		
26 05 33 13-2494	EA	1/2"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.65 16.67 8.34 16.67	22.23
26 05 33 13-2495	EA	3/4"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.38 18.53 9.26 18.53	24.70
26 05 33 13-2496	EA	1"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.97 20.38 10.19 20.38	27.17
26 05 33 13-2497	EA	1-1/4"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104.76 23.29 11.64 23.29	31.06
26 05 33 13-2498	EA	1-1/2"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.21 25.41 12.71 25.41	33.87
26 05 33 13-2499	EA	2"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	160.13 31.23 15.62 31.23	41.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2500 EA 2-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	291.65	61.05
For Work In Restricted Working Space, Add	45.79	
For Installation Above 14', Add	22.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.79	
26 05 33 13-2501 EA 3" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	361.36	79.41
For Work In Restricted Working Space, Add	59.55	
For Installation Above 14', Add	29.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.55	
26 05 33 13-2502 EA 3-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	509.69	98.11
For Work In Restricted Working Space, Add	74.11	
For Installation Above 14', Add	37.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.11	
26 05 33 13-2503 EA 4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	615.09	117.87
For Work In Restricted Working Space, Add	88.40	
For Installation Above 14', Add	44.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.40	
26 05 33 13-2504 Threaded, Malleable Iron Conduit Body <small>(26 05 33 13-2447)</small>		
26 05 33 13-2505 Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2504)</small>		
26 05 33 13-2506 EA 1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	50.63	16.94
For Work In Restricted Working Space, Add	12.70	
For Installation Above 14', Add	6.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.70	
26 05 33 13-2507 EA 3/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	58.69	19.41
For Work In Restricted Working Space, Add	14.56	
For Installation Above 14', Add	7.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.56	
26 05 33 13-2508 EA 1" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	71.61	22.59
For Work In Restricted Working Space, Add	16.94	
For Installation Above 14', Add	8.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.94	
26 05 33 13-2509 EA 1-1/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	91.58	25.76
For Work In Restricted Working Space, Add	19.32	
For Installation Above 14', Add	9.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.32	
26 05 33 13-2510 EA 1-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	103.92	28.23
For Work In Restricted Working Space, Add	21.17	
For Installation Above 14', Add	10.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.17	
26 05 33 13-2511 EA 2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	140.50	33.87
For Work In Restricted Working Space, Add	25.41	
For Installation Above 14', Add	12.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.41	
26 05 33 13-2512 EA 2-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	233.31	47.65
For Work In Restricted Working Space, Add	35.73	
For Installation Above 14', Add	17.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.73	
26 05 33 13-2513 EA 3" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	329.19	63.52
For Work In Restricted Working Space, Add	47.64	
For Installation Above 14', Add	23.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.64	
26 05 33 13-2514 EA 3-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	450.74	79.41
For Work In Restricted Working Space, Add	59.55	
For Installation Above 14', Add	29.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.55	
26 05 33 13-2515 EA 4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	540.00	96.69
For Work In Restricted Working Space, Add	72.52	
For Installation Above 14', Add	36.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.52	
26 05 33 13-2516 Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2504)</small>		
26 05 33 13-2517 EA 1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	52.55	16.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.70	
26 05 33 13-2518 EA 3/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	59.25	19.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.56	
26 05 33 13-2519 EA 1" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	74.54	22.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.94	
26 05 33 13-2520 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	93.55	25.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.32	
26 05 33 13-2521 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	106.32	28.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.17	
26 05 33 13-2522 EA 2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	135.57	33.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.41	
26 05 33 13-2523 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	205.93	47.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.73	
26 05 33 13-2524 EA 3" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	279.95	63.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.64	
26 05 33 13-2525 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	479.74	79.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.55	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2526	EA	4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	561.39 72.52	96.69
26 05 33	13-2527		Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2526)</small>		
26 05 33	13-2528	EA	1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.22 14.56 7.28 14.56	19.41
26 05 33	13-2529	EA	3/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.36 17.21 8.60 17.21	22.59
26 05 33	13-2530	EA	1" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.97 18.53 9.26 18.53	24.70
26 05 33	13-2531	EA	1-1/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.21 20.91 10.45 20.91	28.23
26 05 33	13-2532	EA	1-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	122.71 23.29 11.64 23.29	31.06
26 05 33	13-2533	EA	2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	161.51 27.26 13.63 27.26	36.35
26 05 33	13-2534	EA	2-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	206.43 39.70 19.85 39.70	52.94
26 05 33	13-2535	EA	3" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	295.17 51.61 25.80 51.61	68.81
26 05 33	13-2536	EA	3-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	506.37 63.52 31.76 63.52	84.70
26 05 33	13-2537	EA	4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	587.08 76.75 38.38 76.75	101.99
26 05 33	13-2538		Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2534)</small>		
26 05 33	13-2539	EA	1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.78 12.70 6.35 12.70	16.94
26 05 33	13-2540	EA	3/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.18 14.56 7.28 14.56	19.41
26 05 33	13-2541	EA	1" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.42 16.67 8.34 16.67	22.23
26 05 33	13-2542	EA	1-1/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.19 19.32 9.66 19.32	25.76
26 05 33	13-2543	EA	1-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.70 21.17 10.59 21.17	28.23
26 05 33	13-2544	EA	2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	142.43 25.41 12.71 25.41	33.87
26 05 33	13-2545	EA	2-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	322.55 67.00 33.50 67.00	89.37
26 05 33	13-2546	EA	3" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	300.63 47.64 23.82 47.64	63.52
26 05 33	13-2547	EA	3-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	479.74 59.55 29.78 59.55	79.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2548 EA 4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	561.38	96.69
For Work In Restricted Working Space, Add	72.52	
For Installation Above 14', Add	36.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.52	
26 05 33 13-2549 Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover (26 05 33		
13-2504)		
26 05 33 13-2550 EA 1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	70.76	22.23
For Work In Restricted Working Space, Add	16.67	
For Installation Above 14', Add	8.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.67	
26 05 33 13-2551 EA 3/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	77.50	24.70
For Work In Restricted Working Space, Add	18.53	
For Installation Above 14', Add	9.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.53	
26 05 33 13-2552 EA 1" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	89.54	27.17
For Work In Restricted Working Space, Add	20.38	
For Installation Above 14', Add	10.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.38	
26 05 33 13-2553 EA 1-1/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	106.16	31.06
For Work In Restricted Working Space, Add	23.29	
For Installation Above 14', Add	11.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.29	
26 05 33 13-2554 EA 1-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	121.92	33.87
For Work In Restricted Working Space, Add	25.41	
For Installation Above 14', Add	12.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.41	
26 05 33 13-2555 EA 2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	168.90	41.64
For Work In Restricted Working Space, Add	31.23	
For Installation Above 14', Add	15.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.23	
26 05 33 13-2556 EA 2-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	268.32	61.05
For Work In Restricted Working Space, Add	45.79	
For Installation Above 14', Add	22.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.79	
26 05 33 13-2557 EA 3" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	390.75	79.41
For Work In Restricted Working Space, Add	59.55	
For Installation Above 14', Add	29.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.55	
26 05 33 13-2558 EA 3-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	577.72	98.11
For Work In Restricted Working Space, Add	73.58	
For Installation Above 14', Add	36.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.58	
26 05 33 13-2559 EA 4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	647.65	117.87
For Work In Restricted Working Space, Add	88.40	
For Installation Above 14', Add	44.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.40	
26 05 33 13-2560 Set Screw, Cast Aluminum Conduit Body (26 05 33 13-2447)		
26 05 33 13-2561 Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05		
33 13-2560)		
26 05 33 13-2562 EA 1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	23.97	6.70
For Work In Restricted Working Space, Add	5.03	
For Installation Above 14', Add	2.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.03	
26 05 33 13-2563 EA 3/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	30.71	8.82
For Work In Restricted Working Space, Add	6.62	
For Installation Above 14', Add	3.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.62	
26 05 33 13-2564 EA 1" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	41.32	10.94
For Work In Restricted Working Space, Add	8.21	
For Installation Above 14', Add	4.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 05 33 13-2565 EA 1-1/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	53.39	13.41
For Work In Restricted Working Space, Add	10.06	
For Installation Above 14', Add	5.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.06	
26 05 33 13-2566 EA 1-1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	69.72	15.52
For Work In Restricted Working Space, Add	11.65	
For Installation Above 14', Add	5.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.65	
26 05 33 13-2567 EA 2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	91.67	17.65
For Work In Restricted Working Space, Add	13.23	
For Installation Above 14', Add	6.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.23	
26 05 33 13-2568 Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With		
Cover (26 05 33 13-2560)		
26 05 33 13-2569 EA 1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	24.17	6.70
For Work In Restricted Working Space, Add	5.03	
For Installation Above 14', Add	2.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.03	

26 Electrical

26 05 Common Work Results For Electrical

26 05 33 Raceway And Boxes For Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2570	EA	3/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.47 6.62 3.31 6.62	8.82
26 05 33	13-2571	EA	1" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.67 8.21 4.10 8.21	10.94
26 05 33	13-2572	EA	1-1/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.16 10.06 5.03 10.06	13.41
26 05 33	13-2573	EA	1-1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.33 11.65 5.82 11.65	15.52
26 05 33	13-2574	EA	2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.29 13.23 6.62 13.23	17.65
26 05 33 13-2575 Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2560)					
26 05 33	13-2576	EA	1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.12 6.62 3.31 6.62	8.82
26 05 33	13-2577	EA	3/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.41 8.21 4.10 8.21	10.94
26 05 33	13-2578	EA	1" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.79 10.06 5.03 10.06	13.41
26 05 33	13-2579	EA	1-1/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.94 12.17 6.09 12.17	15.52
26 05 33	13-2580	EA	1-1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.43 14.30 7.15 14.30	17.65
26 05 33	13-2581	EA	2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.07 16.41 8.21 16.41	19.76
26 05 33 13-2582 Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2560)					
26 05 33	13-2583	EA	1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.81 5.03 2.52 5.03	6.70
26 05 33	13-2584	EA	3/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.16 6.62 3.31 6.62	8.82
26 05 33	13-2585	EA	1" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.28 8.21 4.10 8.21	10.94
26 05 33	13-2586	EA	1-1/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.53 10.06 5.03 10.06	13.41
26 05 33	13-2587	EA	1-1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.09 11.65 5.82 11.65	15.52
26 05 33	13-2588	EA	2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.63 13.23 6.62 13.23	17.65
26 05 33 13-2589 Aluminum Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) ^(26 05 33 13-2447)					
26 05 33	13-2590	EA	3/4" To 1-1/4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB120) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104.09 14.51	19.32
26 05 33	13-2591	EA	1-1/2" To 2-1/2" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB250) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	363.41 26.81	35.73
26 05 33	13-2592	EA	3" To 4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB400) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	701.68 54.39	72.52



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2593	Replacement Covers And Gaskets For Conduit Body <small>(26 05 33 13-2447)</small>			
26 05 33 13-2594	Replacement Stamped Aluminum Conduit Body Cover <small>(26 05 33 13-2593)</small>			
26 05 33 13-2595	EA	1/2" Replacement Stamped Aluminum Conduit Body Cover	8.92	3.44
26 05 33 13-2596	EA	3/4" Replacement Stamped Aluminum Conduit Body Cover	10.86	4.02
26 05 33 13-2597	EA	1" Replacement Stamped Aluminum Conduit Body Cover	13.92	5.16
26 05 33 13-2598	EA	1-1/4" Replacement Stamped Aluminum Conduit Body Cover	16.95	6.30
26 05 33 13-2599	EA	1-1/2" Replacement Stamped Aluminum Conduit Body Cover	20.77	7.46
26 05 33 13-2600	EA	2" Replacement Stamped Aluminum Conduit Body Cover	24.60	8.60
26 05 33 13-2601	EA	2-1/2" Replacement Stamped Aluminum Conduit Body Cover	32.27	9.75
26 05 33 13-2602	EA	3" Replacement Stamped Aluminum Conduit Body Cover	41.97	13.76
26 05 33 13-2603	EA	3-1/2" Replacement Stamped Aluminum Conduit Body Cover	45.59	15.48
26 05 33 13-2604	EA	4" Replacement Stamped Aluminum Conduit Body Cover	57.43	19.49
26 05 33 13-2605	Replacement Cast Steel Conduit Body Cover <small>(26 05 33 13-2593)</small>			
26 05 33 13-2606	EA	1/2" Replacement Cast Steel Conduit Body Cover	10.30	3.44
26 05 33 13-2607	EA	3/4" Replacement Cast Steel Conduit Body Cover	12.06	4.02
26 05 33 13-2608	EA	1" Replacement Cast Steel Conduit Body Cover	16.88	5.16
26 05 33 13-2609	EA	1-1/4" Replacement Cast Steel Conduit Body Cover	20.97	6.30
26 05 33 13-2610	EA	1-1/2" Replacement Cast Steel Conduit Body Cover	25.45	7.46
26 05 33 13-2611	EA	2" Replacement Cast Steel Conduit Body Cover	29.95	8.60
26 05 33 13-2612	EA	2-1/2" Replacement Cast Steel Conduit Body Cover	34.39	9.75
26 05 33 13-2613	EA	3" Replacement Cast Steel Conduit Body Cover	46.99	13.76
26 05 33 13-2614	EA	3-1/2" Replacement Cast Steel Conduit Body Cover	53.50	15.48
26 05 33 13-2615	EA	4" Replacement Cast Steel Conduit Body Cover	67.44	19.49
26 05 33 13-2616	Replacement Velbuna Composition Conduit Body Gasket <small>(26 05 33 13-2593)</small>			
26 05 33 13-2617	EA	1/2" Replacement Velbuna Composition Conduit Body Gasket	8.30	3.44
26 05 33 13-2618	EA	3/4" Replacement Velbuna Composition Conduit Body Gasket	9.48	4.02
26 05 33 13-2619	EA	1" Replacement Velbuna Composition Conduit Body Gasket	12.37	5.16
26 05 33 13-2620	EA	1-1/4" Replacement Velbuna Composition Conduit Body Gasket	16.02	6.30
26 05 33 13-2621	EA	1-1/2" Replacement Velbuna Composition Conduit Body Gasket	18.31	7.46
26 05 33 13-2622	EA	2" Replacement Velbuna Composition Conduit Body Gasket	21.75	8.60
26 05 33 13-2623	EA	2-1/2" Replacement Velbuna Composition Conduit Body Gasket	28.37	9.75
26 05 33 13-2624	EA	3" Replacement Velbuna Composition Conduit Body Gasket	37.11	13.76
26 05 33 13-2625	EA	3-1/2" Replacement Velbuna Composition Conduit Body Gasket	40.98	15.48
26 05 33 13-2626	EA	4" Replacement Velbuna Composition Conduit Body Gasket	48.92	19.49
26 05 33 13-2627	Replacement Neoprene Conduit Body Gasket <small>(26 05 33 13-2593)</small>			
26 05 33 13-2628	EA	1/2" Replacement Neoprene Conduit Body Gasket	9.26	3.44
26 05 33 13-2629	EA	3/4" Replacement Neoprene Conduit Body Gasket	10.40	4.02
26 05 33 13-2630	EA	1" Replacement Neoprene Conduit Body Gasket	13.57	5.16
26 05 33 13-2631	EA	1-1/4" Replacement Neoprene Conduit Body Gasket	16.63	6.30
26 05 33 13-2632	EA	1-1/2" Replacement Neoprene Conduit Body Gasket	18.92	7.46
26 05 33 13-2633	EA	2" Replacement Neoprene Conduit Body Gasket	21.81	8.60
26 05 33 13-2634	EA	2-1/2" Replacement Neoprene Conduit Body Gasket	28.52	9.75
26 05 33 13-2635	EA	3" Replacement Neoprene Conduit Body Gasket	37.26	13.76
26 05 33 13-2636	EA	3-1/2" Replacement Neoprene Conduit Body Gasket	42.01	15.48
26 05 33 13-2637	EA	4" Replacement Neoprene Conduit Body Gasket	49.95	19.49
26 05 33 16	Boxes For Electrical Systems <small>(26 05 33)</small>			
	<small>See CSI section 26 27 16 00-0000 for larger junction boxes and enclosures.</small>			
26 05 33 16-0001	Steel Junction, Device, And Fixture Boxes, Rings And Covers <small>(26 05 33 16)</small>			
	<small>Note: Thin wall metal. See CSI section 26 27 26 00-0003 for steel box/receptacle assemblies, 26 27 26 00-0128 for steel box/switch assemblies.</small>			
26 05 33 16-0002	4" Square Steel Boxes, Rings And Covers <small>(26 05 33 16-0001)</small>			
26 05 33 16-0003	EA	1-1/2" Depth, 4" Square Steel Box	31.64	14.48
		<i>For Stud Bracket, Add</i>	0.66	
26 05 33 16-0004	EA	2-1/8" Depth, 4" Square Steel Box	32.86	14.48
		<i>For Stud Bracket, Add</i>	1.19	
26 05 33 16-0005	EA	3-1/2" Depth, 4" Square Steel Box	37.05	14.48
		<i>For Stud Bracket, Add</i>	1.29	
26 05 33 16-0006	EA	1-1/2" Depth, 4" Square Steel Extension Ring	25.28	9.65
26 05 33 16-0007	EA	2-1/8" Depth, 4" Square Steel Extension Ring	21.03	9.65
26 05 33 16-0008	EA	1/2" Depth, 1 Gang, 4" Square Steel Mud Ring	10.93	4.83
26 05 33 16-0009	EA	5/8" Depth, 1 Gang, 4" Square Steel Mud Ring	11.13	4.83
26 05 33 16-0010	EA	3/4" Depth, 1 Gang, 4" Square Steel Mud Ring	11.27	4.83
26 05 33 16-0011	EA	1" Depth, 1 Gang, 4" Square Steel Mud Ring	11.72	4.83
26 05 33 16-0012	EA	1-1/4" Depth, 1 Gang, 4" Square Steel Mud Ring	11.85	4.83
26 05 33 16-0013	EA	1-1/2" Depth, 1 Gang, 4" Square Steel Mud Ring	13.30	4.83
26 05 33 16-0014	EA	1/2" Depth, 2 Gang, 4" Square Steel Mud Ring	11.48	4.83
26 05 33 16-0015	EA	5/8" Depth, 2 Gang, 4" Square Steel Mud Ring	11.62	4.83
26 05 33 16-0016	EA	3/4" Depth, 2 Gang, 4" Square Steel Mud Ring	11.79	4.83
26 05 33 16-0017	EA	1" Depth, 2 Gang, 4" Square Steel Mud Ring	13.28	4.83

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	16-0018	EA	1-1/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	13.58	4.83
26 05 33	16-0019	EA	1-1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	15.47	4.83
26 05 33	16-0020	EA	3/4" Depth, Fixture Cover, 4" Square Mud Rings.....	12.20	4.83
26 05 33	16-0021	EA	1" Depth, Fixture Cover, 4" Square Mud Rings.....	13.40	4.83
26 05 33	16-0022	EA	One Toggle Switch, 4" Square Steel Exposed Work Cover.....	11.46	4.83
26 05 33	16-0023	EA	Two Toggle Switches, 4" Square Steel Exposed Work Cover.....	11.57	4.83
26 05 33	16-0024	EA	One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	11.43	4.83
26 05 33	16-0025	EA	Two Duplex Receptacles, 4" Square Steel Exposed Work Cover.....	11.75	4.83
26 05 33	16-0026	EA	One Toggle Switch And One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	12.02	4.83
26 05 33	16-0027	EA	One Toggle Switch And One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	15.35	4.83
26 05 33	16-0028	EA	One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	11.97	4.83
26 05 33	16-0029	EA	Two 1.406" Diameter Receptacles, 4" Square Steel Exposed Work Cover.....	15.35	4.83
26 05 33	16-0030	EA	One 1.620" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	11.97	4.83
26 05 33	16-0031	EA	One 1.719" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	12.75	4.83
26 05 33	16-0032	EA	One 2.165" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	15.35	4.83
26 05 33	16-0033	EA	One 2.480" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	15.35	4.83
26 05 33	16-0034	EA	Flat, 4" Square Steel Exposed Work Cover.....	10.51	4.83
26 05 33	16-0035		4-11/16" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)		
26 05 33	16-0036	EA	1-1/2" Depth, 4-11/16" Square Steel Box.....	36.16	14.48
26 05 33	16-0037	EA	2-1/8" Depth, 4-11/16" Square Steel Box.....	33.39	14.48
			<i>For Stud Bracket, Add</i>	0.62	
26 05 33	16-0038	EA	3-1/4" Depth, 4-11/16" Square Steel Box.....	47.27	14.48
26 05 33	16-0039	EA	1-1/2" Depth, 4-11/16" Square Extension Ring.....	26.43	9.65
26 05 33	16-0040	EA	2-1/8" Depth, 4-11/16" Square Extension Ring.....	27.11	9.65
26 05 33	16-0041	EA	1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	13.69	4.83
26 05 33	16-0042	EA	5/8" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	13.73	4.83
26 05 33	16-0043	EA	3/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	14.91	4.83
26 05 33	16-0044	EA	1" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	14.43	4.83
26 05 33	16-0045	EA	1-1/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	14.33	4.83
26 05 33	16-0046	EA	1-1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	19.23	4.83
26 05 33	16-0047	EA	1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	14.63	4.83
26 05 33	16-0048	EA	5/8" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	14.89	4.83
26 05 33	16-0049	EA	3/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	14.91	4.83
26 05 33	16-0050	EA	1" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	16.64	4.83
26 05 33	16-0051	EA	1-1/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	17.00	4.83
26 05 33	16-0052	EA	1-1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	21.20	4.83
26 05 33	16-0053	EA	1/2" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	14.40	4.83
26 05 33	16-0054	EA	5/8" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	14.53	4.83
26 05 33	16-0055	EA	One Toggle Switch, 4-11/16" Square Steel Exposed Work Cover.....	17.78	4.83
26 05 33	16-0056	EA	Two Toggle Switches, 4-11/16" Square Steel Exposed Work Cover.....	18.69	4.83
26 05 33	16-0057	EA	One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	17.51	4.83
26 05 33	16-0058	EA	Two Duplex Receptacles, 4-11/16" Square Steel Exposed Work Cover.....	16.52	4.83
26 05 33	16-0059	EA	One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	19.84	4.83
26 05 33	16-0060	EA	One 1.594" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	18.68	4.83
26 05 33	16-0061	EA	One 2.141" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	18.68	4.83
26 05 33	16-0062	EA	One 2.625" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	18.68	4.83
26 05 33	16-0063	EA	Flat, 4-11/16" Square Steel Exposed Work Cover.....	11.25	4.83
26 05 33	16-0064		Steel Square Box Brackets (26 05 33 16-0001)		
26 05 33	16-0065	EA	16" Or 24" Width Box Bracket, For Multiple 1-1/2" And 2-1/8" Deep Boxes.....	15.74	7.24
26 05 33	16-0066	EA	Single Box Bracket, One 4" Or 4-11/16" Square Box.....	11.57	4.84
26 05 33	16-0067	EA	16" Box Bracket, Up To Three 4" Or 4-11/16" Square Boxes.....	18.68	7.24
26 05 33	16-0068	EA	24" Box Bracket, Up To Four 4" Or 4-11/16" Square Boxes.....	20.19	7.24
26 05 33	16-0069		4" Octagon Steel Boxes And Covers (26 05 33 16-0001)		
26 05 33	16-0070	EA	1-1/2" Depth, 4" Steel Octagon Box.....	26.33	12.06
			<i>For Stud Bracket, Add</i>	1.60	
26 05 33	16-0071	EA	2-1/8" Depth, 4" Steel Octagon Box.....	27.40	12.06
26 05 33	16-0072	EA	Flat, 4" Octagon Steel Exposed Work Cover.....	10.44	4.83
26 05 33	16-0073		4" Steel Octagonal Concrete Rings And Steel Covers (26 05 33 16-0001)		
			Note: Placed in concrete slabs or walls.		
26 05 33	16-0074	EA	2" Depth, 4" Steel Octagonal Concrete Ring.....	43.43	
26 05 33	16-0075	EA	2-1/2" Depth, 4" Steel Octagonal Concrete Ring.....	46.16	
26 05 33	16-0076	EA	3" Depth, 4" Steel Octagonal Concrete Ring.....	48.29	
26 05 33	16-0077	EA	3-1/2" Depth, 4" Steel Octagonal Concrete Ring.....	50.37	
26 05 33	16-0078	EA	4" Depth, 4" Steel Octagonal Concrete Ring.....	55.23	
26 05 33	16-0079	EA	5" Depth, 4" Steel Octagonal Concrete Ring.....	60.29	
26 05 33	16-0080	EA	6" Depth, 4" Steel Octagonal Concrete Ring.....	64.18	
26 05 33	16-0081	EA	Flat, 4" Steel Octagonal Concrete Cover.....	11.91	4.83
26 05 33	16-0082		4-1/2" Steel Gang Boxes (26 05 33 16-0001)		
26 05 33	16-0083	EA	2 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	41.46	12.06
26 05 33	16-0084	EA	3 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	45.60	13.02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0085 EA 4 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	55.10	14.48
26 05 33 16-0086 EA 5 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	72.61	15.92
26 05 33 16-0087 EA 6 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	109.18	17.37
26 05 33 16-0088 EA 2 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	57.96	12.06
26 05 33 16-0089 EA 3 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	63.18	13.02
26 05 33 16-0090 EA 4 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	84.79	14.48
26 05 33 16-0091 EA 5 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	109.53	15.92
26 05 33 16-0092 EA 6 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	182.17	17.37
26 05 33 16-0093 EA 2 Device, Gang Box Mud Ring.....	18.23	4.83
26 05 33 16-0094 EA 3 Device, Gang Box Mud Ring.....	18.51	4.83
26 05 33 16-0095 EA 4 Device, Gang Box Mud Ring.....	21.69	4.83
26 05 33 16-0096 EA 5 Device, Gang Box Mud Ring.....	27.15	4.83
26 05 33 16-0097 EA 6 Device, Gang Box Mud Ring.....	39.14	4.83
26 05 33 16-0098 EA 2 Device, Gang Box Flat Cover	15.50	4.83
26 05 33 16-0099 EA 3 Device, Gang Box Flat Cover	18.48	4.83
26 05 33 16-0100 EA 4 Device, Gang Box Flat Cover	22.43	4.83
26 05 33 16-0101 EA 5 Device, Gang Box Flat Cover	27.46	4.83
26 05 33 16-0102 EA 6 Device, Gang Box Flat Cover	39.99	4.83
26 05 33 16-0103 Steel Switch Boxes <small>(26 05 33 16-0001)</small>		
26 05 33 16-0104 EA 2-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	28.39	12.06
26 05 33 16-0105 EA 2-3/4" Depth, 3" x 2", Stud Bracket, Steel Switch Box	28.85	12.06
26 05 33 16-0106 EA 3-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	31.23	12.06
26 05 33 16-0107 EA 2-1/2" Depth, 2 Device, Stud Bracket, Steel Box	36.58	12.06
26 05 33 16-0108 EA 2-1/2" Depth, 3 Device, Stud Bracket, Steel Box	37.05	12.06
26 05 33 16-0109 EA 2-1/2" Depth, 4 Device, Stud Bracket, Steel Box	44.30	12.06
26 05 33 16-0110 4" x 2" Steel Handy Boxes, Extension Rings And Covers <small>(26 05 33 16-0001)</small>		
26 05 33 16-0111 EA 1-1/2" Deep, 4" x 2" Steel Handy Box.....	26.21	12.06
For Stud Bracket, Add	2.58	
26 05 33 16-0112 EA 1-7/8" Deep, 4" x 2" Steel Handy Box.....	26.71	12.06
For Stud Bracket, Add	1.11	
26 05 33 16-0113 EA 2-1/8" Deep, 4" x 2" Steel Handy Box.....	27.80	12.06
For Stud Bracket, Add	1.51	
26 05 33 16-0114 EA 1-1/2" Deep, 4" x 2" Steel Handy Box Extension Ring.....	17.47	7.23
26 05 33 16-0115 EA 1-7/8" Deep, 4" x 2" Steel Handy Box Extension Ring.....	16.98	7.23
26 05 33 16-0116 EA GFI Receptacle, 2" x 4" Steel Handy Box Exposed Work Cover	5.91	2.41
26 05 33 16-0117 EA 1.406" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	6.00	2.41
26 05 33 16-0118 EA Duplex Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	5.54	2.41
26 05 33 16-0119 EA Toggle Switch, 4" x 2" Steel Handy Box Exposed Work Cover.....	5.57	2.41
26 05 33 16-0120 EA 1.594" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	6.51	2.41
26 05 33 16-0121 EA Flat, 2" x 4" Steel Handy Box Exposed Work Cover	5.57	2.41
26 05 33 16-0122 3"-1/2" Depth, 3-3/4" Steel Masonry Boxes <small>(26 05 33 16-0001)</small>		
26 05 33 16-0123 EA 1 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	39.57	16.89
26 05 33 16-0124 EA 2 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	44.46	17.85
26 05 33 16-0125 EA 3 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	51.16	19.30
26 05 33 16-0126 EA 4 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	58.41	21.23
26 05 33 16-0127 Cast Boxes <small>(26 05 33 16)</small>		
Note: For flush or surface mount.		
26 05 33 16-0128 Cast Iron Alloy Boxes <small>(26 05 33 16-0127)</small>		
See CSI section 26 27 26 00-0265 for box covers.		
26 05 33 16-0129 Shallow, Single Gang Cast Iron Alloy Boxes <small>(26 05 33 16-0128)</small>		
Note: Up to 2" deep boxes.		
26 05 33 16-0130 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box	81.39	28.95
Note: One hub.		
26 05 33 16-0131 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	87.97	33.77
Note: One hub.		
26 05 33 16-0132 EA 1" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	103.73	41.01
Note: One hub.		
26 05 33 16-0133 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box	101.99	38.60
Note: Two hub.		
26 05 33 16-0134 EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box	129.99	45.84
Note: Two hub.		
26 05 33 16-0135 EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....	101.59	38.60
Note: Two hub.		
26 05 33 16-0136 EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....	122.10	45.84
Note: Two hubs.		
26 05 33 16-0137 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box	104.12	38.60
Note: Two hubs.		
26 05 33 16-0138 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box	122.14	45.84
Note: Two hubs.		
26 05 33 16-0139 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	101.59	38.60
Note: Two hubs.		
26 05 33 16-0140 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	119.01	45.84
Note: Two hubs.		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0141 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	121.31	48.25
26 05 33 16-0142 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	143.65	57.90
26 05 33 16-0143 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	126.17	48.25
26 05 33 16-0144 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	162.19	57.90
26 05 33 16-0145 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	129.35	48.25
26 05 33 16-0146 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	154.57	57.90
26 05 33 16-0147 EA 1/2" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	120.90	48.25
26 05 33 16-0148 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	156.72	57.90
26 05 33 16-0149 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box..... Note: Four hubs.	153.69	57.90
26 05 33 16-0150 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box..... Note: Four hubs.	185.43	69.96
26 05 33 16-0151 Deep, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0152 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	84.97	28.95
26 05 33 16-0153 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	97.90	33.77
26 05 33 16-0154 EA 1" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	115.19	41.01
26 05 33 16-0155 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	108.54	38.60
26 05 33 16-0156 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	125.47	45.84
26 05 33 16-0157 EA 1" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	150.84	55.49
26 05 33 16-0158 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	134.40	45.84
26 05 33 16-0159 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	172.77	57.90
26 05 33 16-0160 Shallow, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: Up to 2" deep boxes.		
26 05 33 16-0161 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	97.48	31.36
26 05 33 16-0162 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	108.19	36.19
26 05 33 16-0163 EA 1" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	125.84	43.42
26 05 33 16-0164 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	118.50	41.01
26 05 33 16-0165 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	134.82	48.25
26 05 33 16-0166 Deep, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0167 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	108.23	31.36
26 05 33 16-0168 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	118.30	36.19
26 05 33 16-0169 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	134.68	41.01
26 05 33 16-0170 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	151.91	48.25
26 05 33 16-0171 Cast Aluminum Boxes (26 05 33 16-0127) See CSI section 26 27 26 00-0265 for box covers.		
26 05 33 16-0172 Shallow, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0173 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	71.74	24.13
26 05 33 16-0174 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	82.32	28.95
26 05 33 16-0175 EA 1" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	92.01	36.19
26 05 33 16-0176 EA 1/2" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	67.56	24.13
26 05 33 16-0177 EA 3/4" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	85.26	28.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0178 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	91.44	33.77
26 05 33 16-0179 EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	109.92	41.01
26 05 33 16-0180 EA 1" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	137.81	50.67
26 05 33 16-0181 EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	98.70	33.77
26 05 33 16-0182 EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	106.38	41.01
26 05 33 16-0183 EA 1/2" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	94.57	33.77
26 05 33 16-0184 EA 3/4" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	108.85	41.01
26 05 33 16-0185 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	91.90	33.77
26 05 33 16-0186 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	108.85	41.01
26 05 33 16-0187 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	85.75	33.77
26 05 33 16-0188 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	115.39	41.01
26 05 33 16-0189 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	109.29	43.42
26 05 33 16-0190 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	132.84	53.07
26 05 33 16-0191 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	115.67	43.42
26 05 33 16-0192 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	154.94	53.07
26 05 33 16-0193 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	115.14	43.42
26 05 33 16-0194 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	141.24	53.07
26 05 33 16-0195 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	143.14	53.07
26 05 33 16-0196 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box Note: Four hubs.	140.41	53.07
26 05 33 16-0197 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box Note: Four hubs.	171.44	65.14
26 05 33 16-0198 Deep, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0199 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	79.13	24.13
26 05 33 16-0200 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	94.81	28.95
26 05 33 16-0201 EA 1" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	109.18	36.19
26 05 33 16-0202 EA 3/4" Depth, Type FDA, Deep, Single Gang Cast Aluminum Box Note: One hub.	101.57	28.95
26 05 33 16-0203 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	101.01	33.77
26 05 33 16-0204 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	121.66	41.01
26 05 33 16-0205 EA 1" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	136.71	50.67
26 05 33 16-0206 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	123.23	41.01
26 05 33 16-0207 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Aluminum Box Note: Three hubs.	151.11	53.07
26 05 33 16-0208 Shallow, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0209 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	94.32	26.54
26 05 33 16-0210 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	108.15	31.36
26 05 33 16-0211 EA 1" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	116.79	38.60
26 05 33 16-0212 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	118.30	36.19
26 05 33 16-0213 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	121.52	43.42
26 05 33 16-0214 EA 1" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	150.03	53.07
26 05 33 16-0215 Deep, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0216 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	94.23	26.54

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0217 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	109.16	31.36
26 05 33 16-0218 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	120.61	36.19
26 05 33 16-0219 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	136.99	43.42
26 05 33 16-0220 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	120.61	36.19
26 05 33 16-0221 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	136.99	43.42
26 05 33 16-0222 Shallow, Three Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0223 EA 1/2" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	126.66	38.60
26 05 33 16-0224 EA 3/4" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	142.46	45.84
26 05 33 16-0225 Deep, Three Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0226 EA 3/4" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	143.05	33.77
26 05 33 16-0227 EA 1" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	159.90	41.01
26 05 33 16-0228 Cast Aluminum Explosion Proof Outlet Bodies (26 05 33 16-0127) Note: Class I, Div. 1 & 2; Class II, Div. 1 & 2; and Class III.		
26 05 33 16-0229 EA 1/2" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	148.50	38.60
26 05 33 16-0230 EA 3/4" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	183.51	43.42
26 05 33 16-0231 EA 1" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	168.93	48.25
26 05 33 16-0232 EA 1/2" Depth, Type GRSSA, 13 Opening, Cast Aluminum Explosion Proof Outlet Body	164.65	43.42
26 05 33 16-0233 EA 3/4" Depth, 13 Hubs, Explosion Proof Conduit Outlet Box With Cover Cast Aluminum, Type GRSSA	200.18	48.25
26 05 33 16-0234 Non Metallic (PVC) Boxes (26 05 33 16) See CSI section 26 27 26 00-0265 for box covers.		
26 05 33 16-0235 Shallow, Single Gang Non Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0236 EA 1/2" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box..... Note: One hub.	47.23	20.27
26 05 33 16-0237 EA 3/4" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box..... Note: One hub.	54.19	23.65
26 05 33 16-0238 EA 1" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box Note: One hub.	62.57	28.71
26 05 33 16-0239 EA 1/2" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	60.95	27.02
26 05 33 16-0240 EA 3/4" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	71.77	32.09
26 05 33 16-0241 EA 1" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	87.01	38.84
26 05 33 16-0242 EA 1/2" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	61.12	27.02
26 05 33 16-0243 EA 3/4" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	71.29	32.09
26 05 33 16-0244 EA 1" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	85.39	38.84
26 05 33 16-0245 EA 1/2" Depth, Type FSFC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	77.03	33.77
26 05 33 16-0246 EA 3/4" Depth, Type FSFC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	88.67	40.53
26 05 33 16-0247 EA 1" Depth, Type FSFC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	105.00	48.97
26 05 33 16-0248 Deep, Single Gang Non Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0249 EA No Hub, Type FD, Deep, Single Gang Non Metallic (PVC) Box Note: No hubs.	47.75	20.27
26 05 33 16-0250 EA 1/2" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	46.84	20.27
26 05 33 16-0251 EA 3/4" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	55.43	23.65
26 05 33 16-0252 EA 1" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	63.08	28.71
26 05 33 16-0253 EA 1/2" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	61.97	27.02
26 05 33 16-0254 EA 3/4" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	70.42	32.09
26 05 33 16-0255 EA 1" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	84.39	38.84



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0256	Shallow, Two Gang Non Metallic (PVC) Boxes <small>(26 05 33 16-0234)</small>	
26 05 33 16-0257 EA 1/2" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	50.87	21.95
26 05 33 16-0258 EA 3/4" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	58.37	25.33
26 05 33 16-0259 EA 1" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	66.04	30.40
26 05 33 16-0260 EA 1/2" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	63.19	28.71
26 05 33 16-0261 EA 3/4" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	77.37	33.77
26 05 33 16-0262 EA 1" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	91.81	40.53
26 05 33 16-0263 EA 1/2" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	64.40	28.71
26 05 33 16-0264 EA 3/4" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	80.73	33.77
26 05 33 16-0265 EA 1" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	89.11	40.53
26 05 33 16-0266 EA 1/2" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	78.90	35.47
26 05 33 16-0267 EA 3/4" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	101.85	42.22
26 05 33 16-0268 EA 1" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	108.29	50.67
26 05 33 16-0269	Poke Thru Units <small>(26 05 33 16)</small>	
26 05 33 16-0270	Surface Poke Thru Units <small>(26 05 33 16-0269)</small>	
Note: Excludes concrete drilling. See CSI section 27 11 19 00-0122 for jacks.		
26 05 33 16-0271 EA Single 20 Amp Duplex Receptacle RC3 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC3ATCAL.	423.71	36.19
26 05 33 16-0272 EA Retrofit Kit Upgrades Existing RC3 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes 20 Amp duplex receptacle. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Wiremold RC3KTCAL.	270.67	
26 05 33 16-0273 EA Replacement 20 Amp Duplex Receptacle For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC37REC.	37.70	9.65
26 05 33 16-0274 EA Abandonment Plate For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC3APTCBK.	45.42	4.83
26 05 33 16-0275 EA Four 20 Amp Receptacles RC4 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4ATCAL.	479.16	38.60
26 05 33 16-0276 EA Retrofit Kit Upgrades Existing RC4 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes two 20 Amp duplex receptacles. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4KTCAL.	253.46	
26 05 33 16-0277 EA Replacement Two 20 Amp Duplex Receptacles For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold RC4REC2.	64.58	14.48
26 05 33 16-0278 EA Abandonment Plate For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC4APTCBK.	45.42	4.83
26 05 33 16-0279 EA Abandonment Plug For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold ABPLUG4.	132.27	9.65
26 05 33 16-0280 EA Four Jack RC9AMD Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept four Ortronics TracJack inserts and two Ortronics Series II inserts. Excludes communication jacks. Wiremold RC9AMDTCAL.	379.22	33.77
26 05 33 16-0281 EA Abandonment Plate For RC9 Series Communications Poke Thru Unit Note: Wiremold RC9APTCBK.	31.59	4.83
26 05 33 16-0282 EA Eight Jack AMD8 Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept eight Ortronics TracJack inserts and four Ortronics Series II inserts. Excludes communication jacks. Wiremold AMD8ATCAL.	377.48	33.77
26 05 33 16-0283 EA Communication Conduit Adapter For Poke Thru Units Note: Includes two conduit connections for communication systems. Wiremold COM75.	43.90	4.83
26 05 33 16-0284	Recessed Poke Thru Units <small>(26 05 33 16-0269)</small>	
Note: Excludes concrete drilling.		
26 05 33 16-0285	Evolution 6AT Poke Thru Units <small>(26 05 33 16-0284)</small>	
Note: Excludes concrete drilling.		
26 05 33 16-0286 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 6ATCP) Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	613.50	38.60
26 05 33 16-0287 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 6ATP) Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	613.58	38.60

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	16-0288	EA	Recessed Assembly With Surface Style Cover (Wiremold 6ATC)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	585.21	38.60
26 05 33	16-0289	EA	Recessed Assembly With Flush Style Cover (Wiremold 6AT)..... Note: For tile, wood or laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	585.21	38.60
26 05 33	16-0290	EA	Recessed Prewired Audio/Video Assembly With Surface Style Cover (Wiremold 6ATCPA)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	613.50	38.60
26 05 33	16-0291	EA	Recessed Prewired Audio/Video Assembly With Flush Style Cover (Wiremold 6ATPA)..... Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	613.50	38.60
26 05 33	16-0292	EA	Recessed Furniture Feed Assembly With Surface Style Cover (Wiremold 6ATCFF)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Die-cast aluminum cover assembly provides one (1) 3/4" trade size screw plug opening and one (1) concentric 2"-1 1/4" trade size screw plug opening and is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	561.26	38.60
26 05 33	16-0293	EA	Recessed Assembly With Disposable Plate (Wiremold 6STC)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. No device plates are included. For use with the following cover assemblies (purchased separately): 6CTC, 6CT, and 6CFFTC Series.	355.06	36.19
26 05 33	16-0294	EA	Recessed Prewired Audio/Video Assembly With Disposable Plate (Wiremold 6STCPAV)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies(purchased separately): 6CTC and 6CT Series.	380.08	36.19
26 05 33	16-0295	EA	Recessed Prewired Assembly With Disposable Plate (Wiremold 6STCP)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 6CTC and 6CT Series.	382.56	36.19
26 05 33	16-0296	EA	6" Pre-Pour Poke-Thru Sleeve (Wiremold 6PPS)..... Note: Nonmetallic sleeve attaches to structural decking and maintains 6"-6 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	110.82	19.30
26 05 33	16-0297	EA	Surface Style Cover Assembly (Wiremold 6CTC)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CTC Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies.	245.71	9.65
26 05 33	16-0298	EA	Flush Style Cover Assembly (Wiremold 6CT)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CT Series cover assemblies designed for use with 6STC, 6STCP and 6STCPAV Poke-Thru Stem Assemblies. Includes one (1) 6TS Tile Shim.	245.71	9.65
26 05 33	16-0299	EA	Furniture Feed Cover Assembly (Wiremold 6CFFTC)..... Note: Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2"-1 1/4" trade size screw plug opening. Cover assembly is available in finishes: black (BK), gray(GY), nickel (NK), brass (BS), and bronze (BZ). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke- Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services.	204.68	9.65
26 05 33	16-0300	EA	Tile Shim (Wiremold 6TS)..... Note: Used for floor coverings greater than 5/16" The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" of adjustment.	29.88	2.41
26 05 33	16-0301	EA	Device Mounting Plate (Wiremold 6AAP)..... Note: Device plate that will accept up to two (2) Extron® Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.	15.60	4.83
26 05 33	16-0302	EA	Device Mounting Plate (Wiremold 6ACT8A)..... Note: Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.	17.82	4.83
26 05 33	16-0303	EA	Device Mounting Plate (Wiremold 6B)..... Note: Device plate used to blank off center compartment, when no devices are used.	15.54	4.83
26 05 33	16-0304	EA	Device Mounting Plate (Wiremold 6DEC)..... Note: Device plate that will accept Decorator style devices such as 20A receptacles, GFCIs, 106 adapters or A/V devices. For use in the center compartment only. Devices supplied by others.	15.58	4.83
26 05 33	16-0305	EA	Device Mounting Plate (Wiremold 6DP)..... Note: Device plate that will accept standard 20A duplex receptacle or duplex Turnlok receptacle. For use in the center compartment only. Devices supplied by others.	15.48	4.83
26 05 33	16-0306	EA	Device Mounting Plate (Wiremold 6MAAP)..... Note: Device plate that will accept up to six (6) Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.	18.06	4.83
26 05 33	16-0307	EA	Device Mounting Plate (Wiremold 6MAAP2A)..... Note: Combination device plate that will accept up to three (3) Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.	17.88	4.83
26 05 33	16-0308	EA	Mosaic Mounting Plate (Wiremold 6MOS)..... Note: Device plate will accept two (2) standard [45mm x 45mm] or one (1) standard [45mm x 90mm] Mosaic style device(s). Devices supplied by others.	18.28	4.83
26 05 33	16-0309	EA	Device Mounting Plate (Wiremold 6S1)..... Note: Receptacle opening 1 3/8". For 6" poke-thru units only.	15.27	4.83
26 05 33	16-0310	EA	Device Mounting Plate (Wiremold 6S2)..... Note: Receptacle opening 1 9/16". For 6" poke-thru units only.	15.28	4.83
26 05 33	16-0311	EA	Device Mounting Plate (Wiremold 6SER)..... Note: Device plate that will accept up to four (4) Ortronics® Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.	15.09	4.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0312 EA Device Mounting Plate (Wiremold 6TRAC).....	15.09	4.83
Note: Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0313 EA 20AMP Duplex Receptacles (Wiremold 68REC)	35.20	7.23
Note: Two (2) proprietary 20AMP duplex power receptacles with mounting plates. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated ground device.		
26 05 33 16-0314 EA Device Mounting Plate (Wiremold 68B)	13.92	4.83
Note: Blank plate. Used to blank off either of the side compartments when no devices or cabling are to be used.		
26 05 33 16-0315 EA Device Mounting Plate (Wiremold 68MAAP)	14.24	4.83
Note: Device plate that will accept up to two (2) Extron® Electronics MAAP device plates. For use in either of the two side compartments only. Not for use in the center compartment. Extron Devices supplied by others.		
26 05 33 16-0316 EA 20AMP Duplex Receptacles (Wiremold 68REC-25)	107.01	8.69
Note: Two (2) proprietary 20AMP duplex power receptacles with mounting plates and 25' leads. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated		
26 05 33 16-0317 EA Device Mounting Plate (Wiremold 682A)	17.67	4.83
Note: Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.		
26 05 33 16-0318 EA Bottom Housing Assembly (Wiremold 5PTHA)	18.37	4.83
Note: Half-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use on side compartments only.		
26 05 33 16-0319 EA Bottom Housing Assembly (Wiremold 5BLH)	18.86	4.83
Note: Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. Includes tunnels for 6" and 8" poke-thru devices.		
26 05 33 16-0320 EA Bottom Housing Assembly (Wiremold 152CHA)	29.55	9.65
Note: One and a half-gang 2" trade size conduit housing assembly. Recommended for use with furniture feed devices (6ATCFF). Covers the center compartment and one of the side compartments.		
26 05 33 16-0321 EA Bottom Housing Assembly (Wiremold 575CHA)	34.12	12.06
Note: Half-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use on side compartments only.		
26 05 33 16-0322 EA Bottom Housing Assembly (Wiremold 175CHA)	37.31	12.06
Note: One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections.		
26 05 33 16-0323 EA Bottom Housing Assembly (Wiremold 1125CHA)	28.47	9.65
Note: One-gang 1 1/4" trade size conduit housing assembly.		
26 05 33 16-0324 EA Bottom Housing Assembly (Wiremold 1PTHA)	18.25	4.83
Note: One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required.		
26 05 33 16-0325 EA Bottom Housing Assembly (Wiremold 1BLH)	18.25	4.83
Note: One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required.		
26 05 33 16-0326 EA Bottom Housing Assembly (Wiremold 15FFHA)	19.16	4.83
Note: One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6AT Series units.		
26 05 33 16-0327 EA Bottom Housing Assembly (Wiremold 1BHA)	19.78	4.83
Note: One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTHA, and 1BLH plates.		
26 05 33 16-0328	Evolution 8AT Poke Thru Units <small>(26 05 33 16-0284)</small>	
Note: Excludes concrete drilling.		
26 05 33 16-0329 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 8ATCP)	801.68	38.60
Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0330 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8ATP)	763.50	38.60
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0331 EA Recessed Assembly With Surface Style Cover (Wiremold 8ATC)	756.32	38.60
Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0332 EA Recessed Assembly With Flush Style Cover (Wiremold 8AT)	749.51	38.60
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0333 EA Recessed Assembly With Disposable Plate (Wiremold 8STC)	456.07	36.19
Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.		
26 05 33 16-0334 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 8STCP)	509.85	36.19
Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.		
26 05 33 16-0335 EA 8" Pre-Pour Poke-Thru Sleeve (Wiremold 8PPS)	131.81	19.30
Note: Nonmetallic sleeve attaches to structural decking and maintains 8"-8 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.		
26 05 33 16-0336 EA Surface Style Cover Assembly (Wiremold 8CTC)	265.52	9.65
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies.		
26 05 33 16-0337 EA Flush Style Cover Assembly (Wiremold 8CT)	265.52	9.65
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies. Includes one (1) 8TS Tile Shim.		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0338 EA Tile Shim (Wiremold 8TS)..... Note: Used for floor coverings greater than 5/16". The 8TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" [9.5mm] of adjustment.	46.21	2.41
26 05 33 16-0339 EA Device Mounting Plate (Wiremold 8B)..... Note: Singlegang device plate used to blank off any one (1) of the three (3) gangs in the center compartment, when no devices are used.	16.08	4.83
26 05 33 16-0340 EA Device Mounting Plate (Wiremold 8DP)..... Note: Singlegang device plate that accepts standard 20A duplex receptacle or a duplex Turnlok receptacle. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	16.16	4.83
26 05 33 16-0341 EA Device Mounting Plate (Wiremold 8DEC)..... Note: Singlegang device plate that will accept Decorator style devices such as 20A receptacles, GGCI's, 106 adapters or AV devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	16.26	4.83
26 05 33 16-0342 EA Device Mounting Plate (Wiremold 8ACT6A)..... Note: Singlegang device plate that will accept up to six (6) ports of communication devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	18.64	4.83
26 05 33 16-0343 EA Mosaic Mounting Plate (Wiremold 8MOS)..... Note: Device plate accepts three (3) standard Mosaic devices. Devices supplied by others.	22.32	4.83
26 05 33 16-0344 EA Crestron Double Gang Plate (Wiremold 8CREST)..... Note: Device plate accepts Crestron double-gang decorator style devices.	22.28	4.83
26 05 33 16-0345 EA Device Mounting Plate (Wiremold 8S1)..... Note: Receptacle opening 1 3/8". For 8" poke-thru units only.	15.63	4.83
26 05 33 16-0346 EA Device Mounting Plate (Wiremold 8S2)..... Note: Receptacle opening 1 9/16". For 8" poke-thru units only.	15.81	4.83
26 05 33 16-0347 EA Device Mounting Plate (Wiremold 8TRAC)..... Note: Singlegang device plate that will accept up to six (6) Ortronics TracJack devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	15.63	4.83
26 05 33 16-0348 EA Device Mounting Plate (Wiremold 8SER)..... Note: Singlegang device plate that will accept up to three (3) Ortronics Series II dual modular inserts. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	15.63	4.83
26 05 33 16-0349 EA Device Mounting Plate (Wiremold 8MAAP)..... Note: Singlegang device plate that will accept up to four (4) Extron® Electronics MAAP style plates. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	21.99	4.83
26 05 33 16-0350 EA Device Mounting Plate (Wiremold 8AAP)..... Note: Twogang device plate that will accept up to four (4) Extron® Electronics AAP style plates. 8AAP takes up 2 of the 3 gangs in the center compartment. Devices supplied by others.	18.54	4.83
26 05 33 16-0351 EA 8" Divider (Wiremold 8DIV)..... Note: Divider allows for separation of services when required.	21.18	4.83
26 05 33 16-0352 EA Bottom Housing Assembly (Wiremold 22CHA)..... Note: Two-gang 2" trade size conduit housing assembly. Used on 8AT Series devices. Covers two (2) of the three (3) gangs in the center compartment. Only for use with 8AT Series units.	29.55	9.65

26 05 43 Underground Ducts And Raceways For Electrical Systems (26 05)

Note: Underground utilities and conduits include warning tape.

26 05 43 00-0001 Precast Concrete Trenches, One Piece Pedestrian Trench (26 05 43)
Note: Rated for 200 PSF Pedestrian Weight. Excludes excavation, removal of dirt and sand bedding.**26 05 43 00-0002 10" Wide Pedestrian Trench (26 05 43 00-0001)**

26 05 43 00-0003 LF Base, Solid Bottom 10" Wide x 15" Deep Pedestrian Trench	54.63
26 05 43 00-0004 LF Base, Open Bottom 10" Wide x 15" Deep Pedestrian Trench	52.48
26 05 43 00-0005 LF Base, Solid Bottom 10" Wide x 24" Deep Pedestrian Trench	75.87
26 05 43 00-0006 LF Base, Open Bottom 10" Wide x 24" Deep Pedestrian Trench	72.87
26 05 43 00-0007 EA End Wall, 10" Wide x 15" Deep Pedestrian Trench	38.66
26 05 43 00-0008 EA End Wall, 10" Wide x 24" Deep Pedestrian Trench	46.87
26 05 43 00-0009 LF Lid, Concrete, 10" Wide Pedestrian Trench.....	36.42

26 05 43 00-0010 20" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0011 LF Base, Solid Bottom 20" Wide x 15" Deep Pedestrian Trench	69.88
26 05 43 00-0012 LF Base, Open Bottom 20" Wide x 15" Deep Pedestrian Trench	66.06
26 05 43 00-0013 LF Base, Solid Bottom 20" Wide x 24" Deep Pedestrian Trench	95.31
26 05 43 00-0014 LF Base, Open Bottom 20" Wide x 24" Deep Pedestrian Trench	91.84
26 05 43 00-0015 EA End Wall, 20" Wide x 15" Deep Pedestrian Trench	49.08
26 05 43 00-0016 EA End Wall, 20" Wide x 24" Deep Pedestrian Trench	71.41
26 05 43 00-0017 LF Lid, Concrete, 20" Wide Pedestrian Trench.....	45.54

26 05 43 00-0018 30" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0019 LF Base, Solid Bottom 30" Wide x 15" Deep Pedestrian Trench	90.88
26 05 43 00-0020 LF Base, Open Bottom 30" Wide x 15" Deep Pedestrian Trench	104.86
26 05 43 00-0021 LF Base, Solid Bottom 30" Wide x 24" Deep Pedestrian Trench	113.35
26 05 43 00-0022 LF Base, Open Bottom 30" Wide x 24" Deep Pedestrian Trench	109.39
26 05 43 00-0023 EA End Wall, 30" Wide x 15" Deep Pedestrian Trench	70.92
26 05 43 00-0024 EA End Wall, 30" Wide x 24" Deep Pedestrian Trench	94.69
26 05 43 00-0025 LF Lid, Concrete, 30" Wide Pedestrian Trench.....	56.65

26 05 43 00-0026 40" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0027 LF Base, Solid Bottom 40" Wide x 15" Deep Pedestrian Trench	109.78
26 05 43 00-0028 LF Base, Open Bottom 40" Wide x 15" Deep Pedestrian Trench	106.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0029 LF Base, Solid Bottom 40" Wide x 24" Deep Pedestrian Trench	134.26	
26 05 43 00-0030 LF Base, Open Bottom 40" Wide x 24" Deep Pedestrian Trench	129.86	
26 05 43 00-0031 EA End Wall, 40" Wide x 15" Deep Pedestrian Trench	90.78	
26 05 43 00-0032 EA End Wall, 40" Wide x 24" Deep Pedestrian Trench	121.09	
26 05 43 00-0033 LF Lid, Concrete, 40" Wide Pedestrian Trench	67.32	
26 05 43 00-0034		
Precast Concrete Trenches, One Piece Medium Vehicle Trench <small>(26 05 43)</small>		
<small>Note: Rated for 7000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.</small>		
26 05 43 00-0035		
10" Wide Medium Vehicle Trench <small>(26 05 43 00-0034)</small>		
26 05 43 00-0036 LF Base, Solid Bottom 10" Wide x 15" Deep Medium Vehicle Trench	65.22	
26 05 43 00-0037 LF Base, Open Bottom 10" Wide x 15" Deep Medium Vehicle Trench	62.42	
26 05 43 00-0038 LF Base, Solid Bottom 10" Wide x 24" Deep Medium Vehicle Trench	90.55	
26 05 43 00-0039 LF Base Open Bottom 10" Wide x 24" Deep Medium Vehicle Trench	86.69	
26 05 43 00-0040 EA End Wall, 10" Wide x 15" Deep Medium Vehicle Trench	44.55	
26 05 43 00-0041 EA End Wall, 10" Wide x 24" Deep Medium Vehicle Trench	53.03	
26 05 43 00-0042 LF Lid, Concrete 10" Wide Medium Vehicle Trench	43.48	
26 05 43 00-0043 LF Lid, Galvanized Steel 10" Wide Medium Vehicle Trench	180.47	
26 05 43 00-0044		
20" Wide Medium Vehicle Trench <small>(26 05 43 00-0034)</small>		
26 05 43 00-0045 LF Base, Solid Bottom 20" Wide x 15" Deep Medium Vehicle Trench	82.80	
26 05 43 00-0046 LF Base, Open Bottom 20" Wide x 15" Deep Medium Vehicle Trench	77.88	
26 05 43 00-0047 LF Base, Solid Bottom 20" Wide x 24" Deep Medium Vehicle Trench	112.35	
26 05 43 00-0048 LF Base Open Bottom 20" Wide x 24" Deep Medium Vehicle Trench	107.86	
26 05 43 00-0049 EA End Wall, 20" Wide x 15" Deep Medium Vehicle Trench	55.89	
26 05 43 00-0050 EA End Wall, 20" Wide x 24" Deep Medium Vehicle Trench	81.43	
26 05 43 00-0051 LF Lid, Concrete 20" Wide Medium Vehicle Trench	54.37	
26 05 43 00-0052 LF Lid, Galvanized Steel 20" Wide Medium Vehicle Trench	239.13	
26 05 43 00-0053		
30" Wide Medium Vehicle Trench <small>(26 05 43 00-0034)</small>		
26 05 43 00-0054 LF Base, Solid Bottom 30" Wide x 15" Deep Medium Vehicle Trench	86.96	
26 05 43 00-0055 LF Base, Open Bottom 30" Wide x 15" Deep Medium Vehicle Trench	102.13	
26 05 43 00-0056 LF Base, Solid Bottom 30" Wide x 24" Deep Medium Vehicle Trench	132.74	
26 05 43 00-0057 LF Base Open Bottom 30" Wide x 24" Deep Medium Vehicle Trench	127.63	
26 05 43 00-0058 EA End Wall, 30" Wide x 15" Deep Medium Vehicle Trench	80.31	
26 05 43 00-0059 EA End Wall, 30" Wide x 24" Deep Medium Vehicle Trench	108.59	
26 05 43 00-0060 LF Lid, Concrete 30" Wide Medium Vehicle Trench	67.83	
26 05 43 00-0061 LF Lid, Galvanized Steel 30" Wide Medium Vehicle Trench	298.36	
26 05 43 00-0062		
40" Wide Medium Vehicle Trench <small>(26 05 43 00-0034)</small>		
26 05 43 00-0063 LF Base, Solid Bottom 40" Wide x 15" Deep Medium Vehicle Trench	127.41	
26 05 43 00-0064 LF Base, Open Bottom 40" Wide x 15" Deep Medium Vehicle Trench	122.76	
26 05 43 00-0065 LF Base, Solid Bottom 40" Wide x 24" Deep Medium Vehicle Trench	155.88	
26 05 43 00-0066 LF Base Open Bottom 40" Wide x 24" Deep Medium Vehicle Trench	150.18	
26 05 43 00-0067 EA End Wall, 40" Wide x 15" Deep Medium Vehicle Trench	102.81	
26 05 43 00-0068 EA End Wall, 40" Wide x 24" Deep Medium Vehicle Trench	138.84	
26 05 43 00-0069 LF Lid, Concrete 40" Wide Medium Vehicle Trench	80.24	
26 05 43 00-0070 LF Lid, Galvanized Steel 40" Wide Medium Vehicle Trench	405.22	
26 05 43 00-0071		
Precast Concrete Trenches, One Piece H20 Road Crossing Trench <small>(26 05 43)</small>		
<small>Note: H20 Rated for 32000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.</small>		
26 05 43 00-0072		
10" Wide H20 Road Crossing Trench <small>(26 05 43 00-0071)</small>		
26 05 43 00-0073 LF Base, Solid Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	135.02	
26 05 43 00-0074 LF Base, Open Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	128.75	
26 05 43 00-0075 LF Base, Solid Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	169.39	
26 05 43 00-0076 LF Base, Open Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	161.48	
26 05 43 00-0077 LF Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	129.86	
26 05 43 00-0078 LF Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	123.88	
26 05 43 00-0079 LF Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	164.22	
26 05 43 00-0080 LF Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	156.63	
26 05 43 00-0081 EA End Wall for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	91.07	
26 05 43 00-0082 EA End Wall for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	123.44	
26 05 43 00-0083 EA End Wall for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	82.87	
26 05 43 00-0084 EA End Wall for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	115.06	
26 05 43 00-0085 LF Lid, Concrete 10" Wide Road Crossing Trench	63.39	
26 05 43 00-0086 LF Lid, Galvanized Steel 10" Wide Road Crossing Trench	195.62	
26 05 43 00-0087		
20" Wide H20 Road Crossing Trench <small>(26 05 43 00-0071)</small>		
26 05 43 00-0088 LF Base, Solid Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	144.85	
26 05 43 00-0089 LF Base, Open Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	138.41	
26 05 43 00-0090 LF Base, Solid Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	192.49	
26 05 43 00-0091 LF Base, Open Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	183.88	
26 05 43 00-0092 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	144.85	
26 05 43 00-0093 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	138.41	

26 Electrical**26 05 Common Work Results For Electrical****26 05 43 Underground Ducts And Raceways For Electrical Systems**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 43 00-0094	LF	Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	187.32
26 05 43 00-0095	LF	Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	179.04
26 05 43 00-0096	EA	End Wall for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	129.86
26 05 43 00-0097	EA	End Wall for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	177.32
26 05 43 00-0098	EA	End Wall for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	117.92
26 05 43 00-0099	EA	End Wall for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	165.38
26 05 43 00-0100	LF	Lid, Concrete 20" Wide Road Crossing Trench.....	71.16
26 05 43 00-0101	LF	Lid, Galvanized Steel 20" Wide Road Crossing Trench.....	289.58
26 05 43 00-0102 30" Wide H20 Road Crossing Trench (26 05 43 00-0071)			
26 05 43 00-0103	LF	Base, Solid Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench.....	173.38
26 05 43 00-0104	LF	Base, Open Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench.....	166.02
26 05 43 00-0105	LF	Base, Solid Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench.....	214.17
26 05 43 00-0106	LF	Base, Open Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench.....	205.02
26 05 43 00-0107	LF	Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench.....	168.21
26 05 43 00-0108	LF	Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench.....	161.15
26 05 43 00-0109	LF	Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench.....	209.00
26 05 43 00-0110	LF	Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench.....	199.99
26 05 43 00-0111	EA	End Wall for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench.....	174.43
26 05 43 00-0112	EA	End Wall for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench.....	229.80
26 05 43 00-0113	EA	End Wall for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench.....	158.74
26 05 43 00-0114	EA	End Wall for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench.....	214.11
26 05 43 00-0115	LF	Lid, Concrete 30" Wide Road Crossing Trench.....	89.79
26 05 43 00-0116	LF	Lid, Galvanized Steel 30" Wide Road Crossing Trench.....	362.94
26 05 43 00-0117 40" Wide H20 Road Crossing Trench (26 05 43 00-0071)			
26 05 43 00-0118	LF	Base, Solid Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench.....	193.32
26 05 43 00-0119	LF	Base, Open Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench.....	185.41
26 05 43 00-0120	LF	Base, Solid Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench.....	237.82
26 05 43 00-0121	LF	Base, Open Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench.....	227.90
26 05 43 00-0122	LF	Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench.....	188.15
26 05 43 00-0123	LF	Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench.....	180.56
26 05 43 00-0124	LF	Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench.....	232.65
26 05 43 00-0125	LF	Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench.....	223.03
26 05 43 00-0126	EA	End Wall for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench.....	216.89
26 05 43 00-0127	EA	End Wall for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench.....	285.54
26 05 43 00-0128	EA	End Wall for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench.....	197.64
26 05 43 00-0129	EA	End Wall for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench.....	266.29
26 05 43 00-0130	LF	Lid, Concrete 40" Wide Road Crossing Trench.....	108.67
26 05 43 00-0131	LF	Lid, Galvanized Steel 40" Wide Road Crossing Trench.....	493.10
26 05 43 00-0132 Duct Bank (26 05 43)			
Note: Installation of single or multiple configuration underground utility raceways to have 3" concrete leveling base and encased in concrete envelope. Based on 100' run, minimum 30" bury depth. Labor units include material handling, unloading at job site, layout of job, measuring, cutting and fabrication, installation in trench using the appropriate supports, cleaning to remove any obstructions and installation of nylon pull string. Excludes trenching, concrete, backfilling, grading and seeding. Duct Banks are to be installed according to the appropriate sections of the accompanying specifications. Individual rows to be stacked for larger duct bank configurations.			
26 05 43 00-0133 Rigid Galvanized Steel Conduit, Galvanized Rigid Conduit (GRC) Or Rigid Galvanized Steel (RGS), Duct Bank (26 05 43 00-0132)			
Note: Includes appropriate spacers and fittings.			
26 05 43 00-0134	LF	2 At 2", Rigid Galvanized Conduit Duct Bank.....	23.62
26 05 43 00-0135	LF	4 At 2", Rigid Galvanized Conduit Duct Bank.....	47.28
26 05 43 00-0136	LF	2 At 3", Rigid Galvanized Conduit Duct Bank.....	48.26
26 05 43 00-0137	LF	4 At 3", Rigid Galvanized Conduit Duct Bank.....	96.78
26 05 43 00-0138	LF	2 At 4", Rigid Galvanized Conduit Duct Bank.....	70.95
26 05 43 00-0139	LF	4 At 4", Rigid Galvanized Conduit Duct Bank.....	142.78
26 05 43 00-0140	LF	6 At 4", Rigid Galvanized Conduit Duct Bank.....	214.94
26 05 43 00-0141	LF	2 At 5", Rigid Galvanized Conduit Duct Bank.....	130.39
26 05 43 00-0142	LF	4 At 5", Rigid Galvanized Conduit Duct Bank.....	259.89
26 05 43 00-0143	LF	6 At 5", Rigid Galvanized Conduit Duct Bank.....	401.24
26 05 43 00-0144	LF	2 At 6", Rigid Galvanized Conduit Duct Bank.....	185.59
26 05 43 00-0145	LF	4 At 6", Rigid Galvanized Conduit Duct Bank.....	372.47
26 05 43 00-0146	LF	6 At 6", Rigid Galvanized Conduit Duct Bank.....	553.39
26 05 43 00-0147 Polyvinyl Chloride (PVC), Type EB Duct Bank System (26 05 43 00-0132)			
Note: Includes appropriate spacers and fittings.			
26 05 43 00-0148	LF	1 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	6.27
26 05 43 00-0149	LF	2 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	13.77
26 05 43 00-0150	LF	4 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	26.43
26 05 43 00-0151	LF	1 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	8.31
26 05 43 00-0152	LF	2 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	16.57
26 05 43 00-0153	LF	4 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	33.67
26 05 43 00-0154	LF	1 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	11.11
26 05 43 00-0155	LF	2 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	22.23
26 05 43 00-0156	LF	4 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	44.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0157 LF 6 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	66.74	
26 05 43 00-0158 LF 1 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	14.06	
26 05 43 00-0159 LF 2 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	28.09	
26 05 43 00-0160 LF 4 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	54.40	
26 05 43 00-0161 LF 6 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	77.16	
26 05 43 00-0162 LF 1 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	24.92	
26 05 43 00-0163 LF 2 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	38.07	
26 05 43 00-0164 LF 4 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	76.30	
26 05 43 00-0165 LF 6 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	123.30	
26 05 43 00-0166 Polyvinyl Chloride (PVC), Type DB Duct Bank System <small>(26 05 43 00-0132)</small>		
<i>Note: Includes appropriate spacers and fittings.</i>		
26 05 43 00-0167 LF 1 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	6.96	
26 05 43 00-0168 LF 2 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	15.21	
26 05 43 00-0169 LF 4 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	29.13	
26 05 43 00-0170 LF 1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	8.63	
26 05 43 00-0171 LF 2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	17.23	
26 05 43 00-0172 LF 4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	34.34	
26 05 43 00-0173 LF 1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	11.38	
26 05 43 00-0174 LF 2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	22.78	
26 05 43 00-0175 LF 4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	45.60	
26 05 43 00-0176 LF 6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	68.37	
26 05 43 00-0177 LF 1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	14.47	
26 05 43 00-0178 LF 2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	28.91	
26 05 43 00-0179 LF 4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	56.04	
26 05 43 00-0180 LF 6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	79.63	
26 05 43 00-0181 LF 1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	25.49	
26 05 43 00-0182 LF 2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	39.25	
26 05 43 00-0183 LF 4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	78.66	
26 05 43 00-0184 LF 6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	126.84	
26 05 43 00-0185 Male Or Female Adapters <small>(26 05 43 00-0132)</small>		
26 05 43 00-0186 EA 2" Adapter	32.99	
26 05 43 00-0187 EA 3" Adapter	47.18	
26 05 43 00-0188 EA 4" Adapter	60.84	
26 05 43 00-0189 EA 5" Adapter	91.98	
26 05 43 00-0190 EA 6" Adapter	114.02	
26 05 46 Utility Poles for Electrical Systems <small>(26 05)</small>		
26 05 46 00-0001 Wood Poles <small>(26 05 46)</small>		
26 05 46 00-0002 Wood Pole, Class 3, Penta-Treated To 8 LB Retention <small>(26 05 46 00-0001)</small>		
<i>Note: Machine dig and set.</i>		
26 05 46 00-0003 EA 25' Treated Wood Pole, Class 3, Machine Dig And Set.....	710.11	250.22
<i>For Class 1 Pole, Add</i>	73.36	
<i>For Class 2 Pole, Add</i>	41.92	
<i>For Class 4 Pole, Deduct</i>	-20.96	
<i>For Class 5 Pole, Deduct</i>	-62.88	
<i>For Class 6 Pole, Deduct</i>	-83.84	
26 05 46 00-0004 EA 30' Treated Wood Pole, Class 3, Machine Dig And Set.....	839.84	277.61
<i>For Class 1 Pole, Add</i>	99.60	
<i>For Class 2 Pole, Add</i>	56.91	
<i>For Class 4 Pole, Deduct</i>	-28.46	
<i>For Class 5 Pole, Deduct</i>	-85.37	
<i>For Class 6 Pole, Deduct</i>	-113.83	
26 05 46 00-0005 EA 35' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,092.07	367.17
<i>For Class 1 Pole, Add</i>	125.24	
<i>For Class 2 Pole, Add</i>	71.57	
<i>For Class 4 Pole, Deduct</i>	-35.78	
<i>For Class 5 Pole, Deduct</i>	-107.35	
<i>For Class 6 Pole, Deduct</i>	-143.14	
26 05 46 00-0006 EA 40' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,242.19	403.85
<i>For Class 1 Pole, Add</i>	152.08	
<i>For Class 2 Pole, Add</i>	86.90	
<i>For Class 4 Pole, Deduct</i>	-43.45	
<i>For Class 5 Pole, Deduct</i>	-130.36	
<i>For Class 6 Pole, Deduct</i>	-173.81	
26 05 46 00-0007 EA 45' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,414.28	449.79
<i>For Class 1 Pole, Add</i>	180.11	
<i>For Class 2 Pole, Add</i>	102.92	
<i>For Class 4 Pole, Deduct</i>	-51.46	
<i>For Class 5 Pole, Deduct</i>	-154.38	
<i>For Class 6 Pole, Deduct</i>	-205.84	
26 05 46 00-0008 EA 50' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,605.97	504.80
<i>For Class 1 Pole, Add</i>	208.74	
<i>For Class 2 Pole, Add</i>	119.28	
<i>For Class 4 Pole, Deduct</i>	-59.64	
<i>For Class 5 Pole, Deduct</i>	-178.92	
<i>For Class 6 Pole, Deduct</i>	-238.56	

26 Electrical**26 05 Common Work Results For Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0009 EA 55' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,792.14	555.23
For Class 1 Pole, Add	238.56	
For Class 2 Pole, Add	136.32	
For Class 4 Pole, Deduct	-68.16	
For Class 5 Pole, Deduct	-204.48	
For Class 6 Pole, Deduct	-272.64	
26 05 46 00-0010 EA 60' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,998.24	610.56
For Class 1 Pole, Add	271.96	
For Class 2 Pole, Add	155.41	
For Class 4 Pole, Deduct	-77.70	
For Class 5 Pole, Deduct	-233.11	
For Class 6 Pole, Deduct	-310.81	
26 05 46 00-0011 EA 65' Treated Wood Pole, Class 3, Machine Dig And Set.....	3,121.38	665.47
For Class 1 Pole, Add	626.64	
For Class 2 Pole, Add	358.08	
For Class 4 Pole, Deduct	-179.04	
For Class 5 Pole, Deduct	-537.12	
For Class 6 Pole, Deduct	-716.16	
26 05 46 00-0012 EA 70' Treated Wood Pole, Class 3, Machine Dig And Set.....	3,417.44	707.90
For Class 1 Pole, Add	700.57	
For Class 2 Pole, Add	400.32	
For Class 4 Pole, Deduct	-200.16	
For Class 5 Pole, Deduct	-600.49	
For Class 6 Pole, Deduct	-800.65	
26 05 46 00-0013 EA 75' Treated Wood Pole, Class 3, Machine Dig And Set.....	3,746.64	756.09
For Class 1 Pole, Add	782.05	
For Class 2 Pole, Add	446.88	
For Class 4 Pole, Deduct	-223.44	
For Class 5 Pole, Deduct	-670.33	
For Class 6 Pole, Deduct	-893.77	
26 05 46 00-0014 Removal And Relocation Of Wood Poles With Cross Arm (26 05 46 00-0001)		
26 05 46 00-0015 LF Removal And Relocation Of Up To 75' Wood Pole With Cross Arms.....		21.32
26 05 46 00-0016 Crossarms (26 05 46) Note: Includes hardware and braces.		
26 05 46 00-0017 Wood Single Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0018 EA 3-1/2" x 4-1/2" x 5'-7", Single Arm Wood Crossarm, With Hardware And Braces.....	168.87	74.62
26 05 46 00-0019 EA 3-1/2" x 4-1/2" x 8'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	205.53	74.62
26 05 46 00-0020 EA 3-3/4" x 4-3/4" x 10'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	216.54	95.95
26 05 46 00-0021 Wood Double Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0022 EA 3-1/2" x 4-1/2" x 5'-7", Double Arm Wood Crossarm, With Hardware And Braces.....	439.77	207.90
26 05 46 00-0023 EA 3-1/2" x 4-1/2" x 8'-0", Double Arm Wood Crossarm, With Hardware And Braces.....	466.90	207.90
26 05 46 00-0024 EA 3-3/4" x 4-3/4" x 10'-0", Double Arm Wood Crossarm, With Hardware And Braces.....	487.45	207.90
26 05 46 00-0025 Fiberglass Crossarms (26 05 46 00-0016) Note: Includes hardware.		
26 05 46 00-0026 Single Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0027 EA Fiberglass Cutout And Arrestor Bracket, 18", Minimum Ultimate Load 800 LB.....	190.01	
26 05 46 00-0028 EA Fiberglass Insulator Bracket, 14", 11/16" Diameter Hole, Minimum Ultimate Load 1,200 LB.....	242.39	44.78
26 05 46 00-0029 EA Fiberglass Insulator Bracket, 14", 1" Lead Threaded, Minimum Ultimate Load 1,200 LB.....	253.05	47.98
26 05 46 00-0030 Two Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0031 EA Fiberglass Insulator Bracket, 36", Minimum Ultimate Load 1,200 LB.....	303.10	57.57
26 05 46 00-0032 Fiberglass Crossarm Accessories (26 05 46 00-0025)		
26 05 46 00-0033 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 7,000 LB Per Conductor.....	443.13	73.56
26 05 46 00-0034 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 12,000 LB Per Conductor.....	527.43	89.55
26 05 46 00-0035 EA Pole Top Pin, Hot Dip Galvanized, 18", 1" Lead Threaded.....	77.07	12.79
26 05 46 00-0036 EA Three Phase Equipment Mounting Bracket.....	385.33	63.97
26 05 46 00-0037 EA Fiberglass Bull Horn Crossarm.....	316.48	106.61
26 05 46 00-0038 Insulator Support System (26 05 46 00-0016)		
26 05 46 00-0039 Epoxy Construction Units, In Place Mounting (26 05 46 00-0038) Note: Includes hardware.		
26 05 46 00-0040 EA 1-1/2" Diameter x 19" Long Pole Side Pins Vertical (1 Arm Installed), In Place Mounting.....	95.21	
26 05 46 00-0041 EA 1-1/2" Diameter x 15" Long Pole Top Pins, In Place Mounting.....	75.06	
26 05 46 00-0042 EA Deadend Arms, In Place Mounting.....	194.34	
26 05 46 00-0043 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical (2 Arms Installed), In Place Mounting.....	147.35	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0044				Epoxy Construction Units, Grounding Mounting <small>(26 05 46 00-0038)</small> Note: Includes hardware.		
26 05 46 00-0045	EA			1-1/2" Diameter x 18" Long Pole Side Pins Vertical, Grounding Mounting	64.35	
26 05 46 00-0046	EA			1-1/2" Diameter x 15" Long Pole Top Pins, Grounding Mounting	54.50	
26 05 46 00-0047	EA			Deadend Arms, Grounding Mounting	173.78	
26 05 46 00-0048				Guying <small>(26 05 46)</small> Note: Includes cable, anchor and rod assembly, guy marker.		
26 05 46 00-0049				Down Guy <small>(26 05 46 00-0048)</small>		
26 05 46 00-0050	EA			Down Guy For 25' To 40' Pole	708.58	298.51
26 05 46 00-0051	EA			Down Guy For 45' To 60' Pole	719.32	298.51
26 05 46 00-0052	EA			Down Guy For 65' To 75' Pole	741.43	298.51
26 05 46 00-0053	EA			Guy Guard, Plastic	25.22	
26 05 46 00-0054				Head Guy, 50' Spans <small>(26 05 46 00-0048)</small>		
26 05 46 00-0055	EA			Head Guy (50' Span), For 25' To 40' Pole	1,035.52	458.43
26 05 46 00-0056	EA			Head Guy (50' Span), For 45' To 60' Pole	1,035.52	458.43
26 05 46 00-0057	EA			Head Guy (50' Span), For 65' To 75' Pole	1,035.52	458.43
26 05 46 00-0058				Guy Strain Insulators Additional Insulators <small>(26 05 46 00-0048)</small> Note: As required at same material cost and labor.		
26 05 46 00-0059	EA			Guy Strain Insulator	450.99	223.88
26 05 46 00-0060				Insulators <small>(26 05 46)</small>		
26 05 46 00-0061				Pin Insulator With Pin <small>(26 05 46 00-0060)</small>		
26 05 46 00-0062	EA			5 KV Class 55-3, Pin Insulator With Pin	145.93	63.97
26 05 46 00-0063	EA			15 KV Class 55-5, Pin Insulator With Pin	151.75	63.97
26 05 46 00-0064				Suspension Insulator <small>(26 05 46 00-0060)</small> Note: Includes clevis and strain clamp.		
26 05 46 00-0065	EA			5 KV Class 52-2, Suspension Insulator, With Clevis And Strain Clamp	187.77	85.29
26 05 46 00-0066	EA			15 KV Class 52-4, Suspension Insulator, With Clevis And Strain Clamp	203.59	85.29
26 05 46 00-0067	EA			25 KV Class 2 x 52-4, Suspension Insulator, With Clevis And Strain Clamp	290.48	106.61
26 05 46 00-0068	EA			50 KV Class 4 x 52-4, Suspension Insulator, With Clevis And Strain Clamp	466.93	170.58
26 05 46 00-0069				Spool Insulator With Clevis <small>(26 05 46 00-0060)</small>		
26 05 46 00-0070	EA			5 KV Class 53-5, Spool Insulator With Clevis	62.53	26.65
26 05 46 00-0071	EA			15 KV Class, Spool Insulator With Clevis	202.09	95.95
26 05 46 00-0072	EA			25 KV Class, Spool Insulator With Clevis	261.64	95.95
26 05 46 00-0073				Secondary Rack <small>(26 05 46 00-0060)</small>		
26 05 46 00-0074	EA			1 Spool Secondary Rack	123.91	53.31
26 05 46 00-0075	EA			2 Spool Secondary Rack	129.02	68.02
26 05 46 00-0076	EA			3 Spool Secondary Rack	192.98	90.62
26 05 46 00-0077	EA			4 Spool Secondary Rack	216.25	90.62
26 05 46 00-0078				Outdoor Load Break Switches <small>(26 05 46)</small> Note: 3-Phase, group operated, 3-insulator, vertical break, high strength pin insulators worm gear operating mechanism operating rods, mechanisms, and switch bases are galvanized steel.		
26 05 46 00-0079				7.2 KV Outdoor Load Break Switches <small>(26 05 46 00-0078)</small>		
26 05 46 00-0080	EA			600 Amp, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	5,204.99	362.47
26 05 46 00-0081	EA			1,200 Amp, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	10,453.81	362.47
26 05 46 00-0082	EA			1,600 Amp, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	15,594.37	613.02
26 05 46 00-0083	EA			2,000 Amp, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	15,814.81	613.02
26 05 46 00-0084				14.4 KV Outdoor Load Break Switches <small>(26 05 46 00-0078)</small>		
26 05 46 00-0085	EA			600 Amp, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	6,431.10	362.47
26 05 46 00-0086	EA			1,200 Amp, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,421.57	362.47
26 05 46 00-0087	EA			1,600 Amp, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	15,594.37	613.02
26 05 46 00-0088	EA			2,000 Amp, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	15,814.81	613.02
26 05 46 00-0089				23 KV Outdoor Load Break Switches <small>(26 05 46 00-0078)</small>		
26 05 46 00-0090	EA			600 Amp, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	7,071.03	421.11
26 05 46 00-0091	EA			1,200 Amp, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	13,575.00	421.11
26 05 46 00-0092	EA			1,600 Amp, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	16,213.20	724.96
26 05 46 00-0093	EA			2,000 Amp, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	16,440.88	724.96

26 Electrical**26 05 Common Work Results For Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0094 Square Distribution Poles (26 05 46)		
26 05 46 00-0095 Square Steel Tapered Shaft Distribution Poles (26 05 46 00-0094)		
26 05 46 00-0096 EA 20', Steel Taped Shaft Distribution Pole.....	2,403.61	453.10
26 05 46 00-0097 EA 25', Steel Taped Shaft Distribution Pole.....	2,689.09	479.76
26 05 46 00-0098 EA 30', Steel Taped Shaft Distribution Pole.....	2,922.16	533.05
26 05 46 00-0099 EA 35', Steel Taped Shaft Distribution Pole.....	3,231.96	586.36
26 05 46 00-0100 EA 40', Steel Taped Shaft Distribution Pole.....	4,324.20	639.66
26 05 46 00-0101 Square Prestressed Concrete Distribution Poles (26 05 46 00-0094)		
26 05 46 00-0102 EA 30', Prestressed Concrete Square Pole For Distribution.....	3,635.46	802.21
26 05 46 00-0103 EA 35', Prestressed Concrete Square Pole For Distribution.....	4,089.92	879.84
26 05 46 00-0104 EA 40', Prestressed Concrete Square Pole For Distribution.....	4,786.33	983.36
26 05 46 00-0105 EA 45', Prestressed Concrete Square Pole For Distribution.....	5,389.62	1,086.87
26 05 46 00-0106 EA 50', Prestressed Concrete Square Pole For Distribution.....	4,858.02	1,319.76
26 05 46 00-0107 EA 55', Prestressed Concrete Square Pole For Distribution.....	7,597.62	1,552.66
26 05 46 00-0108 EA 60', Prestressed Concrete Square Pole For Distribution.....	8,947.88	1,759.69
26 05 46 00-0109 EA 65', Prestressed Concrete Square Pole For Distribution.....	10,811.07	2,173.73
26 05 46 00-0110 EA 70', Prestressed Concrete Square Pole For Distribution.....	12,099.97	2,380.76
26 05 46 00-0111 Aluminum Tapered Poles (26 05 46)		
26 05 46 00-0112 Aluminum Tapered Round Seamless Shaft Poles (26 05 46 00-0111)		
26 05 46 00-0113 EA 20', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	2,310.87	399.79
26 05 46 00-0114 EA 25', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	3,194.70	426.45
26 05 46 00-0115 EA 30', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	3,670.54	479.76
26 05 46 00-0116 EA 35', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	4,341.60	533.05
26 05 46 00-0117 EA 40', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	6,496.39	586.36
26 05 46 00-0118 Steel Service Poles Distribution (26 05 46)		
Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.		
26 05 46 00-0119 Round Tapered Pole (26 05 46 00-0118)		
26 05 46 00-0120 EA 40', Galvanized Steel Tapered Round Pole For Distribution.....	3,272.96	639.66
26 05 46 00-0121 EA 45', Galvanized Steel Tapered Round Pole For Distribution.....	3,781.34	692.97
26 05 46 00-0122 EA 50', Galvanized Steel Tapered Round Pole For Distribution.....	4,032.23	746.28
26 05 46 00-0123 EA 55', Galvanized Steel Tapered Round Pole For Distribution.....	4,737.85	852.89
26 05 46 00-0124 EA 60', Galvanized Steel Tapered Round Pole For Distribution.....	5,819.31	959.50
26 05 46 00-0125 EA 65', Galvanized Steel Tapered Round Pole For Distribution.....	6,904.96	1,216.25
26 05 46 00-0126 EA 70', Galvanized Steel Tapered Round Pole For Distribution.....	7,698.25	1,379.80
26 05 46 00-0127 EA 75', Galvanized Steel Tapered Round Pole For Distribution.....	8,516.64	1,552.66
26 05 46 00-0128 EA 80', Galvanized Steel Tapered Round Pole For Distribution.....	9,571.35	1,759.69
26 05 46 00-0129 EA 85', Galvanized Steel Tapered Round Pole For Distribution.....	10,223.13	1,863.20
26 05 46 00-0130 EA 90', Galvanized Steel Tapered Round Pole For Distribution.....	11,116.56	2,070.22
26 05 46 00-0131 EA 95', Galvanized Steel Tapered Round Pole For Distribution.....	12,233.29	2,329.00
26 05 46 00-0132 EA 100', Galvanized Steel Tapered Round Pole For Distribution.....	13,542.42	2,639.53
26 05 46 00-0133 12 Sided Tapered (26 05 46 00-0118)		
26 05 46 00-0134 EA 40', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	5,409.77	639.66
26 05 46 00-0135 EA 45', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	5,964.46	692.97
26 05 46 00-0136 EA 50', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	6,596.52	746.28
26 05 46 00-0137 EA 55', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	7,261.67	852.89
26 05 46 00-0138 EA 60', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	9,579.06	959.50
26 05 46 00-0139 EA 65', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	10,687.84	1,216.25
26 05 46 00-0140 EA 70', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	12,370.52	1,379.80
26 05 46 00-0141 EA 75', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	13,336.17	1,552.66
26 05 46 00-0142 EA 80', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	14,384.83	1,759.69
26 05 46 00-0143 EA 85', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	15,241.95	1,863.20
26 05 46 00-0144 EA 90', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	17,287.53	2,070.22
26 05 46 00-0145 EA 95', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	18,386.96	2,329.00
26 05 46 00-0146 EA 100', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	19,736.49	2,639.53
26 05 46 00-0147 EA 105', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	21,172.84	2,950.06
26 05 46 00-0148 Standard Options For Round, 12 Sided and Octagonal Tapered Poles (26 05 46 00-0118)		
26 05 46 00-0149 EA Ladder Clips.....	26.07	
26 05 46 00-0150 EA Coal Tar Epoxy Coating From Base To 1' Above Ground Line.....	195.64	
26 05 46 00-0151 EA Ground Sleeve-2' At Ground Line.....	196.78	
26 05 46 00-0152 Arms With Baseplates And Endplates (26 05 46 00-0118)		
26 05 46 00-0153 EA 4' Arm With Baseplate And Endplate.....	525.81	106.61
26 05 46 00-0154 EA 5' Arm With Baseplate And Endplate.....	568.19	106.61
26 05 46 00-0155 EA 6' Arm With Baseplate And Endplate.....	718.01	159.92
26 05 46 00-0156 EA 7' Arm With Baseplate And Endplate.....	755.09	159.92
26 05 46 00-0157 EA 8' Arm With Baseplate And Endplate.....	903.29	213.22



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0158 EA 9' Arm With Baseplate And Endplate	945.65	213.22
26 05 46 00-0159 EA 10' Arm With Baseplate And Endplate	1,248.31	266.53
26 05 46 00-0160 EA 11' Arm With Baseplate And Endplate	1,295.87	266.53
26 05 46 00-0161 Standard Vangs Load Bearing At Any Angle <small>(26 05 46 00-0118)</small>		
26 05 46 00-0162 EA 15,000 LB Standard Vangs Load Bearing At Any Angle	248.18	106.61
26 05 46 00-0163 EA 30,000 LB Standard Vangs Load Bearing At Any Angle	274.14	106.61
26 05 46 00-0164 EA 45,000 LB Standard Vangs Load Bearing At Any Angle	309.65	106.61
26 05 46 00-0165 Armless Construction Brackets <small>(26 05 46 00-0118)</small>		
26 05 46 00-0166 Verticals Insulator And Equipment Bracket <small>(26 05 46 00-0165)</small>		
26 05 46 00-0167 EA 7" 1 Position Vertical Insulation And Equipment Bracket	252.41	106.61
26 05 46 00-0168 EA 12" 1 Position Vertical Insulation And Equipment Bracket	268.80	106.61
26 05 46 00-0169 EA 12" 3 Position Vertical Insulation And Equipment Bracket	295.44	106.61
26 05 46 00-0170 EA 18" 1 Position Vertical Insulation And Equipment Bracket	419.61	159.92
26 05 46 00-0171 EA 18" 3 Position Vertical Insulation And Equipment Bracket	435.16	159.92
26 05 46 00-0172 Horizontal And Multiple Insulator Brackets <small>(26 05 46 00-0165)</small>		
26 05 46 00-0173 EA Sidepole 1 7/8" Clearance Horizontal And Multiple Insulation Brackets	239.64	106.61
26 05 46 00-0174 EA Sidepole 2" Clearance Horizontal And Multiple Insulation Brackets	274.09	106.61
26 05 46 00-0175 EA Sidepole 9" Clearance Horizontal And Multiple Insulation Brackets	402.92	159.92
26 05 46 00-0176 EA Sidepole 10" Clearance Horizontal And Multiple Insulation Brackets	484.23	159.92
26 05 46 00-0177 EA Sidepole 15" Clearance Horizontal And Multiple Insulation Brackets	624.60	213.22
26 05 46 00-0178 EA Sidepole 20" Clearance Horizontal And Multiple Insulation Brackets	667.76	213.22
26 05 46 00-0179 Pole Top Bracket And Pins <small>(26 05 46 00-0165)</small>		
26 05 46 00-0180 EA Pole Top Pin - 5"	244.64	106.61
26 05 46 00-0181 EA Pole Top Bracket - 5"	253.01	106.61
26 05 46 00-0182 Angle Pins <small>(26 05 46 00-0165)</small>		
26 05 46 00-0183 EA Angle Pin - 25 Degree, 6"	243.51	106.61
26 05 46 00-0184 EA Angle Pin - 25 Degree, 7 1/4"	270.68	106.61
26 05 46 00-0185 Static And Neutral Wire Brackets <small>(26 05 46 00-0165)</small>		
26 05 46 00-0186 EA Neutral Wire Extension Bracket	253.38	106.61
26 05 46 00-0187 EA Static Wire Support Bracket	256.26	106.61
26 05 46 00-0188 Cutout, Arrestor And Terminator Brackets <small>(26 05 46 00-0165)</small>		
26 05 46 00-0189 EA Cutout And Arrestor, With Mounting Bracket	252.03	106.61
26 05 46 00-0190 EA Equipment Mounting T Bracket	277.43	106.61
26 05 46 00-0191 EA 15 KV Cutout	393.69	
26 05 46 00-0192 EA 9/10 KV Arrestor	357.96	106.61
26 05 46 00-0193 Spacer Cable, Conduit Support And Cluster Bracket <small>(26 05 46 00-0165)</small>		
26 05 46 00-0194 EA Parallel Cable Spacer	274.04	106.61
26 05 46 00-0195 EA Conduit Standoff Support Bracket	264.85	106.61
26 05 46 00-0196 EA Three Transformer Pole Mounted Cluster Bracket	583.51	106.61
26 05 46 00-0197 15 KV 200 Amp Solenoid Operated High Voltage Switch <small>(26 05 46 00-0165)</small>		
Note: Includes pole mounting bracket.		
26 05 46 00-0198 EA 15 KV, 1 Phase, Solenoid Switch With Pole Bracket	2,107.31	266.53
26 05 46 00-0199 Octagonal Tapered <small>(26 05 46 00-0118)</small>		
26 05 46 00-0200 EA 40', Galvanized Steel Tapered Octagonal Pole For Distribution	5,568.59	639.66
26 05 46 00-0201 EA 45', Galvanized Steel Tapered Octagonal Pole For Distribution	6,140.61	692.97
26 05 46 00-0202 EA 50', Galvanized Steel Tapered Octagonal Pole For Distribution	6,792.88	746.28
26 05 46 00-0203 EA 55', Galvanized Steel Tapered Octagonal Pole For Distribution	7,475.36	906.20
26 05 46 00-0204 EA 60', Galvanized Steel Tapered Octagonal Pole For Distribution	9,873.61	959.50
26 05 46 00-0205 EA 65', Galvanized Steel Tapered Octagonal Pole For Distribution	11,005.49	1,216.25
26 05 46 00-0206 EA 70', Galvanized Steel Tapered Octagonal Pole For Distribution	12,740.14	1,293.89
26 05 46 00-0207 EA 75', Galvanized Steel Tapered Octagonal Pole For Distribution	13,730.34	1,552.66
26 05 46 00-0208 EA 80', Galvanized Steel Tapered Octagonal Pole For Distribution	14,802.09	1,656.17
26 05 46 00-0209 EA 85', Galvanized Steel Tapered Octagonal Pole For Distribution	15,683.76	1,863.20
26 05 46 00-0210 EA 90', Galvanized Steel Tapered Octagonal Pole For Distribution	17,791.43	1,966.71
26 05 46 00-0211 EA 95', Galvanized Steel Tapered Octagonal Pole For Distribution	18,916.85	2,329.00
26 05 46 00-0212 EA 100', Galvanized Steel Tapered Octagonal Pole For Distribution	20,292.37	2,484.26
26 05 46 00-0213 EA 105', Galvanized Steel Tapered Octagonal Pole For Distribution	21,757.60	2,794.80

26 Electrical
26 05 Common Work Results For Electrical
26 05 46 Utility Poles for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0214 Removal And Relocation Of Steel Service Poles (26 05 46 00-0118)		
26 05 46 00-0215 LF Removal And Relocation Of Steel Service Poles With Arms Up To 60'	37.31	
26 05 46 00-0216 Special Steel Bases For Poles (26 05 46 00-0118)		
26 05 46 00-0217 EA Spin-In Steel Base For Poles.....	192.68	
26 05 46 00-0218 EA Series 3, 25' Pole And less	210.83	53.31
26 05 46 00-0219 EA Series 4, 40' Pole And less	249.99	61.31
26 05 46 00-0220 EA Series 5, 50' Pole And less	283.81	66.64
26 05 46 00-0221 Primary Fuse Cutouts (26 05 46)		
Note: Interrupting rating RMS, amperes - 25,000 symmetric and 40,000 asymmetric.		
26 05 46 00-0222 Non-Loadbreak Current Limiting Primary Fuse Cutouts (26 05 46 00-0221)		
Note: Includes the fuse and cut-out switch.		
26 05 46 00-0223 8.3 KV-95 KV-BIL Non-Loadbreak Current Limiting (26 05 46 00-0222)		
26 05 46 00-0224 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	588.27	266.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	127.94	
26 05 46 00-0225 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	694.87	266.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	159.92	
26 05 46 00-0226 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	801.13	266.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	191.79	
26 05 46 00-0227 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	816.59	266.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	191.91	
26 05 46 00-0228 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	816.59	266.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	191.91	
26 05 46 00-0229 17.1 KV-95 KV-BIL Non-Loadbreak Current Limiting (26 05 46 00-0222)		
26 05 46 00-0230 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Non-Loadbreak Current Limiting	588.27	213.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	127.94	
26 05 46 00-0231 17.1 KV-125 KV-BIL Non-Loadbreak Current Limiting (26 05 46 00-0222)		
26 05 46 00-0232 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Non-Loadbreak Current Limiting	608.68	213.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	127.94	
26 05 46 00-0233 Fuseholders (26 05 46 00-0222)		
Note: Including current limiting fuse.		
26 05 46 00-0234 EA 15 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	502.26	266.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	127.94	
26 05 46 00-0235 EA 25 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	608.86	266.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	159.92	
26 05 46 00-0236 EA 40 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	715.12	266.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	191.79	
26 05 46 00-0237 EA 100 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	509.32	266.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	127.94	
26 05 46 00-0238 EA 200 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	615.92	266.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	159.92	
26 05 46 00-0239 EA 15 A 17.1 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	502.26	213.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	127.94	
26 05 46 00-0240 Accessories (26 05 46 00-0222)		
26 05 46 00-0241 EA Hot Line Clamp	74.37	23.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.99	
26 05 46 00-0242 EA Stirrup	80.85	23.99
26 05 46 00-0243 Loadbreak Current Limiting Primary Fuse Cutouts (26 05 46 00-0221)		
Note: Includes fuse, cutout switch, crossarm mounting bracket and fuse holder.		
26 05 46 00-0244 8.3 KV-95 KV BIL Loadbreak Current Limiting (26 05 46 00-0243)		
26 05 46 00-0245 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting	747.18	266.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	127.94	
26 05 46 00-0246 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	853.78	266.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	159.92	
26 05 46 00-0247 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting	960.04	266.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	191.79	
26 05 46 00-0248 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	990.31	266.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	191.91	
26 05 46 00-0249 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	990.31	266.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	191.91	
26 05 46 00-0250 17.1 KV-95 KV BIL Loadbreak Current Limiting (26 05 46 00-0243)		
26 05 46 00-0251 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Loadbreak Current Limiting.....	747.18	213.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	127.94	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0252				17.1 KV-125 KV BIL Loadbreak Current Limiting (26 05 46 00-0243)		
26 05 46 00-0253	EA			15 A Primary Fuse Cutout 17.1 KV - 125 KV Loadbreak Current Limiting.....	747.18	213.22
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>127.94</i>	
26 05 46 00-0254				Fuseholders (26 05 46 00-0243)		
				Note: Includes current limiting fuses.		
26 05 46 00-0255	EA			15 Amp, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting.....	509.55	266.53
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>127.94</i>	
26 05 46 00-0256	EA			25 Amp, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting.....	616.15	266.53
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>159.92</i>	
26 05 46 00-0257	EA			40 Amp, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting.....	722.41	266.53
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>191.79</i>	
26 05 46 00-0258	EA			15 Amp, 17.1 KV Primary Fuseholder With Fuse Loadbreak Current Limiting.....	509.55	266.53
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>127.94</i>	
26 05 46 00-0259				Pole Mounted Capacitors (26 05 46 00-0243)		
26 05 46 00-0260	EA			Capacitors - Pole Mounted 6 KVAR.....	1,335.58	214.93
26 05 46 00-0261				Pole Structure Assemblies (26 05 46 00-0221)		
26 05 46 00-0262				5 KV Pole Structure Assemblies (26 05 46 00-0261)		
				Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0263	EA			Type OH-1, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	434.38	202.57
26 05 46 00-0264	EA			Type OH-2, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	726.03	341.16
26 05 46 00-0265	EA			Type OH-3, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	819.44	266.53
26 05 46 00-0266	EA			Type OH-4, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	466.90	138.59
26 05 46 00-0267	EA			Type OH-5, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	593.61	191.90
26 05 46 00-0268	EA			Type OH-6, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,041.42	383.80
26 05 46 00-0269	EA			Type OH-7, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	816.13	287.85
26 05 46 00-0270	EA			Type OH-8, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,495.37	575.70
26 05 46 00-0271	EA			Type OH-9, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,698.90	650.33
26 05 46 00-0272	EA			Type OH-10, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	926.03	319.84
26 05 46 00-0273	EA			Type OH-11, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	790.17	341.16
26 05 46 00-0274	EA			Type OH-12, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,487.57	692.97
26 05 46 00-0275	EA			Type OH-13, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,127.09	415.78
26 05 46 00-0276	EA			Type OH-14, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	706.00	298.51
26 05 46 00-0277	EA			Type OH-15, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,330.73	607.69
26 05 46 00-0278	EA			Type OH-16, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,039.19	309.17
26 05 46 00-0279				15 KV Pole Structure Assemblies (26 05 46 00-0261)		
				Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0280	EA			Type OH-1, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	454.79	202.57
26 05 46 00-0281	EA			Type OH-2, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	755.18	341.16
26 05 46 00-0282	EA			Type OH-3, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	918.57	266.53
26 05 46 00-0283	EA			Type OH-4, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	501.89	138.59
26 05 46 00-0284	EA			Type OH-5, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	643.17	181.24
26 05 46 00-0285	EA			Type OH-6, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,140.55	383.80
26 05 46 00-0286	EA			Type OH-7, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	889.02	287.85
26 05 46 00-0287	EA			Type OH-8, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,644.07	575.70
26 05 46 00-0288	EA			Type OH-9, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,900.09	650.33
26 05 46 00-0289	EA			Type OH-10, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,025.16	319.84
26 05 46 00-0290	EA			Type OH-11, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	828.08	341.16
26 05 46 00-0291	EA			Type OH-12, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,525.48	692.97
26 05 46 00-0292	EA			Type OH-13, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,202.90	415.78
26 05 46 00-0293	EA			Type OH-14, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	743.91	287.85
26 05 46 00-0294	EA			Type OH-15, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,368.64	607.69
26 05 46 00-0295	EA			Type OH-16, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,115.00	373.14
26 05 46 00-0296				25 KV Pole Structure Assemblies (26 05 46 00-0261)		
				Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0297	EA			Type OH-3, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,372.14	319.84
26 05 46 00-0298	EA			Type OH-4, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	838.28	159.92
26 05 46 00-0299	EA			Type OH-5, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,215.97	245.20
26 05 46 00-0300	EA			Type OH-6, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,608.95	501.07
26 05 46 00-0301	EA			Type OH-7, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,528.33	373.14
26 05 46 00-0302	EA			Type OH-8, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,474.41	735.62
26 05 46 00-0303	EA			Type OH-9, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,366.20	831.57
26 05 46 00-0304	EA			Type OH-13, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,655.60	485.09
26 05 46 00-0305	EA			Type OH-16, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,443.14	485.09
26 05 46 00-0306				50 KV Pole Structure Assemblies (26 05 46 00-0261)		
				Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0307	EA			Type OH-3, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,843.44	437.11
26 05 46 00-0308	EA			Type OH-4, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,002.18	223.88
26 05 46 00-0309	EA			Type OH-5, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,273.47	351.81

26 Electrical**26 05 Common Work Results For Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0310 EA Type OH-6, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,395.34	714.30
26 05 46 00-0311 EA Type OH-7, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,835.86	533.05
26 05 46 00-0312 EA Type OH-8, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,528.86	1,066.11
26 05 46 00-0313 EA Type OH-9, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	4,171.06	1,183.39
26 05 46 00-0314 EA Type OH-10, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,125.16	575.70
26 05 46 00-0315 EA Type OH-13, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,146.13	666.32
26 05 46 00-0316 EA Type OH-16, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,067.75	629.01
26 05 46 00-0317 Overhead To Underground Conversion Structures <small>(26 05 46 00-0221)</small> Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination and neutral wire brackets. Excludes pole.		
26 05 46 00-0318 5 KV Structures <small>(26 05 46 00-0317)</small> Note: Excludes pole.		
26 05 46 00-0319 EA (3 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	4,432.43	2,132.23
26 05 46 00-0320 EA (3 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	4,432.43	2,132.23
26 05 46 00-0321 EA (4 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	4,432.43	2,132.23
26 05 46 00-0322 EA (4 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	4,432.43	2,132.23
26 05 46 00-0323 15 KV Structures <small>(26 05 46 00-0317)</small> Note: Excludes pole.		
26 05 46 00-0324 EA (3 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	4,569.62	2,132.23
26 05 46 00-0325 EA (3 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	4,569.62	2,132.23
26 05 46 00-0326 EA (4 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	4,569.62	2,132.23
26 05 46 00-0327 EA (4 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	4,569.62	2,132.23
26 05 46 00-0328 25 KV Structures <small>(26 05 46 00-0317)</small> Note: Excludes pole.		
26 05 46 00-0329 EA (3 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	4,719.28	2,132.23
26 05 46 00-0330 EA (3 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	4,719.28	2,132.23
26 05 46 00-0331 EA (4 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	4,719.28	2,132.23
26 05 46 00-0332 EA (4 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	4,719.28	2,132.23
26 05 46 00-0333 Transformer Stations <small>(26 05 46 00-0221)</small> Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination, neutral wire brackets and transformer mounting bracket(s). Excludes pole and transformer.		
26 05 46 00-0334 5 KV Station <small>(26 05 46 00-0333)</small>		
26 05 46 00-0335 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole	6,110.32	2,842.26
26 05 46 00-0336 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 5 KV Transformer Station Without Pole.....	6,855.39	3,198.34
26 05 46 00-0337 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole	7,600.47	3,553.36
26 05 46 00-0338 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 5 KV Transformer Station Without Pole	7,600.47	3,553.36
26 05 46 00-0339 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 5 KV Transformer Station Without Pole	6,110.32	2,842.26
26 05 46 00-0340 15 KV Stations <small>(26 05 46 00-0333)</small>		
26 05 46 00-0341 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole.....	6,247.51	2,841.45
26 05 46 00-0342 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 15 KV Transformer Station Without Pole.....	6,992.58	3,198.34
26 05 46 00-0343 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole	7,737.67	3,553.36
26 05 46 00-0344 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 15 KV Transformer Station Without Pole	7,737.67	3,553.36
26 05 46 00-0345 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 15 KV Transformer Station Without Pole.....	6,247.51	2,842.26
26 05 46 00-0346 25 KV Stations <small>(26 05 46 00-0333)</small>		
26 05 46 00-0347 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole.....	6,397.17	2,842.26
26 05 46 00-0348 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 25 KV Transformer Station Without Pole.....	7,142.25	3,198.34
26 05 46 00-0349 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole	7,887.33	3,553.36
26 05 46 00-0350 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 25 KV Transformer Station Without Pole	7,887.33	3,553.36
26 05 46 00-0351 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 25 KV Transformer Station Without Pole.....	6,397.17	2,842.26

26 05 53 Identification for Electrical Systems (26 05)**26 05 53 00-0001 Conduit Markers Pressure-Sensitive** (26 05 53)

Note: Stick-on, includes arrow tape.

26 05 53 00-0002 EA 1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	10.30	
26 05 53 00-0003 EA 3/4" Outside Diameter Pressure Sensitive Marker Stick-on.....	10.79	
26 05 53 00-0004 EA 1" Outside Diameter Pressure Sensitive Marker Stick-on.....	11.75	
26 05 53 00-0005 EA 1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on.....	11.94	
26 05 53 00-0006 EA 1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	12.14	
26 05 53 00-0007 EA 2" Outside Diameter Pressure Sensitive Marker Stick-on.....	12.43	
26 05 53 00-0008 EA 2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	14.27	
26 05 53 00-0009 EA 3" Outside Diameter Pressure Sensitive Marker Stick-on.....	14.66	
26 05 53 00-0010 EA 3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	14.95	
26 05 53 00-0011 EA 4" Outside Diameter Pressure Sensitive Marker Stick-on.....	15.24	
26 05 53 00-0012 EA 4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	15.84	
26 05 53 00-0013 EA 5" Outside Diameter Pressure Sensitive Marker Stick-on.....	16.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 53 00-0014 EA 6" Outside Diameter Pressure Sensitive Marker Stick-on.....	17.06	
26 05 53 00-0015 EA 7" Outside Diameter Pressure Sensitive Marker Stick-on.....	17.63	
26 05 53 00-0016 EA 8" Outside Diameter Pressure Sensitive Marker Stick-on.....	19.17	
26 05 53 00-0017 EA 10" Outside Diameter Pressure Sensitive Marker Stick-on.....	20.23	
26 05 53 00-0018 Labeling Electrical Wires <small>(26 05 53)</small>		
26 05 53 00-0019 EA Labeling Wire.....	2.13	
26 05 83 Wiring Connections <small>(26 05 83)</small>		
26 05 83 00-0001 Tape Wrapped Compression Connectors <small>(26 05 83)</small>		
26 05 83 00-0002 EA #6 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	12.62	4.34
26 05 83 00-0003 EA #4 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	13.81	4.83
26 05 83 00-0004 EA #2 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	14.90	5.31
26 05 83 00-0005 EA 1/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	17.19	5.79
26 05 83 00-0006 EA 2/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	18.50	6.27
26 05 83 00-0007 EA 3/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	20.49	6.75
26 05 83 00-0008 EA 4/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	21.95	7.23
26 05 83 00-0009 EA 250 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	23.89	7.72
26 05 83 00-0010 EA 300 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	26.45	8.69
26 05 83 00-0011 EA 350 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	27.76	9.17
26 05 83 00-0012 EA 400 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	30.80	9.65
26 05 83 00-0013 EA 500 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	33.47	10.13
26 05 83 00-0014 EA 750 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	37.35	11.10
26 05 83 00-0015 EA 1,000 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	43.29	12.54
26 05 83 00-0016 One Hole Compression Lugs <small>(26 05 83)</small>		
26 05 83 00-0017 EA #22-18 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	16.59	12.54
26 05 83 00-0018 EA #16-14 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	16.70	12.54
26 05 83 00-0019 EA #12-10 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	18.89	13.51
26 05 83 00-0020 EA #8 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	23.33	14.96
26 05 83 00-0021 EA #6 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	32.79	19.30
26 05 83 00-0022 EA #4 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	38.43	19.30
26 05 83 00-0023 EA #2 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	44.22	19.30
26 05 83 00-0024 EA 1/0 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	54.49	28.95
26 05 83 00-0025 EA 2/0 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	63.88	28.95
26 05 83 00-0026 EA 3/0 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	74.76	28.95
26 05 83 00-0027 EA 4/0 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	90.15	38.60
26 05 83 00-0028 EA 250 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	106.92	57.90
26 05 83 00-0029 EA 300 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	122.31	57.90
26 05 83 00-0030 EA 350 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	131.47	57.90
26 05 83 00-0031 EA 400 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	143.15	67.55
26 05 83 00-0032 EA 500 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	156.49	67.55
26 05 83 00-0033 EA 750 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	170.09	77.20
26 05 83 00-0034 EA 1,000 MCM Compression Lugs, 1 Hole, Low Voltage, To 600 Volts.....	199.82	86.85
26 05 83 00-0035 Two Hole Compression Lugs <small>(26 05 83)</small>		
26 05 83 00-0036 EA #8 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	33.83	16.40
26 05 83 00-0037 EA #6 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	36.32	17.46
26 05 83 00-0038 EA #4 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	38.30	17.46
26 05 83 00-0039 EA #2 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	44.07	20.07
26 05 83 00-0040 EA 1/0 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	54.33	25.09
26 05 83 00-0041 EA 2/0 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	63.71	29.82
26 05 83 00-0042 EA 3/0 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	74.57	34.94
26 05 83 00-0043 EA 4/0 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	89.95	42.36
26 05 83 00-0044 EA 250 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	106.68	50.28
26 05 83 00-0045 EA 300 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	122.03	57.42
26 05 83 00-0046 EA 350 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	131.17	61.86
26 05 83 00-0047 EA 400 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	142.81	66.97
26 05 83 00-0048 EA 500 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	156.10	73.15
26 05 83 00-0049 EA 750 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	170.55	79.32
26 05 83 00-0050 EA 1,000 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	210.95	96.51
26 05 83 00-0051 Tape Wrapped Split Bolt Connectors <small>(26 05 83)</small>		
26 05 83 00-0052 EA #8 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	50.64	38.60
26 05 83 00-0053 EA #6 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	55.68	41.50
26 05 83 00-0054 EA #4 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	63.48	43.42
26 05 83 00-0055 EA #2 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	73.65	48.25
26 05 83 00-0056 EA 1/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	86.90	53.07
26 05 83 00-0057 EA 2/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	97.30	57.90
26 05 83 00-0058 EA 3/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	121.57	62.73
26 05 83 00-0059 EA 4/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	130.42	67.55
26 05 83 00-0060 EA 250 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	137.45	72.38
26 05 83 00-0061 EA 300 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	156.62	79.61
26 05 83 00-0062 EA 350 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	175.79	115.80

26 Electrical**26 05 Common Work Results For Electrical****26 05 83 Wiring Connections**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0063	EA		400 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	192.48	96.51
26 05 83 00-0064	EA		500 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	209.17	130.28
26 05 83 00-0065	EA		750 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	231.73	135.10
26 05 83 00-0066	EA		1,000 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	262.08	144.75
26 05 83 00-0067			Cable Termination Lugs Handwrapped, No Stress Cone <small>(26 05 83)</small>		
26 05 83 00-0068	EA		#8 Or #6 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts	69.22	38.60
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.27	
26 05 83 00-0069	EA		#4 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts	80.07	38.60
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.98	
26 05 83 00-0070	EA		1/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts	110.71	57.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.17	
26 05 83 00-0071	EA		4/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts	132.24	57.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.12	
26 05 83 00-0072	EA		300 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts	158.71	72.38
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.86	
26 05 83 00-0073	EA		500 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts	219.60	96.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.32	
26 05 83 00-0074			Terminal Blocks <small>(26 05 83)</small>		
			Note: Labor excludes wire termination.		
26 05 83 00-0075	EA		Power Distribution Block, 250 MCM 3 Phase Terminal Block, No Labor Wire Termination, 600 Volt.....	843.01	357.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	214.45	
26 05 83 00-0076	EA		#22 To #10 Wire Size, 12 Point, 600 Volt Terminal Block.....	213.08	48.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.27	
26 05 83 00-0077	EA		#8 To #2 Wire Size, 12 Point, 600 Volt Terminal Block.....	234.76	48.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.58	
26 05 83 00-0078			Parallel Gutter Tap Or Motor Connection <small>(26 05 83)</small>		
26 05 83 00-0079	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	33.83	17.46
26 05 83 00-0080	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	36.32	17.46
26 05 83 00-0081	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	38.30	17.46
26 05 83 00-0082	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	44.07	20.07
26 05 83 00-0083	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	54.33	25.09
26 05 83 00-0084	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	63.71	29.82
26 05 83 00-0085	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	74.58	34.94
26 05 83 00-0086	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	89.95	42.36
26 05 83 00-0087	EA		250 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	106.68	50.28
26 05 83 00-0088	EA		300 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	122.03	57.42
26 05 83 00-0089	EA		350 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	131.18	61.86
26 05 83 00-0090	EA		400 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	142.81	66.97
26 05 83 00-0091	EA		500 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	156.10	73.15
26 05 83 00-0092	EA		750 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	156.45	73.15
26 05 83 00-0093	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulating Cover	33.83	17.46
26 05 83 00-0094	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulating Cover	36.32	17.46
26 05 83 00-0095	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulating Cover	38.30	17.46
26 05 83 00-0096	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulating Cover	44.07	20.07
26 05 83 00-0097	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	54.33	25.09
26 05 83 00-0098	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	63.71	29.82
26 05 83 00-0099	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	74.58	34.94
26 05 83 00-0100	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	89.95	42.36
26 05 83 00-0101	EA		250 MCM Parallel Gutter Tap, Versitap, Insulating Cover	106.68	50.28
26 05 83 00-0102	EA		300 MCM Parallel Gutter Tap, Versitap, Insulating Cover	122.03	57.42
26 05 83 00-0103	EA		350 MCM Parallel Gutter Tap, Versitap, Insulating Cover	131.18	61.86
26 05 83 00-0104	EA		400 MCM Parallel Gutter Tap, Versitap, Insulating Cover	142.81	66.97
26 05 83 00-0105	EA		500 MCM Parallel Gutter Tap, Versitap, Insulating Cover	156.10	73.15
26 05 83 00-0106	EA		750 MCM Parallel Gutter Tap, Versitap, Insulating Cover	156.45	73.15
26 05 83 00-0107			Copper Mechanical Lugs <small>(26 05 83)</small>		
26 05 83 00-0108	EA		#8 Copper Mechanical Lugs	26.85	12.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.24	
26 05 83 00-0109	EA		#6 Copper Mechanical Lugs	32.25	14.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.74	
26 05 83 00-0110	EA		#4 Copper Mechanical Lugs	37.27	16.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.13	
26 05 83 00-0111	EA		#2 Copper Mechanical Lugs	48.59	21.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.92	
26 05 83 00-0112	EA		1/0 Copper Mechanical Lugs	65.42	28.95
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.37	
26 05 83 00-0113	EA		2/0 Copper Mechanical Lugs	77.70	33.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.18	
26 05 83 00-0114	EA		3/0 Copper Mechanical Lugs	90.61	38.60
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 05 83 00-0115	EA		4/0 Copper Mechanical Lugs	102.92	43.33
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.97	
26 05 83 00-0116	EA		250 MCM Copper Mechanical Lugs.....	117.40	48.25
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0117 EA 300 MCM Copper Mechanical Lugs.....	131.65	53.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.86	
26 05 83 00-0118 EA 350 MCM Copper Mechanical Lugs.....	145.84	57.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.74	
26 05 83 00-0119 EA 400 MCM Copper Mechanical Lugs.....	159.93	62.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.61	
26 05 83 00-0120 EA 500 MCM Copper Mechanical Lugs.....	174.26	67.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.53	
26 05 83 00-0121 EA 750 MCM Copper Mechanical Lugs.....	197.63	76.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.17	
26 05 83 00-0122 EA 1,000 MCM Copper Mechanical Lugs.....	223.65	86.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.11	
26 05 83 00-0123 Gel Connectors <small>(26 05 83)</small>		
26 05 83 00-0124 EA 3 Port, #14 to 2/0, Push On Gel Stub Splice Kit.....	40.12	
Note: Kit contains connector, gel filled cap and cap clamp.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.90	
26 05 83 00-0125 EA 4 Port, #14 to 2, Gel Tap Splice Kit.....	39.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.48	
26 05 83 00-0126 Other Connections <small>(26 05 83)</small>		
26 05 83 00-0127 EA #14 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	9.54	4.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.65	
26 05 83 00-0128 EA #12 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	9.62	4.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.65	
26 05 83 00-0129 EA #10 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	9.69	4.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.65	
26 05 83 00-0130 Motor/Equipment Connections And Terminations <small>(26 05 83)</small>		
Note: Includes rotation testing. If equipment rating is other than horsepower (KW, CFM, tons, Btu/Hr, etc.) convert units to horsepower and select proper circuit characteristics. Includes material conduit (6 LF max.), connectors and conductors. To connect electrical wiring to all new or existing equipment motors.		
26 05 83 00-0131 AC Single Phase, 230 Volt <small>(26 05 83 00-0130)</small>		
26 05 83 00-0132 EA <1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	64.91	24.13
26 05 83 00-0133 EA 1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	64.35	24.13
26 05 83 00-0134 EA 3/4 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	74.67	28.95
26 05 83 00-0135 EA 1 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	90.38	36.19
26 05 83 00-0136 EA 1-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	91.50	36.19
26 05 83 00-0137 EA 2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	91.73	36.19
26 05 83 00-0138 EA 3 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	95.42	36.19
26 05 83 00-0139 EA 5 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	119.99	48.25
26 05 83 00-0140 EA 7-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	124.13	48.25
26 05 83 00-0141 EA 10 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	157.53	60.32
26 05 83 00-0142 AC Three Phase, 230 Volt <small>(26 05 83 00-0130)</small>		
26 05 83 00-0143 EA 1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	64.35	24.13
26 05 83 00-0144 EA 3/4 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	74.67	28.95
26 05 83 00-0145 EA 1 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	90.38	36.19
26 05 83 00-0146 EA 1-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	91.50	36.19
26 05 83 00-0147 EA 2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	91.73	36.19
26 05 83 00-0148 EA 3 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	95.42	36.19
26 05 83 00-0149 EA 5 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	119.99	48.25
26 05 83 00-0150 EA 7-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	124.13	48.25
26 05 83 00-0151 EA 10 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	157.53	60.32
26 05 83 00-0152 EA 15 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	163.12	60.32
26 05 83 00-0153 EA 20 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	209.28	72.38
26 05 83 00-0154 EA 25 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	217.78	72.38
26 05 83 00-0155 EA 30 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	299.24	96.51
26 05 83 00-0156 EA 40 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	375.44	120.63
26 05 83 00-0157 EA 50 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	440.04	144.75
26 05 83 00-0158 EA 60 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	526.96	168.87
26 05 83 00-0159 EA 75 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	606.75	193.00
26 05 83 00-0160 EA 100 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	751.46	241.25
26 05 83 00-0161 EA 125 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	885.47	287.09
26 05 83 00-0162 EA 150 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,053.46	334.86
26 05 83 00-0163 EA 200 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,477.98	502.20
26 05 83 00-0164 AC Three Phase, 460 Volt <small>(26 05 83 00-0130)</small>		
26 05 83 00-0165 EA 1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	64.35	24.13
26 05 83 00-0166 EA 3/4 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	74.67	28.95
26 05 83 00-0167 EA 1 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	90.38	36.19
26 05 83 00-0168 EA 1-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	91.50	36.19
26 05 83 00-0169 EA 2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	91.73	36.19
26 05 83 00-0170 EA 3 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	95.42	36.19
26 05 83 00-0171 EA 5 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	119.99	48.25
26 05 83 00-0172 EA 7-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	124.13	48.25

26 Electrical

26 05 Common Work Results For Electrical

26 05 83 Wiring Connections



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0173 EA 10 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	157.53	60.32
26 05 83 00-0174 EA 15 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	163.12	60.32
26 05 83 00-0175 EA 20 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	209.29	72.38
26 05 83 00-0176 EA 25 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	217.77	72.38
26 05 83 00-0177 EA 30 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	299.24	96.51
26 05 83 00-0178 EA 40 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	375.73	120.82
26 05 83 00-0179 EA 50 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	440.04	144.75
26 05 83 00-0180 EA 60 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	526.96	168.87
26 05 83 00-0181 EA 75 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	606.75	193.00
26 05 83 00-0182 EA 100 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	751.46	241.25
26 05 83 00-0183 EA 125 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	885.74	287.19
26 05 83 00-0184 EA 150 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,053.83	335.05
26 05 83 00-0185 EA 200 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,478.81	502.58
26 05 83 00-0186 AC Single Phase, 120 Volt (26 05 83 00-0130)		
26 05 83 00-0187 EA 1/2 HP AC And Less Single Phase, 120 Volt Motor/Equipment, Connection, Termination And Rotation Testing	64.91	24.13
26 05 83 00-0188 Motor Moisture Sensor (26 05 83 00-0130)		
26 05 83 00-0189 EA Motor Moisture Sensor Located In Winding.....	593.94	
26 09 Instrumentation and Control for Electrical Systems (26)		
Note: Includes testing of new devices and certification.		
26 09 23 Lighting Control Devices (26 09)		
26 09 23 00-0001 Lighting Contactors (26 09 23)		
Note: Up to 600 volt.		
26 09 23 00-0002 Electrically Held, Lighting Contactors (26 09 23 00-0001)		
26 09 23 00-0003 NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0004 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0005 EA 20 Amp, 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	333.18	77.20
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	46.32	
26 09 23 00-0006 EA 30 Amp, 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	407.49	86.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	52.11	
26 09 23 00-0007 EA 60 Amp, 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	749.08	135.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	81.06	
26 09 23 00-0008 EA 100 Amp, 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,153.02	183.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	110.01	
26 09 23 00-0009 EA 200 Amp, 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,331.67	241.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	144.75	
26 09 23 00-0010 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0011 EA 20 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	376.09	86.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	52.11	
26 09 23 00-0012 EA 30 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	447.41	96.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	57.90	
26 09 23 00-0013 EA 60 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	815.17	154.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	92.64	
26 09 23 00-0014 EA 100 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,247.63	202.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	121.59	
26 09 23 00-0015 EA 200 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,506.15	265.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	159.23	
26 09 23 00-0016 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0017 EA 20 Amp, 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	439.94	96.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	57.90	
26 09 23 00-0018 EA 30 Amp, 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	523.21	106.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	63.69	
26 09 23 00-0019 EA 60 Amp, 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	979.51	173.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	104.22	
26 09 23 00-0020 EA 100 Amp, 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,482.18	221.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	133.17	
26 09 23 00-0021 EA 200 Amp, 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	3,174.72	289.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	173.70	
26 09 23 00-0022 NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0023 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0024 EA 20 Amp, 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	523.21	77.20
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	46.32	
26 09 23 00-0025 EA 30 Amp, 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	659.44	86.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	52.11	
26 09 23 00-0026 EA 60 Amp, 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,251.52	135.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	81.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0027 EA 100 Amp, 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,866.66	183.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.01	
26 09 23 00-0028 EA 200 Amp, 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	3,549.72	241.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	144.75	
26 09 23 00-0029 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0030 EA 20 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor	546.26	86.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.11	
26 09 23 00-0031 EA 30 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor	699.37	96.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.90	
26 09 23 00-0032 EA 60 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor	1,319.09	154.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.64	
26 09 23 00-0033 EA 100 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,960.77	202.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.59	
26 09 23 00-0034 EA 200 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	3,723.70	265.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	159.23	
26 09 23 00-0035 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0036 EA 20 Amp, 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor	591.87	96.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.90	
26 09 23 00-0037 EA 30 Amp, 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor	775.16	106.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.69	
26 09 23 00-0038 EA 60 Amp, 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor	1,679.40	173.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104.22	
26 09 23 00-0039 EA 100 Amp, 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	2,391.29	221.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.17	
26 09 23 00-0040 EA 200 Amp, 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	4,932.53	289.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	173.70	
26 09 23 00-0041 Mechanically Held, Lighting Contactors (26 09 23 00-0001)		
26 09 23 00-0042 NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0041)		
26 09 23 00-0043 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)		
26 09 23 00-0044 EA 20 Amp, 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	471.68	77.20
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.32	
26 09 23 00-0045 EA 30 Amp, 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	536.17	86.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.11	
26 09 23 00-0046 EA 60 Amp, 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	999.56	135.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.06	
26 09 23 00-0047 EA 100 Amp, 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	1,390.25	183.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.01	
26 09 23 00-0048 EA 200 Amp, 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	3,101.79	241.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	144.75	
26 09 23 00-0049 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)		
26 09 23 00-0050 EA 20 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	506.54	86.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.11	
26 09 23 00-0051 EA 30 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	577.08	96.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.90	
26 09 23 00-0052 EA 60 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	1,067.13	154.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.64	
26 09 23 00-0053 EA 100 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	1,485.34	202.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.59	
26 09 23 00-0054 EA 200 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	3,485.00	265.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	159.23	
26 09 23 00-0055 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)		
26 09 23 00-0056 EA 20 Amp, 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	548.38	96.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.90	
26 09 23 00-0057 EA 30 Amp, 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	617.01	106.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.69	
26 09 23 00-0058 EA 60 Amp, 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	1,244.73	173.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104.22	
26 09 23 00-0059 EA 100 Amp, 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	1,734.14	221.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.17	
26 09 23 00-0060 EA 200 Amp, 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	4,190.41	289.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	173.70	
26 09 23 00-0061 NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0041)		
26 09 23 00-0062 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		
26 09 23 00-0063 EA 20 Amp, 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	685.88	77.20
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.32	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0064 EA 30 Amp, 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	788.12	86.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.11	
26 09 23 00-0065 EA 60 Amp, 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	1,503.48	135.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.06	
26 09 23 00-0066 EA 100 Amp, 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	2,103.88	183.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.01	
26 09 23 00-0067 EA 200 Amp, 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	4,318.85	241.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	144.75	
26 09 23 00-0068 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		
26 09 23 00-0069 EA 20 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	727.71	86.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.11	
26 09 23 00-0070 EA 30 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	829.03	96.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.90	
26 09 23 00-0071 EA 60 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	1,571.05	154.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.64	
26 09 23 00-0072 EA 100 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	2,199.47	202.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.59	
26 09 23 00-0073 EA 200 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	4,703.05	265.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	159.23	
26 09 23 00-0074 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		
26 09 23 00-0075 EA 20 Amp, 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	772.24	96.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.90	
26 09 23 00-0076 EA 30 Amp, 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	868.97	106.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.69	
26 09 23 00-0077 EA 60 Amp, 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	1,944.62	173.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104.22	
26 09 23 00-0078 EA 100 Amp, 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	2,643.25	221.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.17	
26 09 23 00-0079 EA 200 Amp, 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	5,912.36	289.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	173.70	
26 09 23 00-0080 Combination Lighting Contactors (26 09 23)		
Note: Up to 600 volt.		
26 09 23 00-0081 Electrically Held, Combination Lighting Contactors (26 09 23 00-0080)		
26 09 23 00-0082 NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0081)		
26 09 23 00-0083 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0082)		
26 09 23 00-0084 EA 30 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	886.41	106.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.69	
26 09 23 00-0085 EA 60 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	1,391.71	169.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.90	
26 09 23 00-0086 EA 100 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	2,218.39	222.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.75	
26 09 23 00-0087 EA 200 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	3,985.26	291.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	175.15	
26 09 23 00-0088 NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0081)		
26 09 23 00-0089 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0088)		
26 09 23 00-0090 EA 30 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	1,557.56	106.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.69	
26 09 23 00-0091 EA 60 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	2,426.07	169.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.90	
26 09 23 00-0092 EA 100 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	4,023.35	222.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.75	
26 09 23 00-0093 EA 200 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	6,294.14	291.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	175.15	
26 09 23 00-0094 Mechanically Held, Combination Lighting Contactors (26 09 23 00-0080)		
26 09 23 00-0095 NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0094)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0096 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors <small>(26 09 23 00-0095)</small>		
26 09 23 00-0097 EA 30 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	963.03	106.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.69	
26 09 23 00-0098 EA 60 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	1,656.93	169.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.90	
26 09 23 00-0099 EA 100 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	2,469.61	222.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.75	
26 09 23 00-0100 EA 200 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	4,699.14	291.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	175.15	
26 09 23 00-0101 NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors <small>(26 09 23 00-0094)</small>		
26 09 23 00-0102 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors <small>(26 09 23 00-0101)</small>		
26 09 23 00-0103 EA 30 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	1,634.91	106.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.69	
26 09 23 00-0104 EA 60 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	2,692.76	169.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.90	
26 09 23 00-0105 EA 100 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	4,275.31	222.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.75	
26 09 23 00-0106 EA 200 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	7,008.02	291.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	175.15	
26 09 23 00-0107 Photo-Cell, Relay, Lighting Arrester, Receptacle And Bracket <small>(26 09 23)</small>		
26 09 23 00-0108 EA Photo-Cell, 105-130 Volt Relay, Lighting Arrester, Receptacle And Bracket.....	117.58	25.09
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.08	
26 09 23 00-0109 EA Photo-Cell, 105-285 Volt Relay, Lighting Arrester, Receptacle And Bracket.....	128.74	25.09
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.08	
26 09 23 00-0110 Dimming Module System (Lutron Grafik Eye) <small>(26 09 23)</small>		
26 09 23 00-0111 EA 2,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-2).....	1,022.77	96.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.90	
26 09 23 00-0112 EA 4,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-4).....	1,304.59	96.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.90	
26 09 23 00-0113 EA 6,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-6).....	1,591.43	96.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.90	
26 09 23 00-0114 Dimming Module Contol (Leviton) <small>(26 09 23)</small>		
26 09 23 00-0115 EA 5 Amp Wireless Dimming Module (Leviton WSD05-9D0).....	132.12	12.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.25	
26 09 23 00-0116 Light Control Panels <small>(26 09 23)</small>		
26 09 23 00-0117 Lighting Control Panels (Watt Stopper) <small>(26 09 23 00-0116)</small>		
26 09 23 00-0118 Lighting Control Panels (Watt Stopper) <small>(26 09 23 00-0117)</small>		
26 09 23 00-0119 EA 4 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-4).....	1,418.04	135.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.18	
26 09 23 00-0120 EA 8 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-8).....	1,332.99	144.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.98	
26 09 23 00-0121 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8S-8-G).....	1,496.05	144.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.98	
26 09 23 00-0122 EA 8 Relays, Surface Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24S-8).....	2,225.77	144.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.98	
26 09 23 00-0123 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24S-8-G).....	2,417.21	144.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.98	
26 09 23 00-0124 EA 4 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-4).....	1,574.86	135.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.18	
26 09 23 00-0125 EA 8 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-8).....	1,689.82	144.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.98	
26 09 23 00-0126 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8F-8-G).....	1,881.07	144.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.98	
26 09 23 00-0127 EA 8 Relays, Flush Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24F-8).....	2,302.28	144.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.98	
26 09 23 00-0128 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24F-8-G).....	2,493.71	144.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.98	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0129 Accessories For Lighting Control Panels (Watt Stopper) <small>(26 09 23 00-0117)</small>		
26 09 23 00-0130 EA Low Voltage Photocell For Watt Stopper Lighting Control Panels (Watt Stopper EM-24A2) 139.23	139.23	24.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>14.50</i>	
26 09 23 00-0131 EA Automatic Control Switch For Watt Stopper Lighting Control Panels (Watt Stopper AS-100-W) 107.28	107.28	19.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>11.60</i>	
26 09 23 00-0132 EA Low Voltage Momentary Switch For Watt Stopper Lighting Control Panels (Watt Stopper DCC2) 58.09	58.09	19.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>11.60</i>	
26 09 23 00-0133 Lighting Control Panels (Synergy) <small>(26 09 23 00-0116)</small>		
26 09 23 00-0134 Lighting Control Panels (Synergy) <small>(26 09 23 00-0133)</small>		
26 09 23 00-0135 EA 8 Relays, Surface Mount, Lighting Control Panel (Synergy SwitchPak SPAK 8S) 1,618.14	1,618.14	144.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>86.98</i>	
26 09 23 00-0136 Accessories For Lighting Control Panels (Synergy) <small>(26 09 23 00-0133)</small>		
26 09 23 00-0137 EA Outdoor Photocell For Synergy SwitchPak Lighting Control Panels (Synergy LSA-APS-OL) 390.06	390.06	24.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>14.50</i>	
26 09 23 00-0138 EA Sweepswitch, Line Voltage Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy SSPL-20) 151.26	151.26	9.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>5.80</i>	
26 09 23 00-0139 EA Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy LVPS-2BT) 91.08	91.08	14.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>8.70</i>	
26 09 23 00-0140 Lighting Switching Panels (Lutron) <small>(26 09 23 00-0116)</small>		
26 09 23 00-0141 Lighting Switching Panels (Lutron) <small>(26 09 23 00-0140)</small>		
26 09 23 00-0142 EA 8 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS8-FT) 1,332.92	1,332.92	144.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>86.98</i>	
26 09 23 00-0143 EA 12 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS12-FT) 1,801.11	1,801.11	154.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>92.77</i>	
26 09 23 00-0144 EA 16 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS16-FT) 2,335.69	2,335.69	164.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>98.57</i>	
26 09 23 00-0145 Wireless (ZigBee) LED Lighting Control Panels (PlanLED GigaTera) <small>(26 09 23 00-0116)</small>		
26 09 23 00-0146 EA 6 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC6Z) 914.62	914.62	135.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>81.18</i>	
26 09 23 00-0147 EA 12 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC12Z) 1,031.71	1,031.71	135.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>81.18</i>	
26 09 23 00-0148 EA 18 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC18Z) 1,148.81	1,148.81	135.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>81.18</i>	
26 09 23 00-0149 Power Filters <small>(26 09 23 00-0116)</small>		
26 09 23 00-0150 EA 600 Amp 480/277 Volt, 4 Conductor Power Filter With 80" X 60" X 17" Enclosure 35,012.24	35,012.24	804.15
26 09 23 00-0151 EA 200 Amp 480/277 Volt, 4 Conductor Power Filter With 25" X 40" X 17" Enclosure 20,741.61	20,741.61	349.62
26 09 23 00-0152 Signal Filters <small>(26 09 23 00-0116)</small>		
26 09 23 00-0153 EA 0.5 Amp 125 V 500 Conductor Signal Filter With 19" X 36-3/4" X 19-1/8 Case 15,937.16	15,937.16	731.10
26 09 23 00-0154 EA 0.5 Amp 125 V 200 Conductor Signal Filter With 29" X 40" X 11" Case 10,914.70	10,914.70	446.80
26 09 23 00-0155 EA 0.5 Amp 125 V 3 Pair Conductor Signal Filter With 12" X 12" X 4" Case 6,086.14	6,086.14	259.40
26 09 23 00-0156 EA 5 Amp 24 V DC 5 V 2 - 1 Pair Conductor Signal Filter With Case 8,313.07	8,313.07	259.40
26 09 23 00-0157 Lighting Control Devices (Encelium) <small>(26 09 23)</small>		
26 09 23 00-0158 EA 8 Port, G4, Wired Energy Control Unit, GreenBus II™ (120V) With Polaris 3D™ (Encelium EN-ECU-G4-P3D) 8,924.21	8,924.21	96.64
Note: Excludes GB II cable.		
26 09 23 00-0159 EA Server, System Support Unit (SSU) (Encelium EN-SSU-1U) 4,110.03	4,110.03	96.64
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0160 EA Server, System Support Unit (SSU), VIRTUAL (Encelium EN-SW-SSUVIRT) 2,165.81	2,165.81	96.64
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0161 EA Server, System Support Unit (SSU) With BACnet (Encelium EN-SSU-BIF-KIT) 8,976.37	8,976.37	96.64
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0162 EA Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK) 77.12	77.12	12.08
Note: Excludes GB II cable.		
26 09 23 00-0163 EA Damp Rated, Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK/DR) 115.64	115.64	12.08
Note: Excludes GB II cable.		
26 09 23 00-0164 EA Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK) 150.68	150.68	24.16
Note: Excludes GB II cable.		
26 09 23 00-0165 EA Damp Rated, Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK-DR) 179.00	179.00	24.16
Note: Excludes GB II cable.		
26 09 23 00-0166 EA Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK) 101.28	101.28	24.16
Note: Excludes GB II cable.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0167 EA Damp Rated, Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK/DR).....	139.80	24.16
Note: Excludes GB II cable.		
26 09 23 00-0168 EA 16 Port, Rack Mounted, Wired Ethernet Switch (Encelium ETH-700)	344.93	48.32
Note: Excludes cable.		
26 09 23 00-0169 EA Rack Mounted, Wired Power Bar (Encelium PWR-700)	265.79	48.32
26 09 23 00-0170 EA Rack Mounted, Wired Power Bar With Surge Protection (Encelium PWR-800)	464.72	48.32
26 09 23 00-0171 EA Wall Mounted, 4U Mounting Rack (Encelium RCK-700).....	176.37	48.32
26 09 23 00-0172 EA 4 Port, 10/100 VPN, Dual WAN, Wired Router (Encelium RV042)	517.72	48.32
Note: Excludes cable.		
26 09 23 00-0173 EA Wired BACnet Interface (Encelium BIF-600)	5,252.89	193.28
Note: Excludes cable.		
26 09 23 00-0174 EA Wired AV Interface (Encelium EN-SW-AVINT).....	3,835.52	48.32
Note: Excludes cable.		
26 09 23 00-0175 EA Two Button, GB2, Wired Wall Station (Encelium EN-WS-2B-GB2-WH).....	149.40	12.08
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0176 EA 3 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC3-GB2-WH)	180.69	12.08
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0177 EA 3 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WH).....	173.14	12.08
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0178 EA 5 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC5-GB2-WH)	180.69	12.08
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0179 EA 6 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC6-GB2-WH).....	173.14	12.08
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0180 EA Rocker Switch, GB2, Wired Wall Station (Encelium EN-WS-R-GB2-WT)	132.48	12.08
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0181 EA Scene Controller, GB2, Wired Wall Station (Encelium EN-WS-SC3D-GB2-WT).....	180.69	12.08
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0182 EA 3 Zone Controller, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WT).....	173.14	12.08
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0183 EA Wired Key Switch Controller (Encelium KSW-300).....	129.43	12.08
Note: Excludes GB II cable.		
26 09 23 00-0184 EA Wall Station Surface Mount Kit (Encelium EN-SMK-ZB-WH)	59.01	12.08
Note: Includes white finish.		
26 09 23 00-0185 EA 1/2' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-0.5FT-GB2)	56.24	24.16
26 09 23 00-0186 EA 1' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-01FT-GB2)	56.57	24.16
26 09 23 00-0187 EA 5' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-05FT-GB2)	59.24	24.16
26 09 23 00-0188 EA 10' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-10FT-GB2)	61.87	24.16
26 09 23 00-0189 EA 15' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-15FT-GB2)	65.01	24.16
26 09 23 00-0190 EA 20' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-20FT-GB2)	67.85	24.16
26 09 23 00-0191 EA 25' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-25FT-GB2)	71.33	24.16
26 09 23 00-0192 EA 50' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-50FT-GB2)	87.06	24.16
26 09 23 00-0193 EA 1,000' Box, GreenBus II™ Cable (Encelium EN-BC-1000FT-GB2)	484.81	24.16
26 09 23 00-0194 EA Box Of 50, Greenbus II™ Connectors (Encelium EN-CON-50-GB2).....	128.18	24.16
26 09 23 00-0195 EA 1,000' Box, Category 5, Network Cable (Encelium NWC-400-B).....	621.86	24.16
26 09 23 00-0196 EA Indoor Wired Photo Sensor (Encelium PHS-700)	383.41	48.32
Note: Excludes GB II cable.		
26 09 23 00-0197 EA Outdoor Wired Photo Sensor (Encelium PHS-800)	383.41	48.32
Note: Excludes GB II cable.		
26 09 23 00-0198 EA Skylight Wired Photo Sensor (Encelium PHS-900).....	383.41	48.32
Note: Excludes GB II cable.		
26 09 23 00-0199 EA 450 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-0450).....	212.89	48.32
Note: Excludes GB II cable.		
26 09 23 00-0200 EA 1,500 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-1500).....	207.17	48.32
Note: Excludes GB II cable.		
26 09 23 00-0201 EA 2,500 SF, Wide View, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-WV00).....	210.98	48.32
Note: Excludes GB II cable.		
26 09 23 00-0202 EA High-Bay, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-HBAY).....	230.04	48.32
Note: Excludes GB II cable.		
26 09 23 00-0203 EA Long-Range, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-LRNG).....	210.98	48.32
Note: Excludes GB II cable.		
26 09 23 00-0204 EA Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor, 120-277VAC, No Neutral (Encelium SSP-LNV)	172.88	48.32
Note: Excludes GB II cable.		
26 09 23 00-0205 EA High Bay, Passive Infrared, Fixture Mounted, Wired Occupancy Sensor (Encelium WSPPEM24V)	181.58	48.32
Note: Excludes GB II cable.		
26 09 23 00-0206 EA High Bay, Passive Infrared, Surface Mounted, Wired Occupancy Sensor (Encelium WSPSPM24V).....	181.58	48.32
Note: Excludes GB II cable.		
26 09 23 00-0207 EA 360 Degree Lens, Wired Occupancy Sensor (Encelium WSPLNS360)	108.99	48.32
Note: Excludes GB II cable.		
26 09 23 00-0208 EA Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium PW-100-24).....	215.70	48.32
Note: Excludes GB II cable.		
26 09 23 00-0209 EA Hallway, Wired Occupancy Sensor (Encelium HW-13)	293.38	48.32
Note: Excludes GB II cable.		
26 09 23 00-0210 EA 500 SF, 180 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-0500)	260.53	48.32
Note: Excludes GB II cable.		
26 09 23 00-0211 EA 1,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-1000)	275.77	48.32
Note: Excludes GB II cable.		
26 09 23 00-0212 EA 2,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-2000)	283.40	48.32
Note: Excludes GB II cable.		
26 09 23 00-0213 EA 1,200 SF, (Multi) Passive Infrared And Ultrasonic, Wall Mounted, Wired Occupancy Sensor (Encelium SWM- 1200)	258.62	48.32
Note: Excludes GB II cable.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0214 EA Passive Infrared And Ultrasonic, Wall Switch Mounted, Wired Occupancy Sensor, 120-277VAC, No Neutral (Encelium SSM-LNV).....	220.52	48.32
Note: Excludes GB II cable.		
26 09 23 00-0215 EA 500 SF, 180 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC05-M0W)	268.73	48.32
Note: Excludes GB II cable.		
26 09 23 00-0216 EA 1,200 SF, 360 Degree, Dual Technology, Wall Mounted, Wired Occupancy Sensor (Encelium OSW12-M0W)	266.73	48.32
Note: Excludes GB II cable.		
26 09 23 00-0217 EA 2,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC20-M0W)	292.74	48.32
Note: Excludes GB II cable.		
26 09 23 00-0218 EA 1,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC10-M0W)	284.74	48.32
Note: Excludes GB II cable.		
26 09 23 00-0219 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium DW-100-24).....	304.28	48.32
Note: Excludes GB II cable.		
26 09 23 00-0220 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium WSD-PDT-LV).....	284.82	48.32
Note: Excludes GB II cable.		
26 09 23 00-0221 EA Wide View, Dual Technology, Wired Occupancy Sensor (Encelium WV-PDT)	284.82	48.32
Note: Excludes GB II cable.		
26 09 23 00-0222 EA 10A, 120V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRU1C).....	197.00	48.32
26 09 23 00-0223 EA 10A, 277V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRH1C).....	208.97	48.32
26 09 23 00-0224 EA 20A, 120V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR01P)	344.66	48.32
26 09 23 00-0225 EA 20A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR02P)	366.65	48.32
26 09 23 00-0226 EA 10A, 120V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2401D).....	277.93	48.32
26 09 23 00-0227 EA 10A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2402D).....	288.55	48.32
26 09 23 00-0228 EA 24 Circuit, Relay Module (Encelium EN-RPM-24C-GB2).....	803.12	96.64
Note: Excludes GB II cable and enclosure.		
26 09 23 00-0229 EA 24 Circuit, 120/277V, Relay Panel With Relay Module (Encelium EN-RP-24C-GB2-120/277V)	2,559.06	386.55
Note: Excludes GB II cable.		
26 09 23 00-0230 EA 12 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA12R120-347V)	3,630.63	386.55
Note: Excludes GB II cable.		
26 09 23 00-0231 EA 24 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA24R120-347V)	4,702.19	386.55
Note: Excludes GB II cable.		
26 09 23 00-0232 EA Wired Phase Cut Dimming Module (Encelium EN-PCDM-GB2).....	401.56	48.32
Note: Excludes GB II cable.		
26 09 23 00-0233 EA Wired DALI Bridge (Encelium EN-DB-1L-GB2)	456.01	48.32
Note: Excludes GB II cable.		
26 09 23 00-0234 EA Wireless Manager (Encelium EN-WM-ZB-P3D).....	1,185.63	48.32
Note: Includes white finish.		
26 09 23 00-0235 EA Wireless Control Module (Encelium EN-WCM-ZB)	171.74	24.16
26 09 23 00-0236 EA Damp Rated, Wireless Control Module (Encelium EN-WCM-ZB-DR).....	200.78	24.16
26 09 23 00-0237 EA Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK).....	201.50	24.16
26 09 23 00-0238 EA Damp Rated, Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK-DR)	208.35	24.16
26 09 23 00-0239 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH).....	147.58	12.08
Note: Includes white finish.		
26 09 23 00-0240 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH)	147.58	12.08
Note: Includes white finish.		
26 09 23 00-0241 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH).....	147.58	12.08
Note: Includes white finish.		
26 09 23 00-0242 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH)	147.58	12.08
Note: Includes white finish.		
26 09 23 00-0243 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....	147.58	12.08
Note: Includes white finish.		
26 09 23 00-0244 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)	152.30	12.08
26 09 23 00-0245 EA 315 MHz, Wireless Photocell (Encelium TAP-17C)	336.22	48.32
26 09 23 00-0246 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB)	220.06	48.32
26 09 23 00-0247 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB)	220.06	48.32
26 09 23 00-0248 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR)	249.10	48.32
26 09 23 00-0249 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....	249.10	48.32
26 09 23 00-0250 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH).....	147.58	12.08
Note: Includes white finish.		
26 09 23 00-0251 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH)	147.58	12.08
Note: Includes white finish.		
26 09 23 00-0252 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH).....	147.58	12.08
Note: Includes white finish.		
26 09 23 00-0253 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH)	147.58	12.08
Note: Includes white finish.		
26 09 23 00-0254 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....	147.58	12.08
Note: Includes white finish.		
26 09 23 00-0255 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)	152.30	12.08
Note: Includes white finish.		
26 09 23 00-0256 EA 315 MHz, Wireless Photocell (Encelium TAP-17C)	336.22	48.32
26 09 23 00-0257 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH).....	147.58	12.08
26 09 23 00-0258 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH)	147.58	12.08
26 09 23 00-0259 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....	147.58	12.08
26 09 23 00-0260 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)	152.30	12.08
26 09 23 00-0261 EA 315 MHz, Wireless Photocell (Encelium TAP-17C)	336.22	48.32
26 09 23 00-0262 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB)	220.06	48.32
26 09 23 00-0263 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB)	220.06	48.32
26 09 23 00-0264 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR)	249.10	48.32
26 09 23 00-0265 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....	249.10	48.32
26 09 23 00-0266 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH).....	147.58	12.08
Note: Includes white finish.		
26 09 23 00-0267 EA 3 Scene Control, Wireless, Wall Station (Encelium EN-WS-SC3-ZB-WH)	147.58	12.08
Note: Includes white finish.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0268 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH) Note: Includes white finish.	147.58	12.08
26 09 23 00-0269 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) Note: Includes white finish.	147.58	12.08
26 09 23 00-0270 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH) Note: Includes white finish.	147.58	12.08
26 09 23 00-0271 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)	152.30	12.08
26 09 23 00-0272 EA 315 MHz, Wireless Photocell (Encelium TAP-17C)	336.22	48.32
26 09 23 00-0273 EA Ceiling Mounted, Wireless Mounting Kit (Encelium EN-SCPPH-MK-ZB)	113.33	48.32
26 09 23 00-0274 EA Emergency Lighting Control Unit (WattStopper ELCU-200)	198.96	43.49
26 09 23 00-0275 EA Wireless Ethernet Transceiver Unit (cns-enocean Connectivity Kit)	431.81	48.32
26 09 23 00-0276 Lighting Control Sensors (26 09 23)		
26 09 23 00-0277 EA DALIMulti Sensor, 600 SF (Fithlight FLT-MTS6-DALI)	227.91	21.74
26 09 23 00-0278 EA DALIMulti Sensor, 1,200 SF (Fithlight FLT-MTS12-DALI)	227.91	21.74
26 09 23 00-0279 EA Smart Multi-sensor (LG 9SD131VVDA.ALWB000).....	201.15	21.74
26 09 23 00-0280 EA Zigbee Dongle (LG 9CM2315VD2.AWP01U)	62.34	14.50
26 09 23 00-0281 EA Clip for Performance Troffer (LG BKTTR015122.BUAAWAA)	5.96	
26 09 23 00-0282 EA Clip for Downlight (BKTCE015123.BUAAWAA).....	39.77	
26 09 23 00-0283 EA Clip for Tube (LG BKTU015121.BUAAWAA).....	7.91	
26 09 23 00-0284 Radio Controlled Devices (Lutron) (26 09 23)		
26 09 23 00-0285 Tabletop Transmitters For Radio Controlled Devices (26 09 23 00-0284)		
26 09 23 00-0286 Switched Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0285)		
26 09 23 00-0287 EA One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-SW-B-WH).....	290.88	14.50
26 09 23 00-0288 EA Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2SW-B-WH).....	376.23	14.50
26 09 23 00-0289 EA Three Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3SW-B-WH)	472.25	14.50
26 09 23 00-0290 Dimmable Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0285)		
26 09 23 00-0291 EA One Zone Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-B-WH)	290.88	14.50
26 09 23 00-0292 EA Two Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-B-WH)	344.23	14.50
26 09 23 00-0293 EA Three Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-B-WH)	472.25	14.50
26 09 23 00-0294 EA One Zone Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-WH).....	290.88	14.50
26 09 23 00-0295 EA Two Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-WH).....	376.23	14.50
26 09 23 00-0296 EA Three Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-WH).....	472.25	14.50
26 09 23 00-0297 Dimmable And Switched Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0285)		
26 09 23 00-0298 EA One Zone Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LSW-B-WH)	376.23	14.50
26 09 23 00-0299 EA Two Zones Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LSW-B-WH).....	472.25	14.50
26 09 23 00-0300 EA One Zone Of Dimmable Lighting Controls And Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2SW-B-WH).....	472.25	14.50
26 09 23 00-0301 Dimmable Lighting Controls And Shade Or Projection Controls, Tabletop Wireless Transmitter (26 09 23 00-0285)		
26 09 23 00-0302 EA One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-C3-B-WH)	290.88	14.50
26 09 23 00-0303 EA Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2C3-B-WH).....	376.23	14.50
26 09 23 00-0304 EA One Zone Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC2-B-WH)	344.23	14.50
26 09 23 00-0305 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC2-B-WH).....	418.91	14.50
26 09 23 00-0306 EA One Zone Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC3-B-WH)	376.23	14.50
26 09 23 00-0307 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC3-B-WH)	450.92	14.50
26 09 23 00-0308 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2C3-B-WH)	376.23	14.50
26 09 23 00-0309 Dimmable Lighting Controls And Sivoia QED Shade Controls, Tabletop Wireless Transmitter (26 09 23 00-0285)		
26 09 23 00-0310 EA One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-Q-B-WH).....	290.88	14.50
26 09 23 00-0311 EA Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2Q-B-WH).....	376.23	14.50
26 09 23 00-0312 EA One Zone Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQ-B-WH)	376.23	14.50

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0313 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LQ-B-WH).....	472.25	14.50
26 09 23 00-0314 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2Q-B-WH).....	376.23	14.50
26 09 23 00-0315 EA One Zone Of Dimmable Lighting Controls, One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, One Zone Of Output Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQC2-B-WH)	472.25	14.50
26 09 23 00-0316 Output Switch Closure Controls, Tabletop Wireless Transmitter (26 09 23 00-0285)		
26 09 23 00-0317 EA Five Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5-WH).....	290.88	14.50
26 09 23 00-0318 EA Nine Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C4-WH)	376.23	14.50
26 09 23 00-0319 EA Thirteen Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C52C4-WH)	472.25	14.50
26 09 23 00-0320 Accessories For Tabletop Wireless Transmitter (26 09 23 00-0285)		
26 09 23 00-0321 EA Security Mounting Brackets For Tabletop Wireless Transmitters (Lutron RTA-SEC-WH)	66.84	14.50
26 09 23 00-0322 Wall Box Transmitters For Radio Controlled Devices (26 09 23 00-0284)		
26 09 23 00-0323 EA On/Off Switched Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2BSW-WH)	269.54	14.50
26 09 23 00-0324 EA Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2B-WH).....	290.88	14.50
26 09 23 00-0325 EA Four Preset Lighting Level And Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-5B-WH)	290.88	14.50
26 09 23 00-0326 EA Open/Stop/Close Motorized Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C3LB-WH).....	290.88	14.50
26 09 23 00-0327 EA Up/Down Projection Screen Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C2LB-WH).....	290.88	14.50
26 09 23 00-0328 EA Open/Stop/Close Sivoia QED Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-Q3LB-WH).....	290.88	14.50
26 09 23 00-0329 Interfaces For Radio Controlled Devices (26 09 23 00-0284)		
26 09 23 00-0330 EA Incandescent And Magnetic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-INC-2000)	269.54	14.50
26 09 23 00-0331 EA Lutron Tu-Wire Ballast Interface For Radio Controlled Devices (Lutron FDI-INC-2000).....	269.54	14.50
26 09 23 00-0332 EA Electronic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-ELV-1000).....	269.54	14.50
26 09 23 00-0333 EA Sivoia QED Controllable Window Treatments Contact Closure Interface For Radio Controlled Devices (Lutron SVQ-CCI-8)	540.53	14.50
26 09 23 00-0334 EA RS-232 Interface For Radio Controlled Devices (Lutron RTA-RS232)	770.98	14.50
26 09 23 00-0335 EA Switch Closure Input Interface For Radio Controlled (Lutron RTA-SCI)	770.98	14.50
26 09 23 00-0336 Fluorescent Controllers For Radio Controlled Devices (26 09 23 00-0284)		
26 09 23 00-0337 EA On/Off Switched Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-SW)	344.23	14.50
26 09 23 00-0338 EA Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F).....	386.90	14.50
26 09 23 00-0339 EA Switch Closures And Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F-SC).....	450.92	14.50
26 09 23 00-0340 AC Motor Group Controllers For Radio Controlled Devices (26 09 23 00-0284)		
26 09 23 00-0341 EA Up To Two Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-2M-GC)	504.26	14.50
26 09 23 00-0342 EA Up To Four Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-4M-GC).....	690.97	14.50
26 09 23 00-0343 RF Wireless Technology, Switches And Dimmers (Lutron® Maestro Wireless®) (26 09 23)		
26 09 23 00-0344 RF Wireless Technology, Switches (Lutron® Maestro Wireless®) (26 09 23 00-0343)		
26 09 23 00-0345 EA 6 Amp Lighting, 3 Amp Fan, RF Wireless Technology, Electronic Switch (Lutron® Maestro Wireless® MRF2-6ANS)	87.78	19.32
26 09 23 00-0346 EA 8 Amp Lighting, 5.8 Amp Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8ANS-120).....	101.36	19.32
26 09 23 00-0347 EA 8 Amp Lighting, 3 Amp Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8S-DV).....	152.00	19.32
26 09 23 00-0348 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS)	65.11	19.32
26 09 23 00-0349 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS-277)	76.98	19.32
26 09 23 00-0350 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS)	70.09	19.32
26 09 23 00-0351 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS-277)	82.20	19.32
26 09 23 00-0352 RF Wireless Technology, Dimmers (Lutron® Maestro Wireless®) (26 09 23 00-0343)		
26 09 23 00-0353 EA 600 Watt, 120 Volt, RF Wireless Technology, Incandescent Dimmer (Lutron® Maestro Wireless® MRF2-600M)	84.64	19.32
26 09 23 00-0354 EA 600 Watt, 120 Volt, RF Wireless Technology, Magnetic Low Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6MLV).....	90.91	19.32
26 09 23 00-0355 EA 600 Watt, 120 Volt, RF Wireless Technology, Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-6ND-120)	106.59	19.32
26 09 23 00-0356 EA 1,000 Watt, 120 Volt, RF Wireless Technology, Spec Grade Dimmer (Lutron® Maestro Wireless® MRF2-10D-120)	116.25	24.16
26 09 23 00-0357 EA 600 Watt, 120 Volt, RF Wireless Technology, Electronic Low-Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6ELV-120).....	137.42	19.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0358 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R).....	53.03	19.32
26 09 23 00-0359 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R-277)	61.65	19.32
26 09 23 00-0360 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD)	56.17	19.32
26 09 23 00-0361 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD-277)	64.79	19.32
26 09 23 00-0362 EA 6 Amp, 120/277 Volt, RF Wireless Technology, 3-Wire Fluorescent Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-F6AN-DV).....	161.71	33.82
26 09 23 00-0363 Occupancy Sensors (Watt Stopper) <small>(26 09 23)</small> Note: Includes testing of new devices and certification.		
26 09 23 00-0364 Occupancy Sensors <small>(26 09 23 00-0363)</small> Note: Exclude boxes.		
26 09 23 00-0365 Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0364)</small>		
26 09 23 00-0366 Ultrasonic, Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0365)</small>		
26 09 23 00-0367 EA Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-100).....	99.88	9.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.80	
26 09 23 00-0368 EA Dual Relay, Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-200)	117.72	9.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.80	
26 09 23 00-0369 Passive Infrared, Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0365)</small>		
26 09 23 00-0370 EA Nightlight, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WN-100).....	82.63	9.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.80	
26 09 23 00-0371 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WS)	77.22	9.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.80	
26 09 23 00-0372 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-100)	87.32	9.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.80	
26 09 23 00-0373 EA Dual Relay, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-200).....	100.96	9.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.80	
26 09 23 00-0374 EA Dimmable, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WD)	99.83	9.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.80	
26 09 23 00-0375 Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0365)</small>		
26 09 23 00-0376 EA Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-100).....	144.88	9.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.80	
26 09 23 00-0377 EA Dual Relay, Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-200)	156.17	9.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.80	
26 09 23 00-0378 Wall Switch Mounted Occupancy Sensor Accessories <small>(26 09 23 00-0365)</small>		
26 09 23 00-0379 EA Single Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	5.92	2.42
26 09 23 00-0380 EA One Side Blank, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP)	6.82	2.42
26 09 23 00-0381 EA Switch Option, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP)	6.82	2.42
26 09 23 00-0382 Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0364)</small>		
26 09 23 00-0383 Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0382)</small>		
26 09 23 00-0384 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0383)</small>		
26 09 23 00-0385 EA 500 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-500A).....	132.79	21.74
26 09 23 00-0386 EA 1,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-1000A).....	152.19	21.74
26 09 23 00-0387 EA 2,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000A).....	171.74	21.74
26 09 23 00-0388 EA 90 LF Hallway Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000H)	169.98	21.74
26 09 23 00-0389 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0383)</small>		
26 09 23 00-0390 EA 600 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-605)	144.27	21.74
26 09 23 00-0391 EA 1,100 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1105)	163.96	21.74
26 09 23 00-0392 EA 2,205 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2205)	182.59	21.74
26 09 23 00-0393 EA 90 LF Hallway Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2255)	185.75	21.74
26 09 23 00-0394 EA 600 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-600).....	156.04	21.74
26 09 23 00-0395 EA 1,100 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1100)	176.21	21.74
26 09 23 00-0396 EA 2,200 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2200)	196.30	21.74
26 09 23 00-0397 EA 90 LF Hallway Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2250).....	202.09	21.74

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0398 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0383)</small>		
26 09 23 00-0399 EA 500 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-1).....	149.96	21.74
26 09 23 00-0400 EA 1,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-2).....	173.47	21.74
26 09 23 00-0401 EA 2,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-3).....	193.16	21.74
26 09 23 00-0402 EA 500 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-1).....	141.30	21.74
26 09 23 00-0403 EA 1,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-2).....	170.93	21.74
26 09 23 00-0404 EA 2,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-3).....	180.53	21.74
26 09 23 00-0405 EA 500 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-1).....	151.18	21.74
26 09 23 00-0406 EA 1,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-2).....	168.24	21.74
26 09 23 00-0407 EA 2,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-3).....	189.31	21.74
26 09 23 00-0408 Passive Infrared, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0382)</small>		
26 09 23 00-0409 EA 30 Segment, 5 Level Lens, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper WPIR).....	110.14	21.74
26 09 23 00-0410 EA HVAC/BAS, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-12/24).....	112.43	21.74
26 09 23 00-0411 EA Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-205).....	117.86	21.74
26 09 23 00-0412 EA Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-355).....	132.42	21.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0413 EA Low Profile, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-305).....	134.19	21.74
26 09 23 00-0414 EA Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-200).....	141.81	21.74
26 09 23 00-0415 EA Low Profile, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-300).....	154.00	21.74
26 09 23 00-0416 Passive Infrared And Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0382)</small>		
26 09 23 00-0417 EA 1,000 SF 360 Degree Coverage, Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-355).....	182.43	21.74
26 09 23 00-0418 EA 1,000 SF 360 Degree Coverage, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-300).....	208.23	21.74
26 09 23 00-0419 EA 1,000 SF 360 Degree Coverage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-305).....	176.95	21.74
26 09 23 00-0420 Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0364)</small>		
26 09 23 00-0421 Passive Infrared, Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0420)</small>		
26 09 23 00-0422 EA 120 LF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100-1/3).....	223.69	21.74
26 09 23 00-0423 EA 2,000 SF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100).....	223.69	21.74
26 09 23 00-0424 Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0420)</small>		
26 09 23 00-0425 EA 2,000 SF Coverage, Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper DT-200).....	208.23	21.74
26 09 23 00-0426 Occupancy Sensor Power Packs <small>(26 09 23 00-0363)</small>		
26 09 23 00-0427 Single Voltage, Occupancy Sensor Power Packs <small>(26 09 23 00-0426)</small>		
26 09 23 00-0428 EA 220 - 240 Volt AC, 20 Amp, Occupancy Sensor Power Pack (Watt Stopper B230E-P).....	74.74	19.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.60	
26 09 23 00-0429 EA 347 Volt AC, 15 Amp, Occupancy Sensor Power Pack (Watt Stopper B347D-P).....	68.18	19.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.60	
26 09 23 00-0430 Auxiliary, Occupancy Sensor Power Packs <small>(26 09 23 00-0426)</small>		
26 09 23 00-0431 EA 120, 277 Or 347 Volt AC, 20 Amp, Auxiliary Occupancy Sensor Power Pack (Watt Stopper S120/277/347E-P).....	62.78	19.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.60	
26 09 23 00-0432 Universal Voltage, Power Packs For Occupancy Sensors <small>(26 09 23 00-0426)</small>		
26 09 23 00-0433 EA 120/277 Volt AC, 20 Amp, Dual Voltage, Occupancy Sensor Power Pack (Watt Stopper BZ-100).....	82.54	19.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.60	
26 09 23 00-0434 Form C, Occupancy Sensor Power Packs <small>(26 09 23 00-0426)</small>		
26 09 23 00-0435 EA 120 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A120C-P).....	75.04	19.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.60	
26 09 23 00-0436 EA 277 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A277C-P).....	75.09	19.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0437 Two Relay, Occupancy Sensor Power Packs <small>(26 09 23 00-0426)</small>		
26 09 23 00-0438 EA 120 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C120E-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.03 11.60	19.32
26 09 23 00-0439 EA 277 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C277E-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.33 11.60	19.32
26 09 23 00-0440 Occupancy Sensor Power Supplies <small>(26 09 23 00-0426)</small>		
26 09 23 00-0441 EA 120 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-120) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	199.40 11.60	19.32
26 09 23 00-0442 EA 277 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-277) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	190.06 11.60	19.32
26 09 23 00-0443 Intelligent, Occupancy Sensor Power Packs <small>(26 09 23 00-0426)</small>		
26 09 23 00-0444 EA 120/277 Volt AC, Two Relays, Two Dimming Channels, Intelligent Occupancy Sensor Power Pack (Watt Stopper LC-100)	250.97	19.32
26 09 23 00-0445 DIN Rail Mounted, Occupancy Sensor Power Packs <small>(26 09 23 00-0426)</small>		
26 09 23 00-0446 EA 120/230/277 Volt AC, DIN Rail Mounted, Occupancy Sensor Power Pack (Watt Stopper BD-100).....	81.80	19.32
26 09 23 00-0447 Occupancy Sensor Accessories <small>(26 09 23 00-0363)</small>		
26 09 23 00-0448 Protective Cages For Occupancy Sensors <small>(26 09 23 00-0447)</small>		
26 09 23 00-0449 EA Protective Cage For Occupancy Sensors (Watt Stopper WC).....	46.68	7.24
26 09 23 00-0450 Mounting Brackets For Occupancy Sensors <small>(26 09 23 00-0447)</small>		
26 09 23 00-0451 EA Mounting Bracket For Occupancy Sensor (Watt Stopper MB)..... Note: Includes J-plate for mounting to HID fixtures or L-plate for mounting to fluorescent fixtures, walls, shelves and girders.	37.01	12.08
26 09 23 00-0452 Occupancy/Lighting Logger <small>(26 09 23 00-0447)</small>		
Note: Logs when a space is occupied/vacant and when lighting is on/off.		
26 09 23 00-0453 EA Occupancy/Lighting Logger With Connector Cable (Watt Stopper IT-200).....	345.47	41.07
26 09 23 00-0454 Remove And Reinstall Occupancy Sensors <small>(26 09 23 00-0447)</small>		
26 09 23 00-0455 EA Removal And Reinstallation Of Surface Mounted Occupancy Sensor..... Note: Includes storing and cleaning.	65.23	
26 09 23 00-0456 EA Removal And Reinstallation Of Wall Switch Mounted Occupancy Sensor Note: Includes storing and cleaning.	28.99	
26 09 23 00-0457 Digital Time Light Switches <small>(26 09 23 00-0363)</small>		
26 09 23 00-0458 EA Preset Time, Wall Switch Mounted, Digital Time Light Switch (Watt Stopper TS-400).....	74.67	9.66
26 09 23 00-0459 Occupancy Sensors (Sensor Switch) <small>(26 09 23)</small>		
Note: Includes testing of new devices and certification.		
26 09 23 00-0460 Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0459)</small>		
Note: Exclude boxes		
26 09 23 00-0461 Wall Switch Mount Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0460)</small>		
26 09 23 00-0462 Passive Infrared, Wall Switch Mount Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0461)</small>		
26 09 23 00-0463 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD LV)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Low Voltage Relay Option, Add</i>	126.01 8.08 9.70	9.66
26 09 23 00-0464 EA Nightlight, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD NL) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.45 5.80	9.66
26 09 23 00-0465 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD)	86.53	9.66
<i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.08 9.70 5.80	
26 09 23 00-0466 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD SA).....	86.53	9.66
<i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.08 9.70 5.80	
26 09 23 00-0467 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD 2P)	108.23	9.66
<i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.08 9.70 5.80	
26 09 23 00-0468 EA Single Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i>	108.23 8.08 9.70	9.66

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0469	EA		2-Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS 2P) <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i>	130.46 8.08 9.70	9.66
26 09 23 00-0470	EA		Single Pole, Passive Infrared, Internally Powered, Wall Switch Mount Occupancy Sensor (Sensor Switch IPD)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i>	108.23 8.08 9.70	9.66
26 09 23 00-0471			Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0461)</small> Note: Includes passive infrared and microphonics detection		
26 09 23 00-0472	EA		Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT LV)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Low Voltage Relay Option, Add</i>	161.57 8.08 9.70	9.66
26 09 23 00-0473	EA		Nightlight, Line Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT NL) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.01 5.80	9.66
26 09 23 00-0474	EA		Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT) <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.35 8.08 9.70 5.80	9.66
26 09 23 00-0475	EA		Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT SA)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.35 8.08 9.70 5.80	9.66
26 09 23 00-0476	EA		2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT 2P) <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.79 8.08 9.70 5.80	9.66
26 09 23 00-0477	EA		Single Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i>	143.79 8.08 9.70	9.66
26 09 23 00-0478	EA		2-Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT 2P) <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i>	154.46 8.08 9.70	9.66
26 09 23 00-0479			Wall Switch Mount Occupancy Sensor Accessories (Sensor Switch) <small>(26 09 23 00-0461)</small>		
26 09 23 00-0480	EA		One Blank, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX)	11.95	2.42
26 09 23 00-0481	EA		One Switch, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX)	11.95	2.42
26 09 23 00-0482	EA		Two Blanks, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX 3)	22.62	2.42
26 09 23 00-0483	EA		Two Switches, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX 3).....	22.62	2.42
26 09 23 00-0484			360 Degree View Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0460)</small>		
26 09 23 00-0485			Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0464)</small> Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0486	EA		Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 9) <i>For Low Temp/High Humidity Option, Add</i> <i>For Low Voltage Relay Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i> <i>For Photocell Option With Dimming Capability, Add</i>	150.18 8.08 9.70 9.70 16.16 24.25	21.74
26 09 23 00-0487	EA		Low Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 9) <i>For Low Temp/High Humidity Option, Add</i> <i>For Low Voltage Relay Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i> <i>For Photocell Option With Dimming Capability, Add</i>	150.18 8.08 9.70 9.70 16.16 24.25	21.74
26 09 23 00-0488	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 9) <i>For Low Temp/High Humidity Option, Add</i> <i>For Low Voltage Relay Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i> <i>For Photocell Option With Dimming Capability, Add</i>	150.18 8.08 9.70 9.70 16.16 24.25	21.74
26 09 23 00-0489	EA		Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9) <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i> <i>For Photocell Option With Dimming Capability, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	159.07 8.08 9.70 16.16 24.25 13.05	21.74
26 09 23 00-0490	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9) <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i> <i>For Photocell Option With Dimming Capability, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	159.07 8.08 9.70 16.16 24.25 13.05	21.74



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0491 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9)	130.62	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
<i>For Photocell Option With Dimming Capability, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0492 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9 2P)	194.63	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0493 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9 2P)	194.63	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0494 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9 2P)	166.18	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0495 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 10)	150.18	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Low Voltage Relay Option, Add</i>	9.70	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
<i>For Photocell Option With Dimming Capability, Add</i>	24.25	
26 09 23 00-0496 EA Low Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 10)	150.18	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Low Voltage Relay Option, Add</i>	9.70	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
<i>For Photocell Option With Dimming Capability, Add</i>	24.25	
26 09 23 00-0497 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 10)	150.18	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Low Voltage Relay Option, Add</i>	9.70	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
<i>For Photocell Option With Dimming Capability, Add</i>	24.25	
26 09 23 00-0498 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10)	159.07	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
<i>For Photocell Option With Dimming Capability, Add</i>	24.25	
26 09 23 00-0499 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10)	159.07	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
<i>For Photocell Option With Dimming Capability, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0500 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10)	130.62	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
<i>For Photocell Option With Dimming Capability, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0501 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10 2P)	194.63	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0502 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10 2P)	194.63	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0503 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10 2P)	166.18	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 09 23 00-0504		Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch) ⁽²⁶⁾ <small>09 23 00-0484</small> Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection			
26 09 23 00-0505	EA	Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 9)	185.74		21.74
		<i>For Low Temp/High Humidity Option, Add</i>	8.08		
		<i>For Low Voltage Relay Option, Add</i>	9.70		
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70		
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.16		
		<i>For Photocell Option With Dimming Capability, Add</i>	24.25		
26 09 23 00-0506	EA	Low Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 9)	185.74		21.74
		<i>For Low Temp/High Humidity Option, Add</i>	8.08		
		<i>For Low Voltage Relay Option, Add</i>	9.70		
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70		
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.16		
		<i>For Photocell Option With Dimming Capability, Add</i>	24.25		
26 09 23 00-0507	EA	Low Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 9)	185.74		21.74
		<i>For Low Temp/High Humidity Option, Add</i>	8.08		
		<i>For Low Voltage Relay Option, Add</i>	9.70		
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70		
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.16		
		<i>For Photocell Option With Dimming Capability, Add</i>	24.25		
26 09 23 00-0508	EA	Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9)	176.85		21.74
		<i>For Low Temp/High Humidity Option, Add</i>	8.08		
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70		
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.16		
		<i>For Photocell Option With Dimming Capability, Add</i>	24.25		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05		
26 09 23 00-0509	EA	Single Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9)	176.85		21.74
		<i>For Low Temp/High Humidity Option, Add</i>	8.08		
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70		
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.16		
		<i>For Photocell Option With Dimming Capability, Add</i>	24.25		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05		
26 09 23 00-0510	EA	Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9)	148.40		21.74
		<i>For Low Temp/High Humidity Option, Add</i>	8.08		
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70		
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.16		
		<i>For Photocell Option With Dimming Capability, Add</i>	24.25		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05		
26 09 23 00-0511	EA	2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9 2P)	212.41		21.74
		<i>For Low Temp/High Humidity Option, Add</i>	8.08		
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70		
		<i>For Photocell Option With Dual Zone On/Off, Add</i>	24.25		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05		
26 09 23 00-0512	EA	2-Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9 2P)	212.41		21.74
		<i>For Low Temp/High Humidity Option, Add</i>	8.08		
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70		
		<i>For Photocell Option With Dual Zone On/Off, Add</i>	24.25		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05		
26 09 23 00-0513	EA	2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9 2P)	183.96		21.74
		<i>For Low Temp/High Humidity Option, Add</i>	8.08		
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70		
		<i>For Photocell Option With Dual Zone On/Off, Add</i>	24.25		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05		
26 09 23 00-0514	EA	Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 10)	185.74		21.74
		<i>For Low Temp/High Humidity Option, Add</i>	8.08		
		<i>For Low Voltage Relay Option, Add</i>	9.70		
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70		
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.16		
		<i>For Photocell Option With Dimming Capability, Add</i>	24.25		
26 09 23 00-0515	EA	Low Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 10)	185.74		21.74
		<i>For Low Temp/High Humidity Option, Add</i>	8.08		
		<i>For Low Voltage Relay Option, Add</i>	9.70		
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70		
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.16		
		<i>For Photocell Option With Dimming Capability, Add</i>	24.25		
26 09 23 00-0516	EA	Low Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 10)	185.74		21.74
		<i>For Low Temp/High Humidity Option, Add</i>	8.08		
		<i>For Low Voltage Relay Option, Add</i>	9.70		
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70		
		<i>For Occupancy Controlled Dimming Option, Add</i>	16.16		
		<i>For Photocell Option With Dimming Capability, Add</i>	24.25		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0517 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10).....	176.85	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
<i>For Photocell Option With Dimming Capability, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0518 EA Single Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10).....	176.85	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
<i>For Photocell Option With Dimming Capability, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0519 EA Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10).....	148.40	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
<i>For Photocell Option With Dimming Capability, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0520 EA 2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10 2P).....	212.41	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0521 EA 2-Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10 2P).....	212.41	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0522 EA 2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10 2P).....	183.96	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0523 Wide View And Hallway Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0460)</small>		
26 09 23 00-0524 Passive Infrared, Wide View And Hallway Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0523)</small>		
26 09 23 00-0525 EA Low Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV 16).....	150.18	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Low Voltage Relay Option, Add</i>	9.70	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Ceiling Mount, Add</i>	16.16	
26 09 23 00-0526 EA Low Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HW 13).....	167.96	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Low Voltage Relay Option, Add</i>	9.70	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Ceiling Mount, Add</i>	16.16	
26 09 23 00-0527 EA Line Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HWR 13).....	203.52	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Ceiling Mount, Add</i>	16.16	
26 09 23 00-0528 EA Single Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16).....	194.63	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Ceiling Mount, Add</i>	16.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0529 EA 2-Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16 2P).....	230.20	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Ceiling Mount, Add</i>	16.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0530 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0523)</small>		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0531 EA Low Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV PDT 16).....	185.74	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Low Voltage Relay Option, Add</i>	9.70	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Ceiling Mount, Add</i>	16.16	
26 09 23 00-0532 EA Single Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16).....	212.41	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	9.70	
<i>For Ceiling Mount, Add</i>	16.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0533	EA		2-Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16 2P).....	247.98	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Photozell (Inhibit Mode Only) Option, Add</i>	9.70	
			<i>For Ceiling Mount, Add</i>	16.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0534			High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0460)		
26 09 23 00-0535			Passive Infrared, High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0534)		
26 09 23 00-0536	EA		Low Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CM 6).....	150.18	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Low Voltage Relay Option, Add</i>	9.70	
			<i>For Photozell Option, Add</i>	16.16	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
26 09 23 00-0537	EA		Low Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RM 6).....	150.18	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Low Voltage Relay Option, Add</i>	9.70	
			<i>For Photozell Option, Add</i>	16.16	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
26 09 23 00-0538	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMB 6).....	150.18	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Low Voltage Relay Option, Add</i>	9.70	
			<i>For Photozell Option, Add</i>	16.16	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
26 09 23 00-0539	EA		Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6).....	130.62	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Start To High, HID Option, Add</i>	9.70	
			<i>For Photozell Option, Add</i>	16.16	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0540	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6).....	130.62	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Start To High, HID Option, Add</i>	9.70	
			<i>For Photozell Option, Add</i>	16.16	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0541	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6).....	130.62	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Start To High, HID Option, Add</i>	9.70	
			<i>For Photozell Option, Add</i>	16.16	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0542	EA		2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 2P).....	166.18	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Photozell Option, Add</i>	16.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0543	EA		2-Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 2P).....	166.18	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Photozell Option, Add</i>	16.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0544	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 2P).....	166.18	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Photozell Option, Add</i>	16.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0545	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 208).....	143.07	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Photozell Option, Add</i>	16.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0546	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 208).....	143.07	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Photozell Option, Add</i>	16.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0547	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 208).....	143.07	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Photozell Option, Add</i>	16.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0548	EA		480 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 480).....	143.07	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Photozell Option, Add</i>	16.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0549 EA 480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 480).....	143.07	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell Option, Add</i>	16.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0550 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 480).....	143.07	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell Option, Add</i>	16.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0551 EA Low Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 50).....	167.96	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Low Voltage Relay Option, Add</i>	9.70	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
26 09 23 00-0552 EA Low Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RM 50).....	167.96	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Low Voltage Relay Option, Add</i>	9.70	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
26 09 23 00-0553 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMB 50).....	167.96	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Low Voltage Relay Option, Add</i>	9.70	
<i>For Photocell Option, Add</i>	16.16	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
26 09 23 00-0554 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 50).....	201.75	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Start To High, HID Option, Add</i>	9.70	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0555 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50).....	201.75	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Start To High, HID Option, Add</i>	9.70	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0556 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50).....	201.75	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Start To High, HID Option, Add</i>	9.70	
<i>For Photocell Option, Add</i>	16.16	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0557 EA 2-Pole, Line Voltage, Recessed Mount, Passive Infrared, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 2P).....	178.63	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0558 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 2P).....	178.63	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell Option, Add</i>	16.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0559 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 208).....	151.96	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0560 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 208).....	151.96	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell Option, Add</i>	16.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0561 EA 480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 480).....	151.96	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0562 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 480).....	151.96	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Photocell Option, Add</i>	16.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0563 EA Low Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 10).....	167.96	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Low Voltage Relay Option, Add</i>	9.70	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
26 09 23 00-0564 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMB 10).....	167.96	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Low Voltage Relay Option, Add</i>	9.70	
<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	

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26 09 Instrumentation and Control for Electrical Systems

26 09 23 Lighting Control Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0565	EA		Single Pole, Line Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 10)	201.75	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Start To High, HID Option, Add</i>	9.70	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0566	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10)	201.75	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Start To High, HID Option, Add</i>	9.70	
			<i>For Occupancy Controlled Dimming Option, Add</i>	16.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0567	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 2P)	194.63	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0568	EA		480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 480)	176.85	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0569	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 208)	176.85	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0570			Occupancy Sensor Power Packs (Sensor Switch) <small>(26 09 23 00-0459)</small>		
26 09 23 00-0571	EA		Single Pole, 20 Amp, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20)	88.45	19.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.60	
26 09 23 00-0572	EA		2-Pole, 20 Amp, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20 2P)	124.01	19.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.60	
26 09 23 00-0573	EA		Single Pole, 20 Amp, 120/277 Volt AC, Occupancy Sensor Power Pack Without Relay Circuit Protection (Sensor Switch MP20)	70.67	19.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.60	
26 09 23 00-0574	EA		2-Pole, 20 Amp, 120/277 Volt AC, Occupancy Sensor Slave Pack Without Relay Circuit Protection (Sensor Switch MSP20)	65.33	19.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.60	
26 09 23 00-0575	EA		20 Amp, 120/277 Volt AC, Occupancy Sensor Slave Pack (Sensor Switch SP20)	83.11	19.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.60	
26 09 23 00-0576	EA		120/277 Volt AC, High Intensity Discharge (HID) Power Pack With 20 Minute Start To High Override (Sensor Switch PP20 SH)	127.57	19.32
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.60	
26 09 23 00-0577	EA		120/277 Volt AC, 2-Pole, Power Pack With Alternating Relays (Sensor Switch PP 2PAR)	127.57	19.32
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.60	
26 09 23 00-0578	EA		120/277 Volt AC, Power Pack With Momentary Contacts For Latching Contactors Or Relays (Sensor Switch PP 2PM)	127.57	19.32
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.60	
26 09 23 00-0579			Occupancy Sensor Accessories (Sensor Switch) <small>(26 09 23 00-0459)</small>		
26 09 23 00-0580			Remove And Reinstall Occupancy Sensors <small>(26 09 23 00-0579)</small>		
26 09 23 00-0581	EA		Removal And Reinstallation Of Wall Switch Mounted Occupancy Sensor	28.99	
			Note: Includes storing and cleaning.		
26 09 23 00-0582	EA		Removal And Reinstallation Of Surface Mounted Occupancy Sensor	65.23	
			Note: Includes storing and cleaning.		
26 09 23 00-0583			Daylighting Control (Sensor Switch) <small>(26 09 23 00-0459)</small>		
26 09 23 00-0584	EA		Low Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CM PC)	132.40	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Dual Zone Option, Add</i>	24.25	
26 09 23 00-0585	EA		Low Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RM PC)	132.40	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Dual Zone Option, Add</i>	24.25	
26 09 23 00-0586	EA		Low Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMB PC)	132.40	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For Dual Zone Option, Add</i>	24.25	
26 09 23 00-0587	EA		Line Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CMR PC)	132.40	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For 480 Volt AC Option, Add</i>	11.32	
			<i>For Dual Zone Option, Add</i>	24.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0588	EA		Line Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RMR PC)	132.40	21.74
			<i>For Low Temp/High Humidity Option, Add</i>	8.08	
			<i>For 480 Volt AC Option, Add</i>	11.32	
			<i>For Dual Zone Option, Add</i>	24.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0589 EA Line Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMRB PC).....	132.40	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For 480 Volt AC Option, Add</i>	11.32	
<i>For Dual Zone Option, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0590 EA Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CM ADC).....	132.40	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Dual Zone Option, Add</i>	24.25	
26 09 23 00-0591 EA Low Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RM ADC).....	132.40	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Dual Zone Option, Add</i>	24.25	
26 09 23 00-0592 EA Low Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMB ADC).....	132.40	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Dual Zone Option, Add</i>	24.25	
26 09 23 00-0593 EA Line Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CMR ADC).....	132.40	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Dual Zone Option, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0594 EA Line Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RMR ADC).....	132.40	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Dual Zone Option, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0595 EA Line Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMRB ADC).....	132.40	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Dual Zone Option, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0596 EA Low Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CM PC ADC).....	185.74	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Dual Zone Option, Add</i>	24.25	
26 09 23 00-0597 EA Low Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RM PC ADC).....	185.74	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Dual Zone Option, Add</i>	24.25	
26 09 23 00-0598 EA Low Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMB PC ADC).....	185.74	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Dual Zone Option, Add</i>	24.25	
26 09 23 00-0599 EA Line Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMR PC ADC).....	185.74	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Dual Zone Option, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0600 EA Line Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RMR PC ADC).....	185.74	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Dual Zone Option, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0601 EA Line Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMRB PC ADC).....	185.74	21.74
<i>For Low Temp/High Humidity Option, Add</i>	8.08	
<i>For Dual Zone Option, Add</i>	24.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.05	
26 09 23 00-0602 Occupancy Sensors (Sensor Switch nLight®) (26 09 23)		
Note: Includes testing of new devices and certification.		
26 09 23 00-0603 Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0602)		
Note: Excludes boxes.		
26 09 23 00-0604 Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0603)		
26 09 23 00-0605 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0604)		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0606 EA Low Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor With Raise/Lower Dim Control (Sensor Switch nLight® nWSX PDT LV DX).....	192.96	9.66
26 09 23 00-0607 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0603)		
26 09 23 00-0608 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0607)		
Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0609 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 9).....	234.29	21.74
26 09 23 00-0610 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 10).....	234.29	21.74
26 09 23 00-0611 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor With Auto Dimming Control Photocell (Sensor Switch nLight® nCM 10 ADC).....	234.29	21.74
26 09 23 00-0612 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0607)		
Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		

26 Electrical
26 09 Instrumentation and Control for Electrical Systems
26 09 23 Lighting Control Devices



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0613	EA	Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 9).....	272.46	21.74
26 09 23 00-0614	EA	Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10).....	272.46	21.74
26 09 23 00-0615	EA	2-Channel, Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10 2P).....	281.98	21.74
26 09 23 00-0616		Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0603)</small>		
26 09 23 00-0617		Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0616)</small> Note: Includes passive infrared and microphonics detection		
26 09 23 00-0618	EA	Low Voltage, Dual Technology, Corner/Ceiling Mount, Wide View Occupancy Sensor (Sensor Switch nLight® nWV PDT 16).....	272.46	21.74
26 09 23 00-0619		High Bay Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0603)</small>		
26 09 23 00-0620		Passive Infrared, High Bay Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0619)</small>		
26 09 23 00-0621	EA	Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch nLight® nCMB 6).....	234.29	21.74
26 09 23 00-0622		Occupancy Sensor Power Packs (Sensor Switch nLight®) <small>(26 09 23 00-0602)</small>		
26 09 23 00-0623	EA	150mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-150).....	86.36	19.32
26 09 23 00-0624	EA	250mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-250).....	105.46	19.32
26 09 23 00-0625	EA	30mA/Port At 15 Volt DC Output, 120-277 Volt AC Input, Dimming Power Pack (Sensor Switch nLight® nEPP5 D KO).....	137.88	19.32
26 09 23 00-0626	EA	System Power Pack and Relay, Switching Module (Sensor Switch nLight® nPP 16).....	137.88	19.32
26 09 23 00-0627		Occupancy Sensor Accessories (Sensor Switch nLight®) <small>(26 09 23 00-0602)</small>		
26 09 23 00-0628	EA	RS232 AV Integrator (Sensor Switch nLight® nIO X).....	281.98	21.74
26 09 23 00-0629	EA	8 Port, Aggregation Bridge With Power Supply (Sensor Switch nLight® nBRG 8 KIT).....	377.41	21.74
26 09 23 00-0630		Daylighting Controls (Sensor Switch nLight®) <small>(26 09 23 00-0602)</small>		
26 09 23 00-0631	EA	Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch nLight® nCM ADC).....	196.13	21.74
26 09 23 00-0632		Controls (Sensor Switch nLight®) <small>(26 09 23 00-0602)</small>		
26 09 23 00-0633	EA	On/Off And Raise/Lower Control, Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM DX).....	133.17	21.74
26 09 23 00-0634	EA	1 Scene Controller (2 Buttons), Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM 1SB).....	186.61	21.74
26 09 23 00-0635	EA	On/Off Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM).....	415.56	21.74
26 09 23 00-0636	EA	3-1/2" Screen, High Resolution Touch Screen Controller, WallPod® Station (Sensor Switch nLight® nPOD GFX).....	415.56	21.74
26 09 23 00-0637	EA	3-1/2" Screen, Touch Screen Clock And Network Interface Controller, Gateway (Sensor Switch nLight® nGWY2).....	1,522.23	21.74
26 09 23 00-0638		Occupancy Sensors (Lutron) <small>(26 09 23)</small> Note: Includes testing of new devices and certification.		
26 09 23 00-0639		Wireless Occupancy Sensors <small>(26 09 23 00-0638)</small>		
26 09 23 00-0640	EA	Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Occupancy/Vacancy Sensor (Lutron® LRF2-OCR2B-P-WH).....	102.26	21.74
26 09 23 00-0641	EA	Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Vacancy Sensor (Lutron® LRF2-VCR2B-P-WH).....	106.19	21.74
26 09 23 00-0642	EA	Wireless, Passive Infrared, Hallway Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OHLB-P-WH).....	103.20	21.74
26 09 23 00-0643	EA	Wireless, Passive Infrared, Hallway Wall Mount, Vacancy Sensor (Lutron® LRF2-VHLB-P-WH).....	108.42	21.74
26 09 23 00-0644	EA	Wireless, Passive Infrared, 90 Degree Corner Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OKLB-P-WH).....	104.37	21.74
26 09 23 00-0645	EA	Wireless, Passive Infrared, 90 Degree Corner Mount, Vacancy Sensor (Lutron® LRF2-VKLB-P-WH).....	108.42	21.74
26 09 23 00-0646	EA	Wireless, Passive Infrared, 180 Degree Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OWLB-P-WH).....	102.26	21.74
26 09 23 00-0647	EA	Wireless, Passive Infrared, 180 Degree Wall Mount, Vacancy Sensor (Lutron® LRF2-VWLB-P-WH).....	104.37	21.74
26 09 23 00-0648	EA	Wireless, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Lutron® FHB140NP24V).....	103.20	21.74
26 09 23 00-0649	EA	Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-500-WH).....	152.38	21.74
26 09 23 00-0650	EA	Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-500R-WH).....	161.75	21.74
26 09 23 00-0651	EA	Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-1000-WH).....	182.82	21.74
26 09 23 00-0652	EA	Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-1000R-WH).....	192.19	21.74
26 09 23 00-0653	EA	Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CDT-2000-WH).....	196.87	21.74
26 09 23 00-0654	EA	Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-2000R-WH).....	206.24	21.74
26 09 23 00-0655	EA	Wireless, Passive Infrared, Ceiling Mount, 450 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-450-WH).....	122.87	21.74



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0656 EA Wireless, Passive Infrared, Ceiling Mount, 1,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-1500-WH)	128.96	21.74
26 09 23 00-0657 EA Wireless, Ultrasonic, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-500-WH)	148.86	21.74
26 09 23 00-0658 EA Wireless, Ultrasonic, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-1000-WH)	164.09	21.74
26 09 23 00-0659 EA Wireless, Ultrasonic, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CUS-2000-WH)	175.80	21.74
26 09 23 00-0660 EA Wireless, Passive Infrared, 1,600 SF Coverage, 110 Degree Wall Mount, Occupancy Sensor (Lutron® LOS-WIR-WH)	153.55	21.74
26 09 23 00-0661 EA Wireless, Passive Infrared, RF Daylight Sensor (Lutron® LRF2-DCRB-WH).....	142.15	21.74
26 09 23 00-0662 EA Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-SIR-HD-WH)	120.99	21.74
26 09 23 00-0663 EA Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor, Dual Circuit (Lutron® LOS-S2IR-HD-WH)	145.94	21.74
26 09 23 00-0664 EA Wireless, Switch and Ceiling Retrofit Sensor (Lutron® MRF2-1S8A-10C)	174.49	21.74
26 09 23 00-0665 EA Wireless, Switch and Hallway Retrofit Sensor (Lutron® MRF2-1S8A-10H).....	184.41	21.74
26 09 23 00-0666 EA Wireless, Switch and Corner Retrofit Sensor (Lutron® MRF2-1S8A-10K)	184.41	21.74
26 09 23 00-0667 EA Wireless, Switch and Wall Retrofit Sensor (Lutron® MRF2-1S8A-10W)	184.41	21.74
26 09 23 00-0668 EA Wireless, Switch and Vacancy Retrofit Sensor (Lutron® MRF2-1S8A-10V).....	193.50	21.74
26 09 23 00-0669 EA Wireless, Two Switchs and Wall Retrofit Sensor (Lutron® MRF2-2S8A-10W).....	311.60	31.40
26 09 23 00-0670 Nodes And Modules <small>(26 09 23 00-0638)</small>		
26 09 23 00-0671 EA 0 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-C)	158.23	21.74
26 09 23 00-0672 EA 0 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-J)	158.23	21.74
26 09 23 00-0673 EA 4 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-C)	196.87	21.74
26 09 23 00-0674 EA 4 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-J)	196.87	21.74
26 09 23 00-0675 EA 120 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-120-WH).....	249.71	24.16
26 09 23 00-0676 EA 120 Volt, Gang Box Mount, Switching Power Module (Lutron® PHPM-SW-DV-WH).....	249.71	24.16
26 09 23 00-0677 EA 120 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-120-WH)	300.06	24.16
26 09 23 00-0678 EA 120 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-120-WH)	307.09	24.16
26 09 23 00-0679 EA 120/277 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-DV-WH).....	376.18	24.16
26 09 23 00-0680 EA 120/277 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-DV-WH)	398.43	24.16
26 09 23 00-0681 EA 120/277 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-DV-WH).....	420.67	24.16
26 09 23 00-0682 EA 1 Circuit, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-2).....	1,122.39	38.66
26 09 23 00-0683 EA 2 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-4).....	1,105.71	43.49
26 09 23 00-0684 EA 3 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-6).....	1,613.03	48.32
26 09 23 00-0685 Other Accessories <small>(26 09 23 00-0638)</small>		
26 09 23 00-0686 EA Pico® Wireless Control Wallplate Adapter (Lutron® PJ)	30.11	
26 09 23 00-0687 EA Pico® Wireless Control (Lutron® PJ)	31.06	
26 09 23 00-0688 EA 4-Scene Wireless Remote Control (Lutron® GRX-IT-WH)	91.62	
26 09 23 00-0689 EA 8-Scene Wireless Remote Control (Lutron® GRX-8IT-WH)	172.41	
26 09 23 00-0690 EA 4 Button, EcoSystem® Wall Control With Raise/Lower (Lutron® CC-4BRL).....	190.12	21.74
26 09 23 00-0691 EA seeTouch® QS Wallstation (Lutron® QSW52)	237.58	21.74
26 09 23 00-0692 EA seeTouch® QS Wallstation With Infrared Receiver (Lutron® QSW52)	237.58	21.74
26 09 23 00-0693 EA 120/277 Volt, Energi Savr Node™ With Softswitch®, Fixture Controller (Lutron® QSN-4S16-S)	383.20	24.16
26 09 23 00-0694 EA 120/277 Volt, Energi Savr Node™ For 0-10 V Models, Fixture Controller (Lutron® QSN-4T16-S)	520.21	24.16
26 09 23 00-0695 EA Control Interface (Lutron® QSE-CI-NWK-E).....	621.93	21.74
26 09 23 00-0696 EA 1 EcoSystem® Digital Link, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-1ECO-S)	617.26	21.74
26 09 23 00-0697 EA 2 EcoSystem® Digital Links, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-2ECO-S)	822.18	21.74
26 09 23 00-0698 MLF 5 Conductor, Non-Plenum, Low Voltage Grafik Eye Cable (Lutron® GRX-CBL-346S)	1,702.31	675.51
26 09 23 00-0699 MLF 5 Conductor, Plenum Rated, Low Voltage Grafik Eye Cable (Lutron® GRX-PCBL-346S).....	2,170.69	675.51
26 09 23 00-0700 Fixture Mounted Occupancy Sensors (Leviton) <small>(26 09 23)</small>		
Note: Includes testing of new devices and certification.		
26 09 23 00-0701 EA 120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-ITW).....	98.51	21.74
26 09 23 00-0702 EA 480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-14W)	87.74	21.74
26 09 23 00-0703 EA 120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-CTW)	107.41	21.74
26 09 23 00-0704 EA 480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-C4W)	87.74	21.74
26 09 23 00-0705 EA 120-347 Volt, Dual Detection Occupancy Wall Sensor Switch (Lithonia WSX-PDT)	131.05	9.65
26 09 23 00-0706 Wireless Enabled Communication Devices For Streetlights <small>(26 09 23)</small>		
Note: Includes testing of new devices and certification.		
26 09 23 00-0707 Wireless Enabled Communication Devices For Streetlights (Roam®) <small>(26 09 23 00-0706)</small>		
26 09 23 00-0708 Wireless Enabled Communication Nodes For Streetlights (Roam®) <small>(26 09 23 00-0707)</small>		
Note: 2.4GHz wireless enabled communication node for wireless remote on/off, group scheduling, photocontrol and diagnostics.		
26 09 23 00-0709 EA 120/244/277 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN127 NM1).....	198.45	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0710 EA 480 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN480 NM1).....	274.77	
26 09 23 00-0711 Wireless Enabled Communication Devices For Streetlights (Roam®) (26 09 23 00-0707)		
26 09 23 00-0712 EA Retrofit Receptacle Kit (Roam® DUR103).....	40.09	
Note: For adapting light fixtures for use with a NEMA locking type photocontrol.		
26 09 23 00-0713 EA Wireless Enabled Backbone And Data Backhaul Device, Gateway (Roam® REG127).....	7,739.09	53.44
26 09 23 00-0714 Counter Mounted Consolets (26 09 23)		
26 09 23 00-0715 EA 20" x 24" Type 12, Oil Tight Consolets, Counter Mounted (Schaefer's SPCL-20C24).....	445.18	120.63
26 09 23 00-0716 Lighting Console And Stations (26 09 23)		
26 09 23 00-0717 EA 80 Channel, 40 Faders, Lighting Console (ETC ColorSource CS 40).....	2,792.75	120.63
For Lighting Console Dust Cover (ETC ColorSource CS40DC), Add	59.00	
For Lighting Console Case (ETC ColorSourcePart 11866), Add	629.10	
26 09 23 00-0718 EA 10 Preset, Lighting Control Station (Doug Fleenor PRE10-A2).....	1,922.75	72.38
26 09 23 00-0719 Emergency Lighting Controls (26 09 23)		
26 09 23 00-0720 Emergency Lighting Control Units (Watt Stopper ELCU) (26 09 23 00-0719)		
Note: The ELCU monitors a single circuit and can be wired either as a control device, so that emergency lighting follows the control of normal lighting, or as a bypass device to shunt emergency power around a control device when normal power fails. Includes integral push-to-test button and LED indicator for emergency and normal power.		
26 09 23 00-0721 EA DIN Rail Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-100).....	172.63	24.16
26 09 23 00-0722 EA 1/2" Knockout Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-200).....	172.63	24.16
26 09 23 00-0723 Emergency Shunt Relays (Lighting Control & Design GR 2001™) (26 09 23 00-0719)		
Note: Normally-closed, electrically-held relay to be wired in parallel with a wall switch. Manually controlled emergency lighting will be automatically shunted on during a power outage. Includes two-gang NEMA 1 junction box, voltage-separating barrier and plaster ring separating normal and emergency power. Excludes wall plate and switch.		
26 09 23 00-0724 EA 1 Emergency Shunt Relay And NEMA 1 Enclosure (Lighting Control & Design GR 2001™).....	240.03	33.82
26 09 23 00-0725 EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™).....	323.48	38.66
26 09 23 00-0726 EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™ Dual).....	431.72	43.49
Note: Controls normal and emergency lighting from single-pole wall switch.		
26 09 23 00-0727 Photocells (26 09 23)		
26 09 23 00-0728 EA Plug-In Photocell For Lighting Fixtures.....	67.59	
26 09 23 00-0729 EA Wired Photocell For Lighting Fixtures.....	166.65	

26 10 Medium-Voltage Electrical Distribution (26)**26 11 Substations** (26 10)**26 11 13 Primary Unit Substations** (26 11)**26 11 13 00-0001 "Switchyard" Substation Primary Incoming Section** (26 11 13)**26 11 13 00-0002 Outdoor Oil Circuit Breakers "Switchyard"** (26 11 13 00-0001)

Note: Type SP 14.4 thru 69 KV 1200 amp. Frame mounted. Standard equipment

26 11 13 00-0003 EA 14.4 KV, 500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amp, "Switchyard" Substation.....	45,625.35	1,670.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,019.52	
26 11 13 00-0004 EA 23.0 KV, 750 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amp, "Switchyard" Substation.....	55,976.02	2,112.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,274.40	
26 11 13 00-0005 EA 34.5 KV, 1,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amp, "Switchyard" Substation.....	63,365.73	2,112.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,274.40	
26 11 13 00-0006 EA 46 KV, 2,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amp, "Switchyard" Substation.....	72,833.77	2,112.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,359.35	
26 11 13 00-0007 EA 69 KV, 3,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amp, "Switchyard" Substation.....	82,637.89	2,604.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,568.49	

26 11 13 00-0008 Accessories For Outdoor Oil Circuit Breakers (26 11 13 00-0001)

26 11 13 00-0009 EA Reclosure Relay, Adjustable, 3 Shot, #179.....	1,272.79	176.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	104.48	
26 11 13 00-0010 EA Overcurrent Relay, 1 Phase, #51/51N.....	413.62	127.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.68	
26 11 13 00-0011 EA Directional Overcurrent Relay, Three-Phase, Device No. 67.....	614.79	127.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.83	
26 11 13 00-0012 EA Voltage Relay, Under Or Over- Voltage, Device No. 27 Or 59, Three-Phase.....	486.52	127.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.68	
26 11 13 00-0013 EA Differential Relay Package, Complete, Device No. 87.....	1,820.11	432.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	261.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0014 "Switchyard", Substation Transformer Section ^(26 11 13) Note: Standard NEMA design two winding three phase, 60 Hz. oil filled load tap changer 10% Range		
26 11 13 00-0015 14.4 KV Nominal Primary ^(26 11 13 00-0014)		
26 11 13 00-0016 EA 1,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	26,399.81	1,670.53
For 50 Hz Operation, Add	2,760.17	
For Forced Air Cooling, Add	2,760.17	
For External Control Panel, Add	690.04	
For Internally Mounted Current Transformers And Linear Couplers, Add	230.01	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,150.07	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	2,875.18	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	3,450.21	
26 11 13 00-0017 EA 2,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	30,215.63	2,093.08
For 50 Hz Operation, Add	3,116.12	
For Forced Air Cooling, Add	3,116.12	
For External Control Panel, Add	779.03	
For Internally Mounted Current Transformers And Linear Couplers, Add	259.68	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,298.38	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	3,245.96	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	3,895.15	
26 11 13 00-0018 EA 5,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	46,448.49	2,948.00
For 50 Hz Operation, Add	4,848.83	
For Forced Air Cooling, Add	4,848.83	
For External Control Panel, Add	1,212.21	
For Internally Mounted Current Transformers And Linear Couplers, Add	404.07	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,020.35	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	5,050.86	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	6,061.04	
26 11 13 00-0019 EA 7,500 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	67,174.08	3,519.37
For 50 Hz Operation, Add	7,149.99	
For Forced Air Cooling, Add	7,149.99	
For External Control Panel, Add	1,787.50	
For Internally Mounted Current Transformers And Linear Couplers, Add	595.83	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,979.16	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,447.91	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	8,937.49	
26 11 13 00-0020 EA 10,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	82,769.13	4,554.49
For 50 Hz Operation, Add	8,793.68	
For Forced Air Cooling, Add	8,793.68	
For External Control Panel, Add	2,198.42	
For Internally Mounted Current Transformers And Linear Couplers, Add	732.81	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,664.03	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	9,160.08	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	10,992.09	
26 11 13 00-0021 23 KV Nominal Primary ^(26 11 13 00-0014)		
26 11 13 00-0022 EA 1,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	29,550.13	2,260.14
For 50 Hz Operation, Add	3,036.26	
For External Control Panel, Add	759.06	
For Internally Mounted Current Transformers And Linear Couplers, Add	253.02	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,265.11	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	3,162.77	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	3,795.32	
For Forced Air Cooling, Add	2,024.17	
26 11 13 00-0023 EA 2,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	33,761.01	2,260.14
For 50 Hz Operation, Add	3,435.76	
For External Control Panel, Add	858.94	
For Internally Mounted Current Transformers And Linear Couplers, Add	286.31	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,431.57	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	3,578.92	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	4,294.70	
For Forced Air Cooling, Add	2,290.51	
26 11 13 00-0024 EA 5,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	54,052.36	3,341.06
For 50 Hz Operation, Add	5,670.67	
For External Control Panel, Add	1,417.67	
For Internally Mounted Current Transformers And Linear Couplers, Add	472.56	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,362.78	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	5,906.95	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	7,088.34	
For Forced Air Cooling, Add	3,780.45	
26 11 13 00-0025 EA 7,500 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	72,496.14	4,554.49
For 50 Hz Operation, Add	7,560.92	
For External Control Panel, Add	1,890.23	
For Internally Mounted Current Transformers And Linear Couplers, Add	630.08	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,150.38	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,875.96	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	9,451.15	
For Forced Air Cooling, Add	5,040.61	

26	Electrical
26 10	Medium-Voltage Electrical Distribution
26 11	Substations



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0026	EA		10,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	89,617.81	4,554.49
			<i>For 50 Hz Operation, Add</i>	9,615.52	
			<i>For External Control Panel, Add</i>	2,403.88	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	801.29	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	4,006.47	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	10,016.16	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	12,019.40	
			<i>For Forced Air Cooling, Add</i>	6,410.34	
26 11 13 00-0027			34.5 KV Nominal Primary <small>(26 11 13 00-0014)</small>		
26 11 13 00-0028	EA		1,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	37,090.22	2,702.33
			<i>For 50 Hz Operation, Add</i>	3,835.27	
			<i>For External Control Panel, Add</i>	958.82	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	319.61	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	1,598.03	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	3,995.07	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	4,794.09	
			<i>For Forced Air Cooling, Add</i>	2,556.85	
26 11 13 00-0029	EA		2,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	44,797.89	4,225.47
			<i>For 50 Hz Operation, Add</i>	4,634.28	
			<i>For External Control Panel, Add</i>	1,158.57	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	386.19	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	1,930.95	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	4,827.38	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	5,792.85	
			<i>For Forced Air Cooling, Add</i>	3,089.52	
26 11 13 00-0030	EA		5,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	61,915.71	4,225.47
			<i>For 50 Hz Operation, Add</i>	6,410.37	
			<i>For External Control Panel, Add</i>	1,602.59	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	534.20	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	2,670.99	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	6,677.47	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	8,012.96	
			<i>For Forced Air Cooling, Add</i>	4,273.58	
26 11 13 00-0031	EA		7,500 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	79,344.76	4,450.97
			<i>For 50 Hz Operation, Add</i>	8,382.75	
			<i>For External Control Panel, Add</i>	2,095.69	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	698.56	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	3,492.81	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	8,732.03	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	10,478.44	
			<i>For Forced Air Cooling, Add</i>	5,588.50	
26 11 13 00-0032	EA		10,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	136,790.93	5,693.10
			<i>For 50 Hz Operation, Add</i>	14,957.48	
			<i>For External Control Panel, Add</i>	3,739.37	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	1,246.46	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	6,232.28	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	15,580.71	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	18,696.85	
			<i>For Forced Air Cooling, Add</i>	9,971.65	
26 11 13 00-0033			46 KV Nominal Primary <small>(26 11 13 00-0014)</small>		
26 11 13 00-0034	EA		1,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	56,738.56	3,144.53
			<i>For 50 Hz Operation, Add</i>	6,067.16	
			<i>For External Control Panel, Add</i>	1,516.79	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	505.60	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	2,527.98	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	6,319.96	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	7,583.95	
			<i>For Forced Air Cooling, Add</i>	4,044.77	
26 11 13 00-0035	EA		2,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	64,117.06	3,144.53
			<i>For 50 Hz Operation, Add</i>	6,878.43	
			<i>For External Control Panel, Add</i>	1,719.61	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	573.20	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	2,866.01	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	7,165.04	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	8,598.04	
			<i>For Forced Air Cooling, Add</i>	4,585.62	
26 11 13 00-0036	EA		5,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	88,741.94	4,225.47
			<i>For 50 Hz Operation, Add</i>	9,629.52	
			<i>For External Control Panel, Add</i>	2,407.38	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	802.46	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	4,012.30	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	10,030.75	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	12,036.90	
			<i>For Forced Air Cooling, Add</i>	6,419.68	
26 11 13 00-0037	EA		7,500 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	108,570.23	5,693.10
			<i>For 50 Hz Operation, Add</i>	11,570.99	
			<i>For External Control Panel, Add</i>	2,892.75	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	964.25	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	4,821.25	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	12,053.12	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	14,463.74	
			<i>For Forced Air Cooling, Add</i>	7,714.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0038 EA 10,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	153,955.02 17,017.17 4,254.29 1,418.10 7,090.49 17,726.22 21,271.46 11,344.78	5,693.10
26 11 13 00-0039 69 KV Nominal Primary <small>(26 11 13 00-0014)</small>		
26 11 13 00-0040 EA 1,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	81,501.47 8,964.56 2,241.14 747.05 3,735.23 9,338.09 11,205.70 5,976.38	3,341.06
26 11 13 00-0041 EA 2,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	93,664.23 10,220.19 2,555.05 851.68 4,258.41 10,646.03 12,775.24 6,813.46	4,225.47
26 11 13 00-0042 EA 5,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	128,459.84 14,395.66 3,598.92 1,199.64 5,998.19 14,995.48 17,994.58 9,597.11	4,225.47
26 11 13 00-0043 EA 7,500 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	136,292.94 14,897.72 3,724.43 1,241.48 6,207.38 15,518.46 18,622.15 9,931.81	5,693.10
26 11 13 00-0044 EA 10,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	178,202.65 19,926.88 4,981.72 1,660.57 8,302.87 20,757.17 24,908.61 13,284.59	5,693.10
26 11 13 00-0045 Circuit Breakers Fluarc SF6 13.8 KV <small>(26 11 13)</small>		
26 11 13 00-0046 EA 1,200 Amp, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	48,648.07	813.13
26 11 13 00-0047 EA 1,200 Amp, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	53,399.95	813.13
26 11 13 00-0048 EA 1,200 Amp, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	60,810.84	1,010.04
26 11 13 00-0049 EA 2,000 Amp, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	56,907.43	1,214.52
26 11 13 00-0050 EA 2,000 Amp, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	64,086.16	1,214.52
26 11 13 00-0051 EA 2,000 Amp, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	73,116.86	1,411.00
26 11 13 00-0052 EA 3,000 Amp, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	75,401.26	1,612.07
26 11 13 00-0053 EA 3,000 Amp, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	84,339.18	1,612.07
26 11 13 00-0054 EA 3,000 Amp, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	88,418.48	1,810.37
26 11 16 Secondary Unit Substations <small>(26 11)</small>		
26 11 16 00-0001 Substation Primary Incoming Section <small>(26 11 16)</small>		
26 11 16 00-0002 Manual Transferring Fused Load Break Switches <small>(26 11 16 00-0001)</small> Note: 15 KV 600 Amp 3 pole 2 position floor mounted. Type, metal compartment includes weatherproofing, fuses, transformer throat, pothead terminations thru 500 MCM, with surge protection. Manual transferring of one line to an alternate incoming line.		
26 11 16 00-0003 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amp, 3 Pole, 2 Position	42,795.24	1,194.04
26 11 16 00-0004 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amp, 3 Pole, 2 Position	49,553.68	1,194.04
26 11 16 00-0005 Automatic Transferring Fused Load Break Switches <small>(26 11 16 00-0001)</small> Note: Items are equipped with 3 pole - 2 position selector switch for automatic transferring one line to an alternate incoming line.		
26 11 16 00-0006 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amp, 3 Pole, 2 Position Selector Switch	60,708.67	1,194.04
26 11 16 00-0007 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amp, 3 Pole, 2 Position Selector Switch	65,107.11	1,194.04
26 11 16 00-0008 Accessories For Substation Fused Load Break Switches <small>(26 11 16 00-0001)</small>		

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 11 Substations



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 00-0009 EA Primary Lightning Arrestors Accessories, Secondary Distribution Section	5,483.19	
26 11 16 00-0010 EA Key Interlock Accessories, Secondary Distribution Section	533.72	
26 11 16 00-0011 Oil Filled Substation Transformers <small>(26 11 16)</small> Note: 112-1/2 KVA thru 2500 KVA standard NEMA design 3 phase cover mounted manual tap changer, liquid level gauge with alarm contacts, thermometer with alarm contacts, pressure vacuum gauge, automatic control for auxiliary cooling equipment. Weatherproof.		
26 11 16 00-0012 Substation, Primary 13.8 KV Secondary 480Y/277 V Or 480 V 60 HZ <small>(26 11 16 00-0011)</small>		
26 11 16 00-0013 EA 75 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	10,539.50	737.00
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	634.59	
For Control Power Transformer On Fans And Auxiliary, Add	271.97	
For Internal Mounted Current Transformer And Linear Coupler, Add	90.66	
26 11 16 00-0014 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	15,309.33	884.40
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	947.84	
For Control Power Transformer On Fans And Auxiliary, Add	406.22	
For Internal Mounted Current Transformer And Linear Coupler, Add	135.41	
26 11 16 00-0015 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	17,311.93	982.66
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,074.26	
For Control Power Transformer On Fans And Auxiliary, Add	460.40	
For Internal Mounted Current Transformer And Linear Coupler, Add	153.47	
26 11 16 00-0016 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	20,540.92	1,228.33
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,265.90	
For Control Power Transformer On Fans And Auxiliary, Add	542.53	
For Internal Mounted Current Transformer And Linear Coupler, Add	180.84	
26 11 16 00-0017 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	23,032.26	1,523.14
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,399.02	
For Control Power Transformer On Fans And Auxiliary, Add	599.58	
For Internal Mounted Current Transformer And Linear Coupler, Add	199.86	
26 11 16 00-0018 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	24,831.80	1,867.07
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,476.84	
For Control Power Transformer On Fans And Auxiliary, Add	632.93	
For Internal Mounted Current Transformer And Linear Coupler, Add	210.98	
26 11 16 00-0019 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	29,127.20	982.66
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,722.49	
For Control Power Transformer On Fans And Auxiliary, Add	738.21	
For Internal Mounted Current Transformer And Linear Coupler, Add	246.07	
26 11 16 00-0020 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	31,076.24	2,456.67
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,831.40	
For Control Power Transformer On Fans And Auxiliary, Add	784.89	
For Internal Mounted Current Transformer And Linear Coupler, Add	261.63	
26 11 16 00-0021 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	34,689.60	2,702.33
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,049.95	
For Control Power Transformer On Fans And Auxiliary, Add	878.55	
For Internal Mounted Current Transformer And Linear Coupler, Add	292.85	
26 11 16 00-0022 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	40,010.92	2,997.13
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,381.17	
For Control Power Transformer On Fans And Auxiliary, Add	1,020.50	
For Internal Mounted Current Transformer And Linear Coupler, Add	340.17	
26 11 16 00-0023 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	43,915.11	3,267.37
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,616.63	
For Control Power Transformer On Fans And Auxiliary, Add	1,121.41	
For Internal Mounted Current Transformer And Linear Coupler, Add	373.80	
26 11 16 00-0024 Substation, Primary 13.8 KV Secondary 208Y/120 V 60 HZ <small>(26 11 16 00-0011)</small>		
26 11 16 00-0025 EA 75 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	10,087.24	737.00
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	602.93	
For Control Power Transformer On Fans And Auxiliary, Add	258.40	
For Internal Mounted Current Transformer And Linear Coupler, Add	86.13	
26 11 16 00-0026 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	14,867.88	737.00
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	937.57	
For Control Power Transformer On Fans And Auxiliary, Add	401.82	
For Internal Mounted Current Transformer And Linear Coupler, Add	133.94	
26 11 16 00-0027 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	17,301.92	982.66
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,073.56	
For Control Power Transformer On Fans And Auxiliary, Add	460.10	
For Internal Mounted Current Transformer And Linear Coupler, Add	153.37	
26 11 16 00-0028 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	20,558.14	1,228.33
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,267.10	
For Control Power Transformer On Fans And Auxiliary, Add	543.04	
For Internal Mounted Current Transformer And Linear Coupler, Add	181.01	
26 11 16 00-0029 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	24,789.66	1,523.14
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,522.04	
For Control Power Transformer On Fans And Auxiliary, Add	652.30	
For Internal Mounted Current Transformer And Linear Coupler, Add	217.43	
26 11 16 00-0030 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	27,020.08	1,867.07
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,630.02	
For Control Power Transformer On Fans And Auxiliary, Add	698.58	
For Internal Mounted Current Transformer And Linear Coupler, Add	232.86	
26 11 16 00-0031 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	30,137.67	2,260.14
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,793.22	
For Control Power Transformer On Fans And Auxiliary, Add	768.52	
For Internal Mounted Current Transformer And Linear Coupler, Add	256.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 00-0032 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	32,816.86 1,953.25 837.11 279.04	2,456.67
26 11 16 00-0033 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	36,940.48 2,207.51 946.07 315.36	2,702.33
26 11 16 00-0034 Accessories For Oil Filled Substation Transformers (26 11 16 00-0011)		
26 11 16 00-0035 EA Sudden Pressure Relay	2,747.72	
26 11 16 00-0036 EA Throats Or Flanges (HV Or LV)	5,455.15	
26 11 16 00-0037 EA Lightning Arrestors (3 - 1 Pole)	3,592.01	
26 11 16 00-0038 EA Single Feeder Switch With Fuses 3 Pole, 2 Position, Open-Close Close) Fuse Type - CLE (80E To 125 X).....	19,933.84	
26 11 16 00-0039 EA Oil Fuse Cutout, 15 KV, 200 Amp, Free Standing Air Filled Terminal Compartment, 15 KV - 200 Amp Cutout	18,650.09	
26 11 16 00-0040 Reinforced Concrete Curb With 6" Slab (26 11 16 00-0011)		
Note: For transformer liquid containment area.		
26 11 16 00-0041 EA 112.5 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,513.06	1,055.63
26 11 16 00-0042 EA 150 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,513.06	1,055.63
26 11 16 00-0043 EA 225 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,513.06	1,055.63
26 11 16 00-0044 EA 300 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,513.06	1,055.63
26 11 16 00-0045 EA 500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,513.06	1,055.63
26 11 16 00-0046 EA 750 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,513.06	1,055.63
26 11 16 00-0047 EA 1,000 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,513.06	1,055.63
26 11 16 00-0048 EA 1,500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	4,090.46	1,217.17
26 11 16 00-0049 Dry Type Substation Transformer (26 11 16)		
Note: Standard NEMA design 3 phase - 150 C rise - 60 Hz self-cooled, ventilated.		
26 11 16 00-0050 Primary 4.16 Or 4.8 KV Secondary 208 Y/120 Or 240 V (26 11 16 00-0049)		
Note: Primary 4.160 or 4.8 KV (delta or wye).		
26 11 16 00-0051 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	17,936.22	786.14
<i>For Gas Filled Transformers, Add</i>		9,818.38
<i>For Single Phase Transformers, Deduct</i>		-409.10
<i>For Dry Type Unit, Add</i>		3,757.30
26 11 16 00-0052 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	18,034.49	835.27
<i>For Gas Filled Transformers, Add</i>		9,818.38
<i>For Single Phase Transformers, Deduct</i>		-409.10
<i>For Dry Type Unit, Add</i>		3,767.12
26 11 16 00-0053 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	18,542.45	982.66
<i>For Gas Filled Transformers, Add</i>		9,946.27
<i>For Single Phase Transformers, Deduct</i>		-414.43
<i>For Dry Type Unit, Add</i>		3,843.50
26 11 16 00-0054 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	20,462.66	1,080.93
<i>For Gas Filled Transformers, Add</i>		10,980.47
<i>For Single Phase Transformers, Deduct</i>		-457.52
<i>For Dry Type Unit, Add</i>		4,242.36
26 11 16 00-0055 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	22,782.48	1,277.46
<i>For Gas Filled Transformers, Add</i>		12,136.52
<i>For Single Phase Transformers, Deduct</i>		-505.69
<i>For Dry Type Unit, Add</i>		4,705.55
26 11 16 00-0056 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	26,389.59	1,474.00
<i>For Gas Filled Transformers, Add</i>		14,064.95
<i>For Single Phase Transformers, Deduct</i>		-586.04
<i>For Dry Type Unit, Add</i>		5,451.95
26 11 16 00-0057 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	30,691.71	1,768.80
<i>For Gas Filled Transformers, Add</i>		16,292.47
<i>For Single Phase Transformers, Deduct</i>		-678.85
<i>For Dry Type Unit, Add</i>		6,327.66
26 11 16 00-0058 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	36,163.48	1,965.33
<i>For Gas Filled Transformers, Add</i>		19,339.69
<i>For Single Phase Transformers, Deduct</i>		-805.82
<i>For Dry Type Unit, Add</i>		7,484.29
26 11 16 00-0059 EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	46,421.75	2,063.60
<i>For Gas Filled Transformers, Add</i>		25,376.73
<i>For Single Phase Transformers, Deduct</i>		-1,057.36
<i>For Dry Type Unit, Add</i>		9,717.52
26 11 16 00-0060 Primary 4.16 Or 4.8 KV Secondary 480 Y/277 Or 480 V (26 11 16 00-0049)		
Note: Primary 4.16 or 4.8 KV (delta or wye).		
26 11 16 00-0061 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	17,355.51	786.14
<i>For Gas Filled Transformers, Add</i>		9,469.95
<i>For Single Phase Transformers, Deduct</i>		-394.58
<i>For Dry Type Unit, Add</i>		3,629.54
26 11 16 00-0062 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	18,034.49	835.27
<i>For Gas Filled Transformers, Add</i>		9,818.38
<i>For Single Phase Transformers, Deduct</i>		-409.10
<i>For Dry Type Unit, Add</i>		3,767.12

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 11 Substations



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 00-0063 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	18,542.45 9,946.27 -414.43 3,843.50	982.66
26 11 16 00-0064 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	20,462.66 10,980.47 -457.52 4,242.36	1,080.93
26 11 16 00-0065 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	22,782.48 12,136.52 -505.69 4,705.55	1,277.46
26 11 16 00-0066 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	26,389.59 14,064.95 -586.04 5,451.95	1,474.00
26 11 16 00-0067 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	30,691.71 16,292.47 -678.85 6,327.66	1,768.80
26 11 16 00-0068 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	36,163.48 19,339.69 -805.82 7,484.29	1,965.33
26 11 16 00-0069 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	46,421.75 25,376.73 -1,057.36 9,717.52	2,063.60
26 11 16 00-0070 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	50,857.82 27,920.45 -1,163.35 10,669.87	2,161.87
26 11 16 00-0071 EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	56,621.45 31,260.71 -1,302.53 11,914.29	2,260.14
26 11 16 00-0072 EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	65,035.21 36,191.05 -1,507.96 13,741.73	2,358.40
26 11 16 00-0073 Primary 13.8 KV (Delta Or Wye) Secondary 208 Y/120 V Or 240 V <small>(26 11 16 00-0049)</small>		
26 11 16 00-0074 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	19,334.47 10,539.40 -439.14 4,041.33	884.40
26 11 16 00-0075 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	20,010.09 10,885.81 -453.58 4,178.17	933.53
26 11 16 00-0076 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	21,488.13 11,595.76 -483.16 4,467.96	1,080.93
26 11 16 00-0077 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	22,725.24 12,220.10 -509.17 4,716.54	1,179.20
26 11 16 00-0078 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	25,944.66 13,915.91 -579.83 5,377.65	1,375.73
26 11 16 00-0079 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	28,799.87 15,393.20 -641.38 5,958.63	1,572.26
26 11 16 00-0080 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	33,660.88 17,956.05 -748.17 6,957.30	1,867.07
26 11 16 00-0081 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	40,591.15 21,878.37 -911.60 8,434.79	2,063.60
26 11 16 00-0082 EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	48,729.66 26,643.55 -1,110.15 10,201.68	2,161.87

26 11 16 00-0083 Primary 13.8 KV (Delta Or Wye) Secondary 480 Y/277 V Or 480 V (26 11 16 00-0049)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 00-0084 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	19,334.47	884.40
For Gas Filled Transformers, Add	10,539.40	
For Single Phase Transformers, Deduct	-439.14	
For Dry Type Unit, Add	4,041.33	
26 11 16 00-0085 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	20,010.09	933.53
For Gas Filled Transformers, Add	10,885.81	
For Single Phase Transformers, Deduct	-453.58	
For Dry Type Unit, Add	4,178.17	
26 11 16 00-0086 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	21,488.13	1,080.93
For Gas Filled Transformers, Add	11,595.76	
For Single Phase Transformers, Deduct	-483.16	
For Dry Type Unit, Add	4,467.96	
26 11 16 00-0087 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	22,725.24	1,179.20
For Gas Filled Transformers, Add	12,220.10	
For Single Phase Transformers, Deduct	-509.17	
For Dry Type Unit, Add	4,716.54	
26 11 16 00-0088 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	25,944.66	1,375.73
For Gas Filled Transformers, Add	13,915.91	
For Single Phase Transformers, Deduct	-579.83	
For Dry Type Unit, Add	5,377.65	
26 11 16 00-0089 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	25,443.16	1,572.26
For Gas Filled Transformers, Add	13,379.18	
For Single Phase Transformers, Deduct	-557.47	
For Dry Type Unit, Add	5,220.15	
26 11 16 00-0090 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	26,764.89	1,867.07
For Gas Filled Transformers, Add	13,818.46	
For Single Phase Transformers, Deduct	-575.77	
For Dry Type Unit, Add	5,440.18	
26 11 16 00-0091 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	32,690.32	2,063.60
For Gas Filled Transformers, Add	17,137.87	
For Single Phase Transformers, Deduct	-714.08	
For Dry Type Unit, Add	6,696.61	
26 11 16 00-0092 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	38,489.15	2,161.87
For Gas Filled Transformers, Add	20,499.25	
For Single Phase Transformers, Deduct	-854.14	
For Dry Type Unit, Add	7,948.76	
26 11 16 00-0093 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	42,873.80	2,260.14
For Gas Filled Transformers, Add	23,012.12	
For Single Phase Transformers, Deduct	-958.84	
For Dry Type Unit, Add	8,889.80	
26 11 16 00-0094 EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	50,047.93	2,358.40
For Gas Filled Transformers, Add	27,198.68	
For Single Phase Transformers, Deduct	-1,133.28	
For Dry Type Unit, Add	10,444.53	
26 11 16 00-0095 EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	60,951.75	2,456.67
For Gas Filled Transformers, Add	33,623.05	
For Single Phase Transformers, Deduct	-1,400.96	
For Dry Type Unit, Add	12,819.79	
26 11 16 00-0096 Substation Secondary Distribution Section <small>(26 11 16)</small>		
Note: Low voltage drawout switchgear 277/480 volt, 3 phase 4 wire.		
26 11 16 00-0097 Switchgear Compartment Complete With Air Circuit Breaker <small>(26 11 16 00-0096)</small>		
Note: With solid state long - time and instantaneous trips.		
26 11 16 00-0098 EA 800 Amp, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-206.....	12,192.22	848.33
26 11 16 00-0099 EA 1,600 Amp, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-416.....	19,316.50	1,282.60
26 11 16 00-0100 EA 2,000 Amp, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-420.....	26,158.22	1,575.48
26 11 16 00-0101 EA 3,200 Amp, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-632.....	43,317.26	1,827.96
26 11 16 00-0102 EA 4,000 Amp, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-840.....	55,638.68	2,080.44
26 11 16 00-0103 Switchgear Compartment Without Circuit Breaker <small>(26 11 16 00-0096)</small>		
26 11 16 00-0104 EA 800 Amp, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	5,399.57	257.53
26 11 16 00-0105 EA 1,600 Amp, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	6,239.18	257.53
26 11 16 00-0106 EA 2,000 Amp, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	8,162.30	378.72
26 11 16 00-0107 EA 3,200 Amp, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	11,644.93	378.72
26 11 16 00-0108 EA 4,000 Amp, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	19,421.72	555.46
26 11 16 00-0109 Switchgear Compartment, Blank, Use As Filler Or Metering <small>(26 11 16 00-0096)</small>		
Note: No provisions for future breaker.		
26 11 16 00-0110 EA 600 Thru 2,000 Amp, Blank Section Filler, Secondary Distribution Section.....	2,450.18	287.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	164.58	
26 11 16 00-0111 EA 3,000 Amp, Blank Section Filler, Secondary Distribution Section.....	3,050.77	287.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	193.20	
26 11 16 00-0112 EA 4,000 Amp, Blank Section Filler, Secondary Distribution Section.....	4,012.26	444.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	277.73	
26 11 16 00-0113 Accessories For Substation Secondary Distribution <small>(26 11 16 00-0096)</small>		
26 11 16 00-0114 EA Short Time Delay Accessories, Secondary Distribution Section.....	1,287.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.94	

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 11 Substations



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 00-0115	EA		Key Interlock Accessories, Secondary Distribution Section.....	1,020.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>52.94</i>	
26 11 16 00-0116	EA		Ammeter And Switch Complete Accessories, Secondary Distribution Section.....	3,049.84	88.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>52.94</i>	
26 11 16 00-0117	EA		Voltmeter And Switch Complete Accessories, Secondary Distribution Section.....	3,049.84	88.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>52.94</i>	
26 11 16 00-0118	EA		Wattmeter - Complete Accessories, Secondary Distribution Section.....	4,006.52	88.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>52.94</i>	
26 11 16 00-0119	EA		Watt-hour Meter - Complete Accessories, Secondary Distribution Section.....	5,164.61	88.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>52.94</i>	
26 11 16 00-0120	EA		Circuit Breaker Lifting Device Accessories, Secondary Distribution Section.....	2,297.35	100.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>60.32</i>	
26 11 16 00-0121	EA		Weatherproofing, Per Vertical Section Accessories, Secondary Distribution Section.....	8,137.79	1,489.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>893.53</i>	
26 11 16 00-0122	EA		Current Transformer, Single Section 5 To 800 Single Secondary 5 To 800.....	1,428.52	88.22
26 11 16 00-0123	EA		Potential Transformers Each With Fuses Accessories, Secondary Distribution Section.....	1,662.94	88.22
26 11 16 00-0124	EA		Shunt Trip And Auxiliary Switch Accessories, Secondary Distribution Section.....	885.45	44.11
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>26.47</i>	
26 11 16 00-0125	EA		3 Current Limiting Fuses 15 KV Accessories, Secondary Distribution Section.....	6,465.36	88.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>52.94</i>	
26 11 16 00-0126	EA		3 Phase Surge Capacitors 15 KV Accessories, Secondary Distribution Section.....	845.17	44.11

26 12 Medium-Voltage Transformers ^(26 10)

26 12 13 Liquid-Filled, Medium-Voltage Transformers ^(26 12)

26 12 13 00-0001 Removal And Relocation Of Transformers ^(26 12 13)

26 12 13 00-0002	EA		Removal And Relocation Of Up To 37.5 KVA Oil Filled Transformer.....	1,005.77	
26 12 13 00-0003	EA		Removal And Relocation Of >37.5 To 100 KVA Oil Filled Transformers.....	1,850.89	

26 12 13 00-0004 Single Phase Oil Filled Distribution Transformers ^(26 12 13)

Note: Self-protected type, CSP, external secondary breaker handle, external tap changer.

26 12 13 00-0005 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 4-2.5 Percent

Taps FCBN, Class A, 95 KV BIL. Rated To 5 KVA ^(26 12 13 00-0004)

26 12 13 00-0006	EA		10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	1,554.62	403.79
26 12 13 00-0007	EA		15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	1,896.70	504.73
26 12 13 00-0008	EA		25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	2,233.39	605.68
26 12 13 00-0009	EA		37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	2,851.40	757.10
26 12 13 00-0010	EA		50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	3,398.91	908.52
26 12 13 00-0011	EA		75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	4,403.44	1,059.95
26 12 13 00-0012	EA		100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	5,228.61	1,261.84

26 12 13 00-0013 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 2-2.5 Percent

Taps FCAN And FCBN. Rated To 5 KVA ^(26 12 13 00-0004)

26 12 13 00-0014	EA		10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,554.62	403.79
26 12 13 00-0015	EA		15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,917.22	504.73
26 12 13 00-0016	EA		25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,233.39	605.68
26 12 13 00-0017	EA		37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,851.40	757.10
26 12 13 00-0018	EA		50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,398.91	908.52
26 12 13 00-0019	EA		75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,192.58	1,059.95
26 12 13 00-0020	EA		100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,121.53	1,261.84

26 12 13 00-0021 Primary 13.8/14.4 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps

FCBN And FCAN ^(26 12 13 00-0004)

26 12 13 00-0022	EA		10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,530.69	403.79
26 12 13 00-0023	EA		15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,831.74	504.73
26 12 13 00-0024	EA		25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,169.14	605.68
26 12 13 00-0025	EA		37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,836.57	757.10
26 12 13 00-0026	EA		50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,336.31	908.52
26 12 13 00-0027	EA		75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,232.12	1,059.95
26 12 13 00-0028	EA		100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,131.41	1,261.84

26 12 13 00-0029 Primary 13.8/14.4 KV Ground Y Secondary 240/480 Volt, 2-2.5 Percent

Taps FCBN And FCAN ^(26 12 13 00-0004)

26 12 13 00-0030	EA		10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,641.81	403.79
26 12 13 00-0031	EA		15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,946.28	504.73
26 12 13 00-0032	EA		25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,469.21	605.68
26 12 13 00-0033	EA		37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,103.69	757.10
26 12 13 00-0034	EA		50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,635.75	908.52
26 12 13 00-0035	EA		75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,674.97	1,059.95
26 12 13 00-0036	EA		100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,846.33	1,261.84

26 12 13 00-0037 Transformer Platforms ^(26 12 13 00-0004)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 13 00-0038 EA Transformer Platforms, 75 - 167 KVA.....	3,410.20	681.89
26 12 13 00-0039 Primary 24.9 KV, Ground Y Secondary 240/480 Volt, 2-2.5 Percent Tops FCBN Auto FCAN <small>(26 12 13 00-0004)</small>		
26 12 13 00-0040 EA 10 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,743.14	403.79
26 12 13 00-0041 EA 15 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,038.28	504.73
26 12 13 00-0042 EA 25 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,470.19	605.68
26 12 13 00-0043 EA 37.5 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,102.50	757.10
26 12 13 00-0044 EA 50 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,736.28	959.00
26 12 13 00-0045 EA 75 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,677.93	1,059.95
26 12 13 00-0046 EA 100 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,846.33	1,261.84
26 12 13 00-0047 EA 167 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,703.00	1,615.15
26 12 13 00-0048 EA 250 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,025.61	2,170.36
26 12 13 00-0049 EA 333 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	11,714.43	2,523.67
26 12 13 00-0050 EA 500 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	14,107.46	2,725.56
26 12 13 00-0051 Primary 4.8 KV Ground Y Secondary 120/240V 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL <small>(26 12 13 00-0004)</small>		
26 12 13 00-0052 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	1,554.62	494.44
26 12 13 00-0053 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	1,896.70	617.99
26 12 13 00-0054 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	2,232.98	740.85
26 12 13 00-0055 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	2,852.37	928.41
26 12 13 00-0056 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	3,397.98	1,112.13
26 12 13 00-0057 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	4,402.16	1,295.25
26 12 13 00-0058 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	5,228.61	1,545.10
26 12 13 00-0059 Primary 4.8 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCAN And FCBN <small>(26 12 13 00-0004)</small>		
26 12 13 00-0060 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,554.62	494.44
26 12 13 00-0061 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,917.22	617.99
26 12 13 00-0062 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,232.98	740.85
26 12 13 00-0063 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,852.37	928.41
26 12 13 00-0064 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,397.98	1,112.13
26 12 13 00-0065 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,191.30	1,295.25
26 12 13 00-0066 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,121.53	1,545.10
26 12 13 00-0067 Primary 7.2 To 14.4 KV Ground Y <small>(26 12 13 00-0004)</small>		
26 12 13 00-0068 Primary 7.2 To 14.4 KV Ground Y Secondary 120 / 240 V 2-2.5 Percent Taps FCBN And FCAN <small>(26 12 13 00-0067)</small>		
26 12 13 00-0069 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,374.82	403.79
26 12 13 00-0070 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,676.18	504.73
26 12 13 00-0071 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,971.49	605.68
26 12 13 00-0072 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,526.53	757.10
26 12 13 00-0073 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,098.66	908.52
26 12 13 00-0074 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,291.39	1,059.95
26 12 13 00-0075 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,010.23	1,261.84
26 12 13 00-0076 Primary 7.2 To 14.4 KV Ground Y Secondary 240 / 480 V 2-2.5 Pct Taps FCBN And FCAN <small>(26 12 13 00-0067)</small>		
26 12 13 00-0077 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,320.42	403.79
26 12 13 00-0078 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,607.80	504.73
26 12 13 00-0079 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,940.41	605.68
26 12 13 00-0080 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,464.37	757.10
26 12 13 00-0081 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,013.18	908.52
26 12 13 00-0082 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,980.57	1,059.95
26 12 13 00-0083 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,699.41	1,261.84
26 12 13 00-0084 3 Phase Oil Filled Distribution Transformers <small>(26 12 13)</small>		
26 12 13 00-0085 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt <small>(26 12 13 00-0084)</small>		
<small>Note: 4-2.5 Percent taps FCBN, Class A, 95 KV BIL.</small>		
26 12 13 00-0086 EA 112.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	5,565.30	1,413.26
26 12 13 00-0087 EA 150 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	6,552.57	1,514.21
26 12 13 00-0088 EA 225 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	8,548.29	1,917.99
26 12 13 00-0089 EA 300 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	11,027.85	2,422.72
26 12 13 00-0090 EA 500 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	14,875.75	2,725.56
26 12 13 00-0091 EA 750 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	21,848.14	3,634.09
26 12 16 Dry-Type, Medium-Voltage Transformers <small>(26 12)</small>		
26 12 16 00-0001 Removal and Relocation of Transformers <small>(26 12 16)</small>		
26 12 16 00-0002 EA Removal And Relocation Of Up To 37.5 KVA "Dry Type" Transformer	407.80	

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 12 Medium-Voltage Transformers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 16 00-0003	EA	Removal And Relocation Of >37.5 To 112.5 KVA "Dry Type" Transformer	1,812.47	
26 12 19 Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers (26 12)				
26 12 19 00-0001		Single Phase Pad Mounted Distribution Transformers (26 12 19) Note: Designed for residential and multi-family buildings. UL listed.		
26 12 19 00-0002		Mini Pak - Single Phase KVA 25 Thru 167 - 95 KV BIL.- Oil Filled (26 12 19 00-0001) Note: Self actuating pressure relief device, taps, 4-1/2 % below or 2-1/2 % above and below. Designed for loop feed grounded wye distribution system.		
26 12 19 00-0003		Primary, 4.16/4.8 KV Ground Y Or Delta (26 12 19 00-0002) Note: 2.4 To 24.94 KV ground Y / 14.4 KV secondary - 240/120 Volt, 480/240 Volt, 277 V. Rated to 5 KVA.		
26 12 19 00-0004	EA	25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	2,917.42	491.34
26 12 19 00-0005	EA	37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,260.55	589.60
26 12 19 00-0006	EA	50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,863.28	687.87
26 12 19 00-0007	EA	75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,601.06	737.00
26 12 19 00-0008	EA	100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,144.13	786.14
26 12 19 00-0009	EA	167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	6,736.57	1,031.80
26 12 19 00-0010 Factory Modifications Material Cost Only (26 12 19 00-0002)				
26 12 19 00-0011	EA	Loadbreaker Current Limiting Fuse Factory Modifications	463.27	
26 12 19 00-0012	EA	Loadbreaker Oil Switch, 2 Position Factory Modifications	486.77	
26 12 19 00-0013	EA	Loadbreaker Inserts, Factory Modifications	535.44	
26 12 19 00-0014 Distribution - Single Phase Multiple Building Transformer (26 12 19 00-0001)				
Note: KVA 25 to 250, KVA BIL-95, 125, 150 standard features. Oil filled, self-actuating pressure relief device, lighting arrester mounted. Pad HV/LV barrier, etc. with taps 4-1/2 % below or 2-1/2 % above and below.				
26 12 19 00-0015 Primary, 4.16/4.8 KVA Ground Y Or Delta (26 12 19 00-0014)				
Note: 2.4 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.				
26 12 19 00-0016	EA	25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,403.97	491.34
26 12 19 00-0017	EA	37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,907.75	491.34
26 12 19 00-0018	EA	50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,277.33	673.13
26 12 19 00-0019	EA	75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,213.50	673.13
26 12 19 00-0020	EA	100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,831.04	884.40
26 12 19 00-0021	EA	167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	7,058.41	884.40
26 12 19 00-0022	EA	250 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	10,838.56	1,228.33
26 12 19 00-0023 Factory Modifications Material Cost Only (26 12 19 00-0014)				
26 12 19 00-0024	EA	Loadbreaker Current Limiting Fuse Factory Modifications	617.69	
26 12 19 00-0025	EA	Lightning Arrestors, Factory Modifications	156.51	
26 12 19 00-0026	EA	Loadbreaker Oil Switch, 2 Position Factory Modifications	486.77	
26 12 19 00-0027	EA	Loop Feed Air Switch, Factory Modifications	792.26	
26 12 19 00-0028	EA	Loadbreaker Inserts (Two), Factory Modifications	211.49	
26 12 19 00-0029	EA	Bay-O-Net Fuse 25 Thru 167 KVA Factory Modifications	182.96	
26 12 19 00-0030 Primary, 12.47 KV Ground Y Or Delta (26 12 19 00-0014)				
Note: 7.2 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.				
26 12 19 00-0031	EA	25 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,631.63	491.34
26 12 19 00-0032	EA	37.5 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,983.39	491.34
26 12 19 00-0033	EA	50 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,247.55	673.13
26 12 19 00-0034	EA	75 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,031.15	673.13
26 12 19 00-0035	EA	100 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	6,208.90	884.40
26 12 19 00-0036	EA	167 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	7,724.21	884.50
26 12 19 00-0037	EA	250 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	9,775.71	1,228.33



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0038				Oil Filled Distribution Transformer Single Phase Cluster Mounted <small>(26 12 19 00-0001)</small> Note: Conventional type.		
26 12 19 00-0039				13.8/14.4 KV Ground Y Or Delta Primary 120/240V <small>(26 12 19 00-0038)</small> Note: 2.5 Taps FCBN and FCAN.		
26 12 19 00-0040	EA			10 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,489.42	341.16
26 12 19 00-0041	EA			37.5 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,164.67	479.76
26 12 19 00-0042	EA			50 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,777.50	767.61
26 12 19 00-0043	EA			100 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	8,102.40	767.61
26 12 19 00-0044	EA			167 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	11,029.93	1,258.01
26 12 19 00-0045	EA			250 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	14,428.83	1,258.01
26 12 19 00-0046				Oil Filled Distribution Transformer Single Phase <small>(26 12 19 00-0001)</small>		
26 12 19 00-0047				7.2 KV Primary, 120/240 Volt Secondary <small>(26 12 19 00-0046)</small>		
26 12 19 00-0048	EA			10 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,428.81	362.47
26 12 19 00-0049	EA			15 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,658.85	362.47
26 12 19 00-0050	EA			25 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,102.40	511.73
26 12 19 00-0051	EA			37.5 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,058.24	511.73
26 12 19 00-0052	EA			50 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,681.67	692.97
26 12 19 00-0053	EA			100 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	7,947.61	1,066.11
26 12 19 00-0054	EA			167 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	10,908.71	1,066.11
26 12 19 00-0055	EA			250 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	14,241.71	1,332.64
26 12 19 00-0056				7.2 KV Primary, 240/480 Volt Secondary <small>(26 12 19 00-0046)</small>		
26 12 19 00-0057	EA			10 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,428.81	362.47
26 12 19 00-0058	EA			15 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,658.91	362.47
26 12 19 00-0059	EA			25 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,102.40	511.73
26 12 19 00-0060	EA			37.5 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,058.24	511.73
26 12 19 00-0061	EA			50 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,681.67	692.97
26 12 19 00-0062	EA			75 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	7,044.01	938.18
26 12 19 00-0063	EA			100 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	7,947.61	938.18
26 12 19 00-0064	EA			167 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	10,908.71	1,183.39
26 12 19 00-0065	EA			250 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	14,241.71	1,332.64
26 12 19 00-0066				2.4 KV Primary, 277 Volt Secondary <small>(26 12 19 00-0046)</small>		
26 12 19 00-0067	EA			10 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,619.02	362.47
26 12 19 00-0068	EA			15 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,866.14	362.47
26 12 19 00-0069	EA			25 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,348.17	511.73
26 12 19 00-0070	EA			37.5 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,372.19	511.73
26 12 19 00-0071	EA			50 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	5,041.09	692.97
26 12 19 00-0072	EA			75 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	7,463.54	938.18
26 12 19 00-0073	EA			100 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	8,612.31	938.18
26 12 19 00-0074	EA			167 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	11,841.68	1,183.39
26 12 19 00-0075	EA			250 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	15,506.46	1,332.64
26 12 19 00-0076				2.4 KV Primary, 120/240 Volt Secondary <small>(26 12 19 00-0046)</small>		
26 12 19 00-0077	EA			10 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,428.81	362.47
26 12 19 00-0078	EA			15 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,658.85	362.47
26 12 19 00-0079	EA			25 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,102.40	696.28
26 12 19 00-0080	EA			37.5 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,058.24	938.18
26 12 19 00-0081	EA			50 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,681.67	692.97
26 12 19 00-0082	EA			75 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	6,896.18	938.18
26 12 19 00-0083	EA			100 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	7,946.36	938.18
26 12 19 00-0084				2.4 KV Primary, 240/480 Volt Secondary <small>(26 12 19 00-0046)</small>		
26 12 19 00-0085	EA			10 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,428.81	362.47
26 12 19 00-0086	EA			15 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,658.85	362.47
26 12 19 00-0087	EA			25 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,102.40	511.73
26 12 19 00-0088	EA			37.5 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,058.24	511.73
26 12 19 00-0089	EA			50 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,681.67	692.97
26 12 19 00-0090	EA			75 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	6,896.18	938.18
26 12 19 00-0091	EA			100 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	7,946.36	938.18
26 12 19 00-0092				2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary <small>(26 12 19 00-0046)</small>		
26 12 19 00-0093	EA			10 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,133.02	373.14
26 12 19 00-0094	EA			15 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,324.68	415.78
26 12 19 00-0095	EA			25 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,780.07	458.43
26 12 19 00-0096	EA			37 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,602.87	639.66
26 12 19 00-0097	EA			50 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,051.56	746.28
26 12 19 00-0098	EA			75 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	5,415.52	874.22
26 12 19 00-0099	EA			100 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	6,451.25	1,002.15
26 12 19 00-0100	EA			167 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	9,751.47	1,279.34
26 12 19 00-0101	EA			250 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	13,073.28	1,439.26

26	Electrical
26 10	Medium-Voltage Electrical Distribution
26 12	Medium-Voltage Transformers



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 13 Medium-Voltage Switchgear ^(26 10)

26 13 16 Medium-Voltage Fusible Interrupter Switchgear ^(26 13)

26 13 16 00-0001	"Switchyard", Substation Secondary Distribution Section ^(26 13 16) Note: Medium voltage, metal clad switchgear, 3 phase, 3 wire with ground. Includes breaker element, housing, control switch two lamps - 3 cable terminals.		
26 13 16 00-0002	4.16 Or 4.8 KV Switchgear Sections ^(26 13 16 00-0001) Note: Includes air circuit breaker.		
26 13 16 00-0003	EA 1,200 Amp, 75 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	10,744.57 2,208.33	1,108.76
26 13 16 00-0004	EA 1,200 Amp, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	11,265.51 2,322.94	1,108.76
26 13 16 00-0005	EA 1,200 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	15,308.46 3,180.82	1,412.60
26 13 16 00-0006	EA 2,000 Amp, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	20,792.32 4,363.50	1,412.60
26 13 16 00-0007	EA 2,000 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	29,704.63 6,295.83	1,705.78
26 13 16 00-0008	EA 3,000 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	27,159.53 5,723.82	1,705.78
26 13 16 00-0009	7.2 KV Switchgear Sections ^(26 13 16 00-0001) Note: Includes air circuit breaker.		
26 13 16 00-0010	EA 1,200 Amp, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	15,939.57 3,335.15	1,279.34
26 13 16 00-0011	EA 2,000 Amp, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	19,594.25 4,086.63	1,599.17
26 13 16 00-0012	EA 3,000 Amp, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	27,468.10 5,781.13	1,919.00
26 13 16 00-0013	13.8 KV Switchgear Sections ^(26 13 16 00-0001) Note: Includes air circuit breaker.		
26 13 16 00-0014	EA 1,200 Amp, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	15,403.49 3,203.13	1,279.34
26 13 16 00-0015	EA 1,200 Amp, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	21,145.28 4,435.65	1,279.34
26 13 16 00-0016	EA 1,200 Amp, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	30,788.70 6,522.24	1,705.78
26 13 16 00-0017	EA 2,000 Amp, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	19,383.09 4,027.37	1,705.78
26 13 16 00-0018	EA 2,000 Amp, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	28,028.01 5,898.68	2,132.23
26 13 16 00-0019	EA 2,000 Amp, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	39,106.32 8,303.68	2,132.23
26 13 16 00-0020	EA 3,000 Amp, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	27,014.53 5,666.80	2,132.23
26 13 16 00-0021	EA 3,000 Amp, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	37,341.04 7,907.92	2,132.23
26 13 16 00-0022	EA 3,000 Amp, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	48,305.23 10,290.99	2,132.23
26 13 16 00-0023	4.16 Or 4.8 KV Switchgear Section ^(26 13 16 00-0001) Note: Excludes air circuit breaker element.		
26 13 16 00-0024	EA 1,200 Amp, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	4,867.29 972.87	698.30
26 13 16 00-0025	EA 1,200 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	6,279.58 1,283.57	698.30
26 13 16 00-0026	EA 2,000 Amp, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	6,848.12 1,377.02	927.51
26 13 16 00-0027	EA 2,000 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	8,485.91 1,706.41	1,146.07
26 13 16 00-0028	EA 3,000 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	11,344.26 2,335.25	1,146.07
26 13 16 00-0029	7.2 KV Switchgear Section ^(26 13 16 00-0001) Note: Excludes air circuit breaker element.		
26 13 16 00-0030	EA 1,200 Amp, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	6,138.03 1,238.82	1,066.11
26 13 16 00-0031	EA 2,000 Amp, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	8,026.35 1,622.83	1,066.11
26 13 16 00-0032	EA 3,000 Amp, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	12,173.17 2,504.14	1,066.11
26 13 16 00-0033	13.8 KV Switchgear Section ^(26 13 16 00-0001) Note: Excludes air circuit breaker element.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0034 EA 1,200 Amp, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	6,348.35 1,270.36	906.20
26 13 16 00-0035 EA 1,200 Amp, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	6,757.09 1,360.29	906.20
26 13 16 00-0036 EA 1,200 Amp, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	9,643.69 1,964.17	1,119.42
26 13 16 00-0037 EA 2,000 Amp, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	8,676.19 1,720.31	1,343.30
26 13 16 00-0038 EA 2,000 Amp, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	10,602.31 2,144.05	1,343.30
26 13 16 00-0039 EA 2,000 Amp, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	12,196.43 2,463.07	1,567.19
26 13 16 00-0040 EA 3,000 Amp, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	11,499.71 2,278.66	1,791.07
26 13 16 00-0041 EA 3,000 Amp, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	12,819.54 2,569.03	1,791.07
26 13 16 00-0042 EA 3,000 Amp, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	15,749.68 3,182.25	2,004.30
26 13 16 00-0043 Accessories For Substation Secondary Distribution Sections (26 13 16 00-0001)		
26 13 16 00-0044 EA 1,200 Amp, Transformer Throat Connection Accessories, Secondary Distribution Section <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,144.58 405.37	675.60
26 13 16 00-0045 EA 2,000 Amp, Transformer Throat Connection Accessories, Secondary Distribution Section <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,908.58 449.84	749.69
26 13 16 00-0046 EA 3,000 Amp, Transformer Throat Connection Accessories, Secondary Distribution Section <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,083.64 541.17	901.94
26 13 16 00-0047 EA 3-Phase Pothead Termination Accessories, Secondary Distribution Section	3,401.41	1,356.42
26 13 16 00-0048 EA 5 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	3,737.69	88.22
26 13 16 00-0049 EA 5 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	4,985.22	88.22
26 13 16 00-0050 EA 5 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	9,111.25	88.22
26 13 16 00-0051 EA 15 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	7,164.98	88.22
26 13 16 00-0052 EA 15 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	7,819.86	88.22
26 13 16 00-0053 EA 15 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	10,636.73	88.22
26 13 16 00-0054 EA 6 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	1,704.90	88.22
26 13 16 00-0055 EA 9 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	1,924.18	88.22
26 13 16 00-0056 EA 15 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	2,911.53	88.22
26 13 16 00-0057 EA Overcurrent Phase Protection, Time And Instantaneous Device 67	1,871.43	88.22
26 13 16 00-0058 EA AC Ammeter With Switch..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	745.39 52.94	88.22
26 13 16 00-0059 EA AC Voltmeter With Switch And Potential Transformer	745.39	88.22
26 13 16 00-0060 EA Indicating Wattmeter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,091.50 52.94	88.22
26 13 16 00-0061 EA Indicating Varmeter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,283.52 52.94	88.22
26 13 16 00-0062 EA Indicating Watt-hour Meter, 2 Element	814.14	88.22
26 13 16 00-0063 EA Ground Protection, Time Or Instantaneous Device 67N..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,442.71 52.94	88.22
26 13 16 00-0064 EA Differential Generator Protection Single Phase NEMA Device 87	3,535.00	88.22
26 13 16 00-0065 EA Current Transformers 5 And 15 KV Single Secondary	512.48	88.22
26 13 16 00-0066 EA Potential Transformers 5 KV And 15 KV With Primary Fuses.....	2,366.29	88.22
26 13 19 Medium-Voltage Vacuum Interrupter Switchgear (26 13)		
26 13 19 00-0001 Vacuum Circuit Breakers 13.8 KV (26 13 19)		
26 13 19 00-0002 EA 1,200 Amp, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	38,204.51	1,332.64
26 13 19 00-0003 EA 1,200 Amp, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	42,210.52	1,684.46
26 13 19 00-0004 EA 1,200 Amp, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	47,932.78	1,684.46
26 13 19 00-0005 EA 2,000 Amp, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	43,743.39	1,332.64
26 13 19 00-0006 EA 2,000 Amp, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	49,166.23	1,332.64
26 13 19 00-0007 EA 2,000 Amp, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	56,047.17	1,567.19
26 13 19 00-0008 EA 3,000 Amp, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	57,873.40	1,791.07
26 13 19 00-0009 EA 3,000 Amp, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	63,323.79	1,791.07
26 13 19 00-0010 EA 3,000 Amp, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	69,205.45	2,014.96
26 18 Medium-Voltage Circuit Protection Devices (26 10)		
26 18 36 Medium-Voltage Enclosed Fuses (26 18)		
26 18 36 00-0001 Sectionalizing Switch (26 18 36)		
26 18 36 00-0002 Pad Mounted Metal Enclosed Oil Filled Switching Units (26 18 36 00-0001) Note: 15 KV - 25 KV.		
26 18 36 00-0003 Sectionalizing Tapping And Fusing Underground Feeders (26 18 36 00-0002) Note: 200 Amp replaceable bushing wells recessed locking assembly oil level and oil fill plugs.		
26 18 36 00-0004 EA 3 Phase, 1 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	20,251.16	737.00
26 18 36 00-0005 EA 3 Phase, 2 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	22,731.13	737.00

26	Electrical
26 10	Medium-Voltage Electrical Distribution
26 18	Medium-Voltage Circuit Protection Devices



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 20 Low-Voltage Electrical Distribution (26)

26 21 Low-Voltage Electrical Service Entrance (26 20)

See CSI section 26 05 13 00-0000 for wire and cables.

26 21 13 Low-Voltage Overhead Electrical Service Entrance (26 21)

26 21 13 00-0001	Service Drop Cable And Weatherheads (26 21 13)		
26 21 13 00-0002	600 Volt Insulated Stranded Conductors (26 21 13 00-0001)		
26 21 13 00-0003	Aluminum Duplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0004	LF #6 AWG Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	6.52	2.54
26 21 13 00-0005	LF #4 AWG Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	7.79	3.01
26 21 13 00-0006	LF #2 AWG Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	8.94	3.38
26 21 13 00-0007	LF #1/0 AWG Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	11.55	4.26

26 21 13 00-0008 Aluminum Triplex ACSR Neutral (26 21 13 00-0002)

26 21 13 00-0009	LF #6 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	7.83	3.01
26 21 13 00-0010	LF #4 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	8.89	3.38
26 21 13 00-0011	LF #2 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	11.24	4.26
26 21 13 00-0012	LF #1/0 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	13.87	5.20
26 21 13 00-0013	LF #2/0 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	18.23	6.88
26 21 13 00-0014	LF #4/0 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	22.90	8.53
26 21 13 00-0015	LF 336 MCM Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	28.75	10.15

26 21 13 00-0016 Aluminum Quadruplex ACSR Neutral (26 21 13 00-0002)

26 21 13 00-0017	LF #6 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	8.90	3.38
26 21 13 00-0018	LF #4 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	11.23	4.26
26 21 13 00-0019	LF #2 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	14.45	5.46
26 21 13 00-0020	LF #1/0 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	18.48	6.88
26 21 13 00-0021	LF #2/0 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	20.51	7.62
26 21 13 00-0022	LF #3/0 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	23.32	8.53
26 21 13 00-0023	LF #4/0 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	27.61	10.15
26 21 13 00-0024	LF 336 MCM Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	32.31	11.22

26 21 13 00-0025 Aluminum Triplex For Underground Service, Direct Burial (26 21 13 00-0002)

Note: Excludes excavation and backfill.

26 21 13 00-0026	MLF #6 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	2,749.38	947.66
26 21 13 00-0027	MLF #4 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	3,013.89	1,003.42
26 21 13 00-0028	MLF #2 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	3,366.10	1,066.11
26 21 13 00-0029	MLF #1/0 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	3,666.41	1,066.11
26 21 13 00-0030	MLF #2/0 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	4,000.12	1,137.22
26 21 13 00-0031	MLF #3/0 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	4,688.70	1,312.17
26 21 13 00-0032	MLF #4/0 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	5,906.74	1,705.78

26 21 13 00-0033 Weather Proof Conduit Hubs (26 21 13 00-0002)

26 21 13 00-0034	EA 1/2" Weatherproof Conduit Hubs.....	44.32	16.98
26 21 13 00-0035	EA 3/4" Weatherproof Conduit Hubs.....	50.53	19.30
26 21 13 00-0036	EA 1" Weatherproof Conduit Hubs.....	58.32	21.61
26 21 13 00-0037	EA 1-1/4" Weatherproof Conduit Hubs.....	80.80	28.95
26 21 13 00-0038	EA 1-1/2" Weatherproof Conduit Hubs.....	88.59	31.27
26 21 13 00-0039	EA 2" Weatherproof Conduit Hubs.....	112.58	36.28
26 21 13 00-0040	EA 2-1/2" Weatherproof Conduit Hubs.....	144.76	40.92
26 21 13 00-0041	EA 3" Weatherproof Conduit Hubs.....	184.84	48.25
26 21 13 00-0042	EA 4" Weatherproof Conduit Hubs.....	332.45	96.51

26 21 13 00-0043 Service Entrance Cap, Threaded Weatherhead, Galvanized (26 21 13 00-0002)

26 21 13 00-0044	EA 1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #14 Thru #10 AWG Cable Service.....	49.89	16.98
26 21 13 00-0045	EA 3/4" Galvanized Threaded Service Entrance Weatherhead Cap For #12 Thru #8 AWG Cable Service.....	57.21	19.30
26 21 13 00-0046	EA 1" Galvanized Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	65.49	21.61
26 21 13 00-0047	EA 1-1/4" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service.....	88.00	28.95
26 21 13 00-0048	EA 1-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service.....	99.45	31.27
26 21 13 00-0049	EA 2" Galvanized Threaded Service Entrance Weatherhead Cap For #1/0 Thru #2/0 AWG Cable Service.....	130.46	36.28
26 21 13 00-0050	EA 2-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #3/0 Thru #4/0 Cable Service.....	218.61	40.92
26 21 13 00-0051	EA 3" Galvanized Threaded Service Entrance Weatherhead Cap For 250 Thru 350 MCM Cable Service.....	248.93	48.25
26 21 13 00-0052	EA 4" Galvanized Threaded Service Entrance Weatherhead Cap For 600 Thru 750 MCM Cable Service.....	410.02	96.51

26 21 13 00-0053 Service Entrance Cap, Clamp-On Weatherhead, Aluminum (26 21 13 00-0002)

26 21 13 00-0054	EA 1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #14 Thru #10 AWG Cable Service.....	48.27	16.98
26 21 13 00-0055	EA 3/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #12 Thru #8 AWG Cable Service.....	54.48	19.30
26 21 13 00-0056	EA 1" Aluminum Clamp-On Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	61.80	21.52
26 21 13 00-0057	EA 1-1/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service.....	82.16	28.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 21 13 00-0058 EA 1-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service.....	91.57	31.27
26 21 13 00-0059 EA 2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #1/0 Thru #2/0 AWG Cable Service.....	107.93	36.28
26 21 13 00-0060 EA 2-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #3/0 Thru #4/0 Cable Service.....	176.37	40.92
26 21 13 00-0061 EA 3" Aluminum Clamp-On Service Entrance Weatherhead Cap For 250 Thru 350 MCM Cable Service.....	227.68	48.25
26 21 13 00-0062 EA 3-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 400 Thru 500 MCM Cable Service.....	320.73	72.38
26 21 13 00-0063 EA 4" Aluminum Clamp-On Service Entrance Weatherhead Cap For 600 Thru 750 MCM Cable Service.....	384.73	96.51
26 21 13 00-0064 Service Entrance Cap, Threaded Weatherhead, Polyvinyl Chloride (PVC) ^(26 21 13 00-0002)		
26 21 13 00-0065 EA 1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #14 Thru #10 AWG Cable Service	45.60	16.98
26 21 13 00-0066 EA 3/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #12 Thru #8 AWG Cable Service	52.09	19.30
26 21 13 00-0067 EA 1" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	58.99	21.52
26 21 13 00-0068 EA 1-1/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service	78.67	28.95
26 21 13 00-0069 EA 1-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service	85.54	31.27
26 21 13 00-0070 EA 2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #1/0 Thru #2/0 AWG Cable Service	103.73	36.28
26 21 13 00-0071 EA 2-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #3/0 Thru #4/0 Cable Service.....	162.24	40.92
26 21 13 00-0072 EA 3" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 250 Thru 350 MCM Cable Service.....	183.16	48.25
26 21 13 00-0073 EA 3-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 400 Thru 500 MCM Cable Service	308.76	72.38
26 21 13 00-0074 EA 4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 600 Thru 750 MCM Cable Service.....	425.51	96.51
26 22 Low-Voltage Transformers ^(26 20)		
26 22 13 Low-Voltage Distribution Transformers ^(26 22)		
26 22 13 00-0001 Single Phase General Purpose "Dry Type" Transformers ^(26 22 13)		
Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor Use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		
26 22 13 00-0002 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers ^(26 22 13 00-0001)		
Note: 2-2.5 Percent taps above and 4-2.5 percent taps below.		
26 22 13 00-0003 EA 1 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	660.90	247.27
26 22 13 00-0004 EA 3 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	846.71	296.72
26 22 13 00-0005 EA 5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	980.37	309.58
26 22 13 00-0006 EA 7.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,115.07	321.45
26 22 13 00-0007 EA 10 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,432.47	346.17
26 22 13 00-0008 EA 15 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,650.36	370.91
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	45.43	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	68.14	
26 22 13 00-0009 EA 25 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,794.08	395.63
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	50.14	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	75.21	
26 22 13 00-0010 EA 37.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,824.99	445.09
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	46.74	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	70.11	
26 22 13 00-0011 EA 50 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,126.59	494.53
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	56.88	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	85.31	
26 22 13 00-0012 EA 75 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,728.81	593.44
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	77.10	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	115.64	
26 22 13 00-0013 EA 100 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	3,378.95	692.35
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	99.71	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	149.57	
26 22 13 00-0014 EA 167 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	5,088.15	890.16
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	165.39	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	248.09	
26 22 13 00-0015 EA 250 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	8,451.23	1,087.98
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	313.76	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	470.65	
26 22 13 00-0016 EA 333 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	12,596.92	1,236.33
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	506.21	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	759.32	
26 22 13 00-0017 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers ^(26 22 13 00-0001)		
Note: 1-10 Percent x 2-5 percent FCBN taps.		
26 22 13 00-0018 EA 3 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	769.29	296.72
26 22 13 00-0019 EA 5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	856.31	309.09
26 22 13 00-0020 EA 7.5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	976.39	321.45
26 22 13 00-0021 EA 10 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	1,106.34	346.17
26 22 13 00-0022 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers ^(26 22 13 00-0001)		
Note: 2-5 Percent x 4 - 2.5 percent FCBN taps.		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 22	Low-Voltage Transformers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0023 EA 15 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	1,650.36	370.91
26 22 13 00-0024 EA 25 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	1,794.08	395.63
26 22 13 00-0025 1 Phase Mounting Brackets (26 22 13 00-0001)		
26 22 13 00-0026 EA 1 Phase Mounting Brackets (Set Of 2) For Transformers Up To 100 KVA	449.16	176.45
26 22 13 00-0027 1 Phase Weathershields (26 22 13 00-0001)		
Note: Use with types DT-3 and DS-3.		
26 22 13 00-0028 EA 37.5 KVA 1 Phase Weathershields, Set Of 2	32.73	
26 22 13 00-0029 EA 50 KVA 1 Phase Weathershields, Set Of 2	41.72	
26 22 13 00-0030 EA 75 KVA 1 Phase Weathershields, Set Of 2	49.75	
26 22 13 00-0031 EA 100 KVA 1 Phase Weathershields, Set Of 2	59.35	
26 22 13 00-0032 EA 167 KVA 1 Phase Weathershields, Set Of 2	80.30	
26 22 13 00-0033 EA 250 KVA 1 Phase Weathershields, Set Of 2	96.01	
26 22 13 00-0034 EA 333 KVA 1 Phase Weathershields, Set Of 2	117.83	
26 22 13 00-0035 Packaged Power Supply (26 22 13 00-0001)		
Note: 2-5 Percent FCBN taps.		
26 22 13 00-0036 EA 5 KVA, 480 Volt - 120/240 Volt, Transformer With 6 - 1 Pole / 3 - 2 Pole Max 20 Amp Breakers	1,099.34	309.09
26 22 13 00-0037 EA 7.5 KVA, 480 Volt - 120/240 Volt, Transformer With 8 - 1 Pole / 4 - 2 Pole Max 30 Amp Breakers	1,205.53	321.45
26 22 13 00-0038 EA 10 KVA, 480 Volt - 120/240 Volt, Transformer With 10 - 1 Pole / 5 - 2 Pole Max 40 Amp Breakers	1,303.50	346.17
26 22 13 00-0039 EA 15 KVA, 480 Volt - 120/240 Volt, Transformer With 16 - 1 Pole / 8 - 2 Pole Max 60 Amp Breakers	1,535.00	370.91
26 22 13 00-0040 EA 25 KVA, 480 Volt - 120/240 Volt, Transformer With 24 - 1 Pole / 12 - 2 Pole Max 100 Amp Breakers	1,974.38	395.63
26 22 13 00-0041 240 Volt, 120/240 Volt, Single Phase Isolation Transformer Computer Grade (26 22 13 00-0001)		
26 22 13 00-0042 EA 0.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	807.29	222.54
26 22 13 00-0043 EA 1 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,057.47	247.27
26 22 13 00-0044 EA 2.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,243.66	296.72
26 22 13 00-0045 EA 5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,351.30	309.09
26 22 13 00-0046 EA 7.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,489.50	321.45
26 22 13 00-0047 EA 10 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,835.69	346.17
26 22 13 00-0048 EA 15 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	2,284.87	370.91
26 22 13 00-0049 1 Phase, 208/600 Volt, Dry General Purpose Transformer (26 22 13 00-0001)		
26 22 13 00-0050 EA 15 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	2,705.85	370.91
26 22 13 00-0051 EA 25 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	2,820.41	395.63
26 22 13 00-0052 EA 30 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	2,941.88	420.35
26 22 13 00-0053 EA 37.5 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	3,744.64	445.09
26 22 13 00-0054 EA 45 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	3,900.45	469.81
26 22 13 00-0055 EA 50 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	5,035.86	494.53
26 22 13 00-0056 3 Phase General Purpose "Dry Type" Transformer (26 22 13)		
Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		
26 22 13 00-0057 Packaged Power Supply (26 22 13 00-0056)		
Note: 2-5 Percent FCBN taps.		
26 22 13 00-0058 EA 15 KVA, 480 Volt - 208/120 Volt, Transformer With 12 - 1 Pole / 4 - 3 Pole Max, 40 Amp Breakers	4,432.86	1,063.25
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	115.32	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	172.98	
26 22 13 00-0059 EA 22.5 KVA, 480 Volt - 208/120 Volt, Transformer With 18 - 1 Pole / 6 - 3 Pole Max, 60 Amp Breakers	5,132.93	1,137.43
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	142.90	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	214.36	
26 22 13 00-0060 EA 30 KVA, 480 Volt - 208/120 Volt, Transformer With 24 - 1 Pole / 8 - 3 Pole Max, 80 Amp Breakers	5,979.49	1,236.33
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	175.34	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	263.01	
26 22 13 00-0061 Drive Isolation Transformers (26 22 13 00-0056)		
Note: Only use in step-up applications.		
26 22 13 00-0062 230 Volt Drive Isolation Transformers (26 22 13 00-0061)		
26 22 13 00-0063 EA 7.5 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	2,832.54	395.63
26 22 13 00-0064 EA 11 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	3,263.77	420.35
26 22 13 00-0065 EA 15 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	3,389.59	445.09
26 22 13 00-0066 EA 20 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	3,934.86	469.81
26 22 13 00-0067 EA 27 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	4,112.15	519.26
26 22 13 00-0068 EA 34 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	4,518.53	568.71
26 22 13 00-0069 EA 40 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	5,079.64	618.17
26 22 13 00-0070 EA 51 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	5,878.58	692.35
26 22 13 00-0071 EA 63 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	6,324.07	717.08
26 22 13 00-0072 EA 75 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	7,199.19	741.80
26 22 13 00-0073 EA 93 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	8,860.30	766.53
26 22 13 00-0074 EA 118 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	10,040.29	939.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0075 EA 145 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	11,129.80	989.07
26 22 13 00-0076 EA 175 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	12,638.78	1,038.52
26 22 13 00-0077 EA 220 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	15,381.12	1,236.33
26 22 13 00-0078 EA 275 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	20,167.35	1,458.88
26 22 13 00-0079 EA 330 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	21,366.11	1,607.24
26 22 13 00-0080 EA 440 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	25,812.16	1,780.32
26 22 13 00-0081 EA 550 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	31,601.66	1,978.14
26 22 13 00-0082 208V Drive Isolation Transformers <small>(26 22 13 00-0061)</small>		
26 22 13 00-0083 EA 7.5 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	2,936.44	395.63
26 22 13 00-0084 EA 11 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,387.10	420.35
26 22 13 00-0085 EA 15 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,516.81	445.09
26 22 13 00-0086 EA 20 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,087.32	469.81
26 22 13 00-0087 EA 27 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,268.60	519.26
26 22 13 00-0088 EA 30 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,641.17	543.99
26 22 13 00-0089 EA 45 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,324.73	642.90
26 22 13 00-0090 EA 51 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	6,107.31	692.35
26 22 13 00-0091 EA 63 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	6,572.96	717.08
26 22 13 00-0092 EA 75 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	7,490.11	741.80
26 22 13 00-0093 EA 93 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	9,233.25	766.53
26 22 13 00-0094 EA 118 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	10,455.69	939.62
26 22 13 00-0095 EA 145 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	11,595.62	989.07
26 22 13 00-0096 EA 175 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	13,176.37	1,038.52
26 22 13 00-0097 EA 220 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	16,038.16	1,236.33
26 22 13 00-0098 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCBN Taps <small>(26 22 13 00-0056)</small>		
26 22 13 00-0099 EA 9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	2,146.06	407.99
26 22 13 00-0100 EA 15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	2,715.19	445.09
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	91.25	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	136.88	
26 22 13 00-0101 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 4-2.5 Percent FCBN Taps <small>(26 22 13 00-0056)</small>		
26 22 13 00-0102 EA 30 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	3,092.73	543.99
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	100.24	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	150.36	
<i>For K4 Factor Rating, Add</i>	1,403.33	
<i>For K13 Factor Rating, Add</i>	2,004.75	
<i>For K20 Factor Rating, Add</i>	2,606.18	
26 22 13 00-0103 EA 37.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	3,664.87	593.44
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	123.90	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	185.85	
<i>For K4 Factor Rating, Add</i>	1,734.59	
<i>For K13 Factor Rating, Add</i>	2,477.98	
<i>For K20 Factor Rating, Add</i>	3,221.37	
26 22 13 00-0104 EA 45 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	3,856.08	642.90
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	128.51	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	192.77	
<i>For K4 Factor Rating, Add</i>	1,799.20	
<i>For K13 Factor Rating, Add</i>	2,570.29	
<i>For K20 Factor Rating, Add</i>	3,341.38	
26 22 13 00-0105 EA 50 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	4,897.72	692.35
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	175.65	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	263.48	
<i>For K4 Factor Rating, Add</i>	2,459.11	
<i>For K13 Factor Rating, Add</i>	3,513.02	
<i>For K20 Factor Rating, Add</i>	4,566.93	
26 22 13 00-0106 EA 75 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	4,894.21	741.80
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	170.53	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	255.80	
<i>For K4 Factor Rating, Add</i>	2,387.43	
<i>For K13 Factor Rating, Add</i>	3,410.61	
<i>For K20 Factor Rating, Add</i>	4,433.79	
26 22 13 00-0107 EA 112.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	6,055.92	890.16
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	213.78	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	320.67	
<i>For K4 Factor Rating, Add</i>	2,992.92	
<i>For K13 Factor Rating, Add</i>	4,275.60	
<i>For K20 Factor Rating, Add</i>	5,558.28	
26 22 13 00-0108 EA 150 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	7,680.31	989.07
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	285.11	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	427.66	
<i>For K4 Factor Rating, Add</i>	3,991.52	
<i>For K13 Factor Rating, Add</i>	5,702.17	
<i>For K20 Factor Rating, Add</i>	7,412.82	
26 22 13 00-0109 EA 225 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	10,351.29	1,236.33
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	393.93	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	590.90	
<i>For K4 Factor Rating, Add</i>	5,515.03	
<i>For K13 Factor Rating, Add</i>	7,878.61	
<i>For K20 Factor Rating, Add</i>	10,242.19	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0110 EA 300 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	12,645.93	1,533.06
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	478.99	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	718.49	
For K4 Factor Rating, Add	6,705.87	
For K13 Factor Rating, Add	9,579.81	
For K20 Factor Rating, Add	12,453.75	
26 22 13 00-0111 EA 500 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	17,786.55	1,879.23
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	701.40	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,052.11	
For K4 Factor Rating, Add	9,819.66	
For K13 Factor Rating, Add	14,028.08	
For K20 Factor Rating, Add	18,236.50	
26 22 13 00-0112 EA 750 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	38,767.42	2,260.14
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	1,710.88	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	2,566.33	
For K4 Factor Rating, Add	23,952.38	
For K13 Factor Rating, Add	34,217.69	
For K20 Factor Rating, Add	44,483.00	
26 22 13 00-0113 EA 1,000 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	50,501.76	2,472.68
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	2,277.82	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	3,416.73	
For K4 Factor Rating, Add	31,889.49	
For K13 Factor Rating, Add	45,556.41	
For K20 Factor Rating, Add	59,223.33	
26 22 13 00-0114 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 2-2.5 Percent FCBN Taps (26 22 13 00-0056)		
26 22 13 00-0115 EA 6 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	1,803.19	383.27
For K4 Factor Rating, Add	725.66	
For K13 Factor Rating, Add	1,036.66	
For K20 Factor Rating, Add	1,347.66	
26 22 13 00-0116 EA 9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	2,146.06	407.99
For K4 Factor Rating, Add	931.06	
For K13 Factor Rating, Add	1,330.08	
For K20 Factor Rating, Add	1,729.10	
26 22 13 00-0117 EA 15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	2,715.19	445.09
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	91.25	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	136.88	
For K4 Factor Rating, Add	1,277.52	
For K13 Factor Rating, Add	1,825.03	
For K20 Factor Rating, Add	2,372.54	
26 22 13 00-0118 480 Volt x 480Y/277 Volt, 2-2.5 Percent FCAN And 4 Percent FCBN Taps (26 22 13 00-0056)		
26 22 13 00-0119 EA 30 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	4,904.10	543.99
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	190.81	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	286.21	
For K4 Factor Rating, Add	2,671.28	
For K13 Factor Rating, Add	3,816.12	
For K20 Factor Rating, Add	4,960.96	
26 22 13 00-0120 EA 45 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	5,532.37	642.90
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	212.33	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	318.49	
For K4 Factor Rating, Add	2,972.61	
For K13 Factor Rating, Add	4,246.58	
For K20 Factor Rating, Add	5,520.55	
26 22 13 00-0121 EA 75 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	7,942.14	741.80
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	322.93	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	484.39	
For K4 Factor Rating, Add	4,520.98	
For K13 Factor Rating, Add	6,458.54	
For K20 Factor Rating, Add	8,396.10	
26 22 13 00-0122 EA 112.5 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	9,926.85	890.16
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	407.33	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	610.99	
For K4 Factor Rating, Add	5,702.57	
For K13 Factor Rating, Add	8,146.53	
For K20 Factor Rating, Add	10,590.49	
26 22 13 00-0123 EA 150 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	11,867.48	989.07
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	494.47	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	741.70	
For K4 Factor Rating, Add	6,922.54	
For K13 Factor Rating, Add	9,889.34	
For K20 Factor Rating, Add	12,856.14	
26 22 13 00-0124 EA 225 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	15,178.56	1,236.33
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	635.29	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	952.94	
For K4 Factor Rating, Add	8,894.12	
For K13 Factor Rating, Add	12,705.88	
For K20 Factor Rating, Add	16,517.64	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0125	EA			300 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	18,486.97 771.04 1,156.56 10,794.60 15,420.85 20,047.11	1,533.06
26 22 13 00-0126	EA			500 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	29,086.39 1,266.40 1,899.59 17,729.54 25,327.92 32,926.30	1,879.23
26 22 13 00-0127				3 Phase 60 Hz K20 Dry Type Transformers <small>(26 22 13 00-0056)</small>		
26 22 13 00-0128				3 Phase 60 Hz K20 Dry Type Transformers, 115 C Rise <small>(26 22 13 00-0127)</small> Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0129	EA			15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	2,568.48	445.09
26 22 13 00-0130	EA			30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	3,746.53	543.99
26 22 13 00-0131	EA			45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	5,334.07	642.90
26 22 13 00-0132	EA			75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	6,731.37	741.80
26 22 13 00-0133	EA			112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	9,875.26	890.16
26 22 13 00-0134	EA			150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	11,912.62	989.07
26 22 13 00-0135	EA			225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	13,945.21	1,236.33
26 22 13 00-0136	EA			300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	21,693.67	1,533.06
26 22 13 00-0137				3 Phase 60 Hz K20 Dry Type Transformers, 80 C Rise <small>(26 22 13 00-0127)</small> Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0138	EA			15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	2,905.43	445.09
26 22 13 00-0139	EA			30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	4,278.56	543.99
26 22 13 00-0140	EA			45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	6,143.40	642.90
26 22 13 00-0141	EA			75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	7,779.31	741.80
26 22 13 00-0142	EA			112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	11,493.93	890.16
26 22 13 00-0143	EA			150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	13,900.48	989.07
26 22 13 00-0144	EA			225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	16,239.40	1,236.33
26 22 13 00-0145	EA			300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	25,419.50	1,533.06
26 22 13 00-0146				NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0056)</small>		
26 22 13 00-0147				Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0146)</small> Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0148				150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0147)</small>		
26 22 13 00-0149	EA			15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,083.93	442.20
26 22 13 00-0150	EA			30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,761.87	540.46
26 22 13 00-0151	EA			45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,535.13	638.73
26 22 13 00-0152	EA			75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,089.95	737.00
26 22 13 00-0153	EA			112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	8,148.30	884.40
26 22 13 00-0154	EA			150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	10,137.32	982.66
26 22 13 00-0155	EA			225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	13,440.99	1,228.33
26 22 13 00-0156	EA			300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	18,922.64	1,523.14
26 22 13 00-0157				115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0147)</small>		
26 22 13 00-0158	EA			15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,745.71	442.20
26 22 13 00-0159	EA			30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,563.49	540.46
26 22 13 00-0160	EA			45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,512.64	638.73
26 22 13 00-0161	EA			75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,474.96	737.00
26 22 13 00-0162	EA			112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	9,577.84	884.40
26 22 13 00-0163	EA			150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	12,588.92	982.66
26 22 13 00-0164	EA			225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	16,736.50	1,228.33
26 22 13 00-0165	EA			300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	23,685.55	1,523.14

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 22 13 00-0166		80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0147)</small>		
26 22 13 00-0167	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,404.82	442.20
26 22 13 00-0168	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,367.33	540.46
26 22 13 00-0169	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,490.17	638.73
26 22 13 00-0170	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	8,857.74	737.00
26 22 13 00-0171	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	11,381.47	884.40
26 22 13 00-0172	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	15,040.52	982.66
26 22 13 00-0173	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	20,032.02	1,228.33
26 22 13 00-0174	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	28,448.46	1,523.14
26 22 13 00-0175		Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0146)</small>		
		Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0176		150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small>		
26 22 13 00-0177	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	4,184.37	442.20
26 22 13 00-0178	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,100.12	540.46
26 22 13 00-0179	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,162.84	638.73
26 22 13 00-0180	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	8,396.81	737.00
26 22 13 00-0181	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	11,408.18	884.40
26 22 13 00-0182	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	14,307.93	982.66
26 22 13 00-0183	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	19,045.59	1,228.33
26 22 13 00-0184	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	27,025.60	1,523.14
26 22 13 00-0185		115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small>		
26 22 13 00-0186	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	4,843.48	442.20
26 22 13 00-0187	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,903.97	540.46
26 22 13 00-0188	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,140.37	638.73
26 22 13 00-0189	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	9,781.82	737.00
26 22 13 00-0190	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	14,917.47	884.40
26 22 13 00-0191	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	18,819.22	982.66
26 22 13 00-0192	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	24,024.50	1,228.33
26 22 13 00-0193	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	35,818.84	1,523.14
26 22 13 00-0194		80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small>		
26 22 13 00-0195	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,504.80	442.20
26 22 13 00-0196	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,707.80	540.46
26 22 13 00-0197	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	8,117.88	638.73
26 22 13 00-0198	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	11,164.60	737.00
26 22 13 00-0199	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	17,736.48	884.40
26 22 13 00-0200	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	22,909.68	982.66
26 22 13 00-0201	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	29,001.17	1,228.33



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0202 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	42,841.85	1,523.14
26 22 13 00-0203 3 Phase Weathershields (26 22 13 00-0056) Note: Use with type DT-3 and DS-3.		
26 22 13 00-0204 EA 45-112.5 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2	443.36	
26 22 13 00-0205 EA 150-300 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2	752.91	
26 22 13 00-0206 EA 500-1,000 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2	752.91	
26 22 13 00-0207 Three Phase Mounting Brackets (26 22 13 00-0056)		
26 22 13 00-0208 EA 3 Phase Mounting Brackets (Set Of 2) For Transformers Up To 112.5 KVA.....	589.56	176.45
26 22 13 00-0209 Pad Mounted Commercial Type Distribution Transformers UL Listed (26 22 13)		
26 22 13 00-0210 Distribution 3 Phase Oil Filled Transformer (26 22 13 00-0209) Note: Designed for loads as shopping centers, institutions, and industrial plants with underground distribution. KVA-75 thru 1000, 3 phase 95 thru 150 KV BIL standard features. With taps 4-1/2 percent below - 2-1/2 percent above and below.		
26 22 13 00-0211 Factory Modifications (26 22 13 00-0210) Note: For use with series 4100 3 phase transformers.		
26 22 13 00-0212 EA Current Limiting Fuse 95 KV Series 4100, 3 Phase Transformer, Factory Modification	812.40	
26 22 13 00-0213 EA Lightning Arrestors 9-10 KV Series 4100, 3 Phase Transformer, Factory Modification	132.10	
26 22 13 00-0214 EA Loadbreaker Oil Switch, 2 Position Series 4100, 3 Phase Transformer, Factory Modification.....	528.42	
26 22 13 00-0215 EA Loop Feed Air Switch Series 4100, 3 Phase Transformer, Factory Modification	1,522.41	
26 22 13 00-0216 EA Loadbreaker Inserts Series 4100, 3 Phase Transformer, Factory Modification	186.50	
26 22 13 00-0217 EA Lightning Arrestors, 15 KV Series 4100, 3 Phase Transformer, Factory Modification	147.65	
26 22 13 00-0218 Accessories For Transformer Liquid Containment Area (26 22 13 00-0210) Note: Reinforced concrete curb with 6" slab.		
26 22 13 00-0219 EA Containment Area For 75 KVA	4,676.00	1,764.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,176.67	
26 22 13 00-0220 EA Containment Area For 112.5 KVA	4,676.00	1,764.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,176.67	
26 22 13 00-0221 EA Containment Area For 150 KVA	4,676.00	1,764.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,176.67	
26 22 13 00-0222 EA Containment Area For 225 KVA	4,676.00	1,764.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,176.67	
26 22 13 00-0223 EA Containment Area For 300 KVA	4,669.68	1,764.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,174.77	
26 22 13 00-0224 EA Containment Area For 500 KVA	4,669.68	1,764.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,174.77	
26 22 13 00-0225 EA Containment Area For 750 KVA	4,691.44	1,764.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,174.77	
26 22 13 00-0226 EA Containment Area For 1,000 KVA	5,006.94	1,764.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,174.77	
26 22 13 00-0227 Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 95 KV BIL (26 22 13 00-0210) Note: Rated to 5 KVA.		
26 22 13 00-0228 EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	5,944.69	1,179.20
26 22 13 00-0229 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	6,410.94	1,179.20
26 22 13 00-0230 EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	6,721.78	1,179.20
26 22 13 00-0231 EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	7,654.28	1,179.20
26 22 13 00-0232 EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,601.54	1,768.80
26 22 13 00-0233 EA 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,912.37	1,768.80
26 22 13 00-0234 EA 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	12,642.39	1,768.80
26 22 13 00-0235 EA 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	16,241.06	2,358.40
26 22 13 00-0236 EA 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	20,281.91	2,358.40
26 22 13 00-0237 Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 95 BIL (26 22 13 00-0210) Note: Rated to 5 KVA.		
26 22 13 00-0238 EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	6,100.11	1,179.20
26 22 13 00-0239 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	6,721.78	1,179.20

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 22 Low-Voltage Transformers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22	13 00-0240	EA	112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	6,877.19	1,179.20
26 22	13 00-0241	EA	150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	7,032.61	1,179.20
26 22	13 00-0242	EA	225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,601.54	1,768.80
26 22	13 00-0243	EA	300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	9,223.21	1,768.80
26 22	13 00-0244	EA	500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	12,642.39	1,768.80
26 22	13 00-0245	EA	750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	16,396.47	2,358.40
26 22	13 00-0246	EA	1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	20,281.91	2,358.40
26 22 13 00-0247 Primary 5 KV Or 15 KV, Secondary 277/480 Volt (26 22 13 00-0209)					
Note: 4-2.5 Percent taps FCAN and FCBN. Pad mounted.					
26 22	13 00-0248	EA	150 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	10,182.74	1,554.58
26 22	13 00-0249	EA	225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	11,331.15	1,835.22
26 22	13 00-0250	EA	300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	13,007.21	2,243.04
26 22	13 00-0251	EA	500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	15,273.83	2,523.67
26 22	13 00-0252	EA	750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	18,076.87	2,656.42
26 22	13 00-0253	EA	1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	22,912.64	3,881.41
26 22	13 00-0254	EA	1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	26,639.37	4,391.19
26 22	13 00-0255	EA	2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	32,700.58	5,047.35
26 22	13 00-0256	EA	2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	35,689.99	5,299.72
26 22	13 00-0257	EA	3,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	38,190.08	5,905.60
26 22	13 00-0258	EA	3,750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	43,144.03	6,309.39
26 22 13 00-0259 Pad Mounted Transformer 15 KV - 480 Volt, Oil Filled (26 22 13 00-0209)					
26 22	13 00-0260	EA	1,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	37,881.33	4,379.25
26 22	13 00-0261	EA	2,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	46,236.05	5,036.17
26 22	13 00-0262	EA	2,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	52,117.68	5,301.20
26 22	13 00-0263	EA	3,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	55,670.99	5,924.89
26 22	13 00-0264	EA	3,750 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	61,837.65	6,104.43
26 22 13 00-0265 Silicone Filled Distribution Transformers, 3 Phase (26 22 13 00-0209)					
Note: Primary 5 KV or 15 KV, secondary 277/480 V, 4-2.5 percent taps FCAN and FCBN. Pad mounted.					
26 22	13 00-0266	EA	225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	16,256.73	1,835.22
26 22	13 00-0267	EA	300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	17,873.30	2,243.04
26 22	13 00-0268	EA	500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	20,791.66	2,523.67
26 22	13 00-0269	EA	750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	24,572.31	2,656.42
26 22	13 00-0270	EA	1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	30,539.47	3,881.41
26 22	13 00-0271	EA	1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	37,942.31	4,391.19
26 22	13 00-0272	EA	2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	45,757.37	5,047.35
26 22	13 00-0273	EA	2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	51,602.56	5,299.72
26 22 13 00-0274 Foam Core Poly Transformer Pads (26 22 13)					
26 22	13 00-0275	EA	Single Phase Foam Core Poly Pads.....	151.60	32.63
Note: Excludes site prep.					
26 24 Switchboards And Panelboards (26 20)					
26 24 13 Switchboards (26 24)					
Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.					
26 24 13 00-0001 Fusible Switch Type 240 Volt, 3 Phase, 3 Wire (26 24 13)					
26 24 13 00-0002 Incoming Service Section Main Device Only (26 24 13 00-0001)					
Note: Copper bus, non-metering type, with fuses.					
26 24	13 00-0003	EA	400 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire.....	3,639.95	844.10
26 24	13 00-0004	EA	600 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire.....	4,041.00	892.84
26 24	13 00-0005	EA	800 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire.....	6,654.99	1,012.79
26 24	13 00-0006	EA	1,200 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire.....	7,170.38	1,085.74
26 24	13 00-0007	EA	1,600 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire.....	11,679.82	1,157.63
26 24	13 00-0008	EA	2,000 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire.....	13,042.81	1,230.88
26 24	13 00-0009	EA	400 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	4,460.01	844.10
26 24	13 00-0010	EA	600 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	5,769.29	892.84
26 24	13 00-0011	EA	800 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	8,110.48	1,013.66
26 24	13 00-0012	EA	1,200 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	11,184.21	1,085.74
26 24	13 00-0013	EA	1,600 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	11,679.82	1,157.79
26 24	13 00-0014	EA	2,000 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	13,042.81	1,230.88
26 24	13 00-0015	EA	2,500 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	15,733.76	1,286.85
26 24	13 00-0016	EA	3,000 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	17,856.62	1,378.62
26 24	13 00-0017	EA	4,000 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....	21,122.01	1,486.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0018 EA 400 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....	2,418.34	747.89
26 24 13 00-0019 EA 600 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....	2,681.73	796.23
26 24 13 00-0020 EA 800 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....	3,070.26	916.57
26 24 13 00-0021 EA 1,000 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....	3,318.65	955.08
26 24 13 00-0022 EA 1,200 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....	3,542.77	989.53
26 24 13 00-0023 EA 1,600 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....	3,889.48	1,060.94
26 24 13 00-0024 EA 2,000 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....	4,207.21	1,133.70
26 24 13 00-0025 Branch Breaker Units (26 24 13 00-0001)		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0026 EA 15 - 60 Amp MC Branch Breaker, 240 Volt.....	325.01	29.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.66	
26 24 13 00-0027 EA 70 - 100 Amp MC Branch Breaker, 240 Volt.....	475.23	46.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.79	
26 24 13 00-0028 EA 125 - 225 Amp MC Branch Breaker, 240 Volt.....	1,288.35	84.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.66	
26 24 13 00-0029 EA 100 - 400 Amp MC Branch Breaker, 240 Volt.....	2,299.30	110.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.01	
26 24 13 00-0030 EA 300 - 600 Amp MC Branch Breaker, 240 Volt.....	4,073.43	270.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	162.10	
26 24 13 00-0031 EA 400 - 800 Amp MC Branch Breaker, 240 Volt.....	6,570.22	270.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	162.10	
26 24 13 00-0032 EA 600 - 1,200 Amp MC Branch Breaker, 240 Volt.....	10,639.21	481.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	288.93	
26 24 13 00-0033 Fusible Switch Type 480 Volt, 3 Phase, 3 Wire (26 24 13)		
26 24 13 00-0034 Incoming Service Section Main Device Only (26 24 13 00-0033)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0035 EA 400 Amp Distribution Switchboard With Main Switch, 480 Volt, 3 Phase, 3 Wire.....	5,164.79	1,095.30
26 24 13 00-0036 EA 600 Amp Distribution Switchboard With Main Switch, 480 Volt, 3 Phase, 3 Wire.....	5,786.56	1,095.30
26 24 13 00-0037 EA 800 Amp Distribution Switchboard With Main Switch, 480 Volt, 3 Phase, 3 Wire.....	8,710.95	1,423.40
26 24 13 00-0038 EA 1,200 Amp Distribution Switchboard With Main Switch, 480 Volt, 3 Phase, 3 Wire.....	9,896.29	1,423.40
26 24 13 00-0039 Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire (26 24 13)		
26 24 13 00-0040 Incoming Service Section Main Device Only (26 24 13 00-0039)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0041 EA 200/400 Amp Distribution Switchboard With Main Switch, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,278.87	747.89
26 24 13 00-0042 EA 600 Amp Distribution Switchboard With Main Switch, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,661.74	796.23
26 24 13 00-0043 EA 800 Amp Distribution Switchboard With Main Switch, 120 / 240 Volt, 1 Phase, 3 Wire.....	5,700.70	916.57
26 24 13 00-0044 EA 1,200 Amp Distribution Switchboard With Main Switch, 120 / 240 Volt, 1 Phase, 3 Wire.....	6,195.93	988.76
26 24 13 00-0045 EA 200/400 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	4,057.35	747.89
26 24 13 00-0046 EA 600 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	5,168.80	796.23
26 24 13 00-0047 EA 800 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	7,317.54	916.57
26 24 13 00-0048 EA 1,200 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	10,605.66	988.76
26 24 13 00-0049 EA 2,000 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	12,466.13	1,109.77
26 24 13 00-0050 EA 200/400 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	2,257.46	651.29
26 24 13 00-0051 EA 600 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	2,538.83	699.73
26 24 13 00-0052 EA 800 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	2,980.79	820.08
26 24 13 00-0053 EA 1,000 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,215.85	858.58
26 24 13 00-0054 EA 1,200 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,444.17	892.84
26 24 13 00-0055 EA 1,600 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,741.60	955.08
26 24 13 00-0056 EA 2,000 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	4,033.39	1,012.79
26 24 13 00-0057 EA 2,500 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	5,007.76	1,254.52
26 24 13 00-0058 EA 3,000 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	5,613.64	1,375.15
26 24 13 00-0059 EA 4,000 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	6,645.47	1,483.71
26 24 13 00-0060 Branch Breaker Units (26 24 13 00-0039)		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 2 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0061 EA 15 - 60 Amp MC Branch Breaker, 120 / 240 Volt.....	171.91	25.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.35	
26 24 13 00-0062 EA 70 - 100 Amp MC Branch Breaker, 120 / 240 Volt.....	272.55	42.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.48	
26 24 13 00-0063 EA 125 - 225 Amp MC Branch Breaker, 120 / 240 Volt.....	850.61	59.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.61	
26 24 13 00-0064 EA 100 - 400 Amp MC Branch Breaker, 120 / 240 Volt.....	2,472.94	76.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.74	
26 24 13 00-0065 EA 300 - 600 Amp MC Branch Breaker, 120 / 240 Volt.....	3,876.33	185.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.45	
26 24 13 00-0066 EA 400 - 800 Amp MC Branch Breaker, 120 / 240 Volt.....	5,533.10	185.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.45	
26 24 13 00-0067 EA 600 - 1,200 Amp MC Branch Breaker, 120 / 240 Volt.....	9,109.64	354.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	212.81	
26 24 13 00-0068 Fusible Switch Type 120/208 Volt, 3 Phase, 4 Wire (26 24 13)		



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0069			Incoming Service Section Main Device Only <small>(26 24 13 00-0068)</small> Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0070	EA		400 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire	3,641.13	844.10
26 24 13 00-0071	EA		600 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire	4,039.68	892.84
26 24 13 00-0072	EA		800 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire	6,653.28	1,012.79
26 24 13 00-0073	EA		1,200 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire	7,168.42	1,085.74
26 24 13 00-0074	EA		1,600 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire	11,675.37	1,157.63
26 24 13 00-0075	EA		2,000 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire	13,042.80	1,230.88
26 24 13 00-0076	EA		400 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	4,461.19	844.10
26 24 13 00-0077	EA		600 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	5,767.97	892.84
26 24 13 00-0078	EA		800 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	8,110.48	1,013.66
26 24 13 00-0079	EA		1,200 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	11,182.25	1,085.74
26 24 13 00-0080	EA		1,600 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	11,677.59	1,158.79
26 24 13 00-0081	EA		2,000 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	13,042.80	1,230.88
26 24 13 00-0082	EA		400 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	2,548.63	747.89
26 24 13 00-0083	EA		600 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	2,861.63	796.23
26 24 13 00-0084	EA		800 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,340.30	916.57
26 24 13 00-0085	EA		1,000 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,603.53	955.08
26 24 13 00-0086	EA		1,200 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,858.78	989.53
26 24 13 00-0087	EA		1,600 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	4,192.81	1,060.94
26 24 13 00-0088	EA		2,000 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	4,531.35	1,133.70
26 24 13 00-0089	EA		2,500 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	5,396.40	1,288.30
26 24 13 00-0090	EA		3,000 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	5,985.14	1,378.53
26 24 13 00-0091	EA		4,000 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	7,111.12	1,481.30
26 24 13 00-0092			Branch Breaker Units <small>(26 24 13 00-0089)</small> Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 120/208 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0093	EA		15 - 60 Amp MC Branch Breaker, 120/208 Volt.....	325.01	29.44
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.66	
26 24 13 00-0094	EA		70 - 100 Amp MC Branch Breaker, 120/208 Volt.....	475.23	46.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.79	
26 24 13 00-0095	EA		125 - 225 Amp MC Branch Breaker, 120/208 Volt.....	1,288.35	84.44
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.66	
26 24 13 00-0096	EA		100 - 400 Amp MC Branch Breaker, 120/208 Volt.....	2,299.30	110.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.01	
26 24 13 00-0097	EA		300 - 600 Amp MC Branch Breaker, 120/208 Volt.....	4,073.43	270.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.10	
26 24 13 00-0098	EA		400 - 800 Amp MC Branch Breaker, 120/208 Volt.....	6,570.22	270.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.10	
26 24 13 00-0099	EA		600 - 1,200 Amp MC Branch Breaker, 120/208 Volt.....	10,639.21	481.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	288.93	
26 24 13 00-0100			Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire <small>(26 24 13)</small>		
26 24 13 00-0101			Incoming Service Section Main Device Only <small>(26 24 13 00-0100)</small> Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0102	EA		400 Amp Distribution Switchboard With Main Switch, 480 / 277 Volt, 3 Phase, 4 Wire	4,700.65	1,157.63
26 24 13 00-0103	EA		600 Amp Distribution Switchboard With Main Switch, 480 / 277 Volt, 3 Phase, 4 Wire	5,171.49	1,230.88
26 24 13 00-0104	EA		800 Amp Distribution Switchboard With Main Switch, 480 / 277 Volt, 3 Phase, 4 Wire	7,470.22	1,373.89
26 24 13 00-0105	EA		1,200 Amp Distribution Switchboard With Main Switch, 480 / 277 Volt, 3 Phase, 4 Wire	8,175.24	1,471.07
26 24 13 00-0106	EA		400 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	6,092.93	1,157.63
26 24 13 00-0107	EA		600 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	8,292.07	1,230.88
26 24 13 00-0108	EA		800 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	9,401.27	1,375.43
26 24 13 00-0109	EA		1,200 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	11,952.87	1,471.07
26 24 13 00-0110	EA		1,600 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	12,497.32	1,568.64
26 24 13 00-0111	EA		2,000 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	13,913.26	1,666.10
26 24 13 00-0112	EA		400 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	2,548.63	747.89
26 24 13 00-0113	EA		600 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	2,861.63	796.23
26 24 13 00-0114	EA		800 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	3,340.30	916.57
26 24 13 00-0115	EA		1,000 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	3,603.53	955.08
26 24 13 00-0116	EA		1,200 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	3,858.78	989.53
26 24 13 00-0117	EA		1,600 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	4,192.81	1,060.94
26 24 13 00-0118	EA		2,000 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	4,531.35	1,133.70
26 24 13 00-0119			Branch Breaker Units <small>(26 24 13 00-0100)</small> Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0120	EA		15 - 60 Amp MC Branch Breaker, 480 / 277 Volt.....	682.64	29.44
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.66	
26 24 13 00-0121	EA		70 - 100 Amp MC Branch Breaker, 480 / 277 Volt.....	782.96	46.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.79	
26 24 13 00-0122	EA		125 - 225 Amp MC Branch Breaker, 480 / 277 Volt.....	1,419.76	84.44
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.66	
26 24 13 00-0123	EA		100 - 400 Amp MC Branch Breaker, 480 / 277 Volt.....	2,299.30	110.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.01	
26 24 13 00-0124	EA		300 - 600 Amp MC Branch Breaker, 480 / 277 Volt.....	5,507.30	270.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0125 EA 400 - 800 Amp MC Branch Breaker, 480 / 277 Volt..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,635.38 162.10	270.21
26 24 13 00-0126 EA 600 - 1,200 Amp MC Branch Breaker, 480 / 277 Volt..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,027.36 288.93	481.55
26 24 13 00-0127 Fusible Branch Circuit Switch <small>(26 24 13)</small> Note: Includes switch fuses, and portion of distribution section occupied by that branch device.		
26 24 13 00-0128 240 Volt, 2 Pole Twin Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0129 EA 30/30 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	689.08 290.80	75.76
26 24 13 00-0130 EA 30/60 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	686.59 290.80	75.76
26 24 13 00-0131 EA 60/60 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	686.59 290.80	75.76
26 24 13 00-0132 EA 60/100 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,083.55 290.80	99.88
26 24 13 00-0133 EA 100/100 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,083.55 290.80	99.88
26 24 13 00-0134 240 Volt, 2 Pole Single Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0135 EA 100 Amp, 240 Volt, 2 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	792.11 278.58	74.30
26 24 13 00-0136 EA 200 Amp, 240 Volt, 2 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,165.67 278.58	74.30
26 24 13 00-0137 EA 400 Amp, 240 Volt, 2 Pole Single Branch Switch Unit.....	2,993.22	200.24
26 24 13 00-0138 240 Volt, 3 Pole Twin Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0139 EA 30/30 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	886.70 290.80	85.40
26 24 13 00-0140 EA 30/60 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	884.22 290.80	85.40
26 24 13 00-0141 EA 60/60 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	884.22 290.80	85.40
26 24 13 00-0142 EA 60/100 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,336.48 290.80	114.35
26 24 13 00-0143 EA 100/100 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,336.48 290.80	114.35
26 24 13 00-0144 240 Volt, 3 Pole Single Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0145 EA 100 Amp, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	961.26 290.80	83.96
26 24 13 00-0146 EA 200 Amp, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,570.22 278.58	83.96
26 24 13 00-0147 EA 400 Amp, 240 Volt, 3 Pole Single Branch Switch Unit.....	4,022.71	224.17
26 24 13 00-0148 EA 600 Amp, 240 Volt, 3 Pole Single Branch Switch Unit.....	5,754.99	287.19
26 24 13 00-0149 EA 800 Amp, 240 Volt, 3 Pole Single Branch Switch Unit.....	10,757.38	389.10
26 24 13 00-0150 600 Volt, 3 Pole Twin Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0151 EA 30/30 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,263.80 290.80	85.40
26 24 13 00-0152 EA 30/60 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,261.28 290.80	85.40
26 24 13 00-0153 EA 60/60 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,263.80 290.80	85.40
26 24 13 00-0154 EA 60/100 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,905.45 290.80	114.35
26 24 13 00-0155 EA 100/100 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,947.56 290.80	114.35
26 24 13 00-0156 EA 200/200 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	4,176.39 290.80	149.58
26 24 13 00-0157 600 Volt, 3 Pole, Single Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0158 EA 100 Amp, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,367.40 290.80	83.96
26 24 13 00-0159 EA 200 Amp, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	2,085.84 278.58	83.96
26 24 13 00-0160 EA 400 Amp, 600 Volt, 3 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	5,068.60 278.58	224.17
26 24 13 00-0161 EA 600 Amp, 600 Volt, 3 Pole Single Branch Switch Unit.....	6,150.87	287.19
26 24 13 00-0162 EA 800 Amp, 600 Volt, 3 Pole Single Branch Switch Unit.....	10,757.38	389.10
26 24 13 00-0163 Service And Distribution Structures <small>(26 24 13)</small>		
26 24 13 00-0164 Distribution Section 600 Volts, 250 Volts DC <small>(26 24 13 00-0163)</small>		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards And Panelboards



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 24 13 00-0165	600 Amp Main Bus, 4 Wire <small>(26 24 13 00-0164)</small>		
26 24 13 00-0166	EA 14 Watt Distribution Section, 600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	2,342.93	887.82
26 24 13 00-0167	EA 24 - 30 Watt Distribution Section, 600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	2,814.30	887.82
26 24 13 00-0168	EA 34 - 38 Watt Distribution Section, 600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,133.68	1,129.07
26 24 13 00-0169	EA 42 - 48 Watt Distribution Section, 600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,445.44	1,129.07
26 24 13 00-0170	800 Amp Main Bus, 4 Wire <small>(26 24 13 00-0164)</small>		
26 24 13 00-0171	EA 14 Watt Distribution Section, 800 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	2,626.65	1,027.75
26 24 13 00-0172	EA 24 - 30 Watt Distribution Section, 800 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,085.69	1,027.75
26 24 13 00-0173	EA 34 - 38 Watt Distribution Section, 800 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,445.44	1,273.82
26 24 13 00-0174	EA 42 - 48 Watt Distribution Section, 800 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,725.50	1,273.82
26 24 13 00-0175	1,200 Amp Main Bus, 4 Wire <small>(26 24 13 00-0164)</small>		
26 24 13 00-0176	EA 14 Watt Distribution Section, 1,200 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,065.77	1,254.52
26 24 13 00-0177	EA 24 - 30 Watt Distribution Section, 1,200 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,535.35	1,254.52
26 24 13 00-0178	EA 34 - 38 Watt Distribution Section, 1,200 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,916.97	1,544.03
26 24 13 00-0179	EA 42 - 48 Watt Distribution Section, 1,200 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,327.27	1,544.03
26 24 13 00-0180	1,600 Amp Main Bus, 4 Wire <small>(26 24 13 00-0164)</small>		
26 24 13 00-0181	EA 14 Watt Distribution Section, 1,600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,840.04	1,375.15
26 24 13 00-0182	EA 24 - 30 Watt Distribution Section, 1,600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,393.95	1,375.15
26 24 13 00-0183	EA 34 - 38 Watt Distribution Section, 1,600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,845.49	1,698.43
26 24 13 00-0184	EA 42 - 48 Watt Distribution Section, 1,600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,202.91	1,698.43
26 24 13 00-0185	2,000 Amp Main Bus, 4 Wire <small>(26 24 13 00-0164)</small>		
26 24 13 00-0186	EA 14 Watt Distribution Section, 2,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,018.94	1,379.97
26 24 13 00-0187	EA 24 - 30 Watt Distribution Section, 2,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,614.88	1,553.68
26 24 13 00-0188	EA 34 - 38 Watt Distribution Section, 2,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,721.77	1,553.68
26 24 13 00-0189	EA 42 - 48 Watt Distribution Section, 2,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,911.14	1,640.53
26 24 13 00-0190	3,000 Amp Main Bus, 4 Wire <small>(26 24 13 00-0164)</small>		
26 24 13 00-0191	EA 24 - 30 Watt Distribution Section, 3,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,631.07	1,553.68
26 24 13 00-0192	EA 34 - 38 Watt Distribution Section, 3,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,736.36	1,553.68
26 24 13 00-0193	EA 42 - 48 Watt Distribution Section, 3,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,925.73	1,640.53
26 24 13 00-0194	4,000 Amp Main Bus, 4 Wire <small>(26 24 13 00-0164)</small>		
26 24 13 00-0195	EA 24 - 30 Watt Distribution Section, 4,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,754.79	1,640.53
26 24 13 00-0196	EA 34 - 38 Watt Distribution Section, 4,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,925.73	1,640.53
26 24 13 00-0197	EA 42 - 48 Watt Distribution Section, 4,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,994.11	1,640.53
26 24 13 00-0198	Pull Boy, Horizontal Mounted Across Top Of Switch Board <small>(26 24 13 00-0164)</small>		
26 24 13 00-0199	EA 18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard.....	518.12	115.80
26 24 13 00-0200	EA Drilled Bottom.....	583.75	115.80
26 24 13 00-0201	EA Cable Supports In Pull Box.....	213.14	28.95
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>16.08</i>	
26 24 13 00-0202	Underground Pull Sections <small>(26 24 13 00-0164)</small>		
	Note: Excludes no bus or terminal.		
26 24 13 00-0203	EA 12 - 20" Wide, 15 - 20" Deep Underground Pull Section Without Bus Or Terminal.....	497.60	135.10
26 24 13 00-0204	EA 24 - 28" Wide, 20" Deep Underground Pull Section Without Bus Or Terminal.....	871.45	173.70
26 24 13 00-0205	EA 24 - 28" Wide, 30" Deep Underground Pull Section Without Bus Or Terminal.....	871.45	173.70
26 24 13 00-0206	EA 14 - 20" Wide, 36" Deep Underground Pull Section Without Bus Or Terminal.....	648.89	135.10
26 24 13 00-0207	EA 28 - 30" Wide, 36" Deep Underground Pull Section Without Bus Or Terminal.....	935.22	197.83
26 24 13 00-0208	EA 14 - 20" Wide, 42 - 60" Deep Underground Pull Section Without Bus Or Terminal.....	1,064.74	197.83
26 24 13 00-0209	EA 26 - 30" Wide, 42 - 60" Deep Underground Pull Section Without Bus Or Terminal.....	1,112.65	255.73
26 24 13 00-0210	EA 38" Wide, 42 - 60" Deep Underground Pull Section Without Bus Or Terminal.....	1,171.04	255.73
26 24 13 00-0211	Switchboard Sections <small>(26 24 13 00-0163)</small>		
26 24 13 00-0212	EA 600 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	4,050.94	804.15
26 24 13 00-0213	EA 800 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	4,438.60	874.11
26 24 13 00-0214	EA 1,200 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	5,561.40	1,116.91
26 24 13 00-0215	EA 1,600 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	6,083.09	1,218.43
26 24 13 00-0216	EA 2,000 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	6,488.12	1,297.08
26 24 13 00-0217	EA 400 Amp Switchboard Incoming For Switch Circuit Section 480 Volt.....	4,880.02	705.43
26 24 13 00-0218	EA Distribution Section Subfeeder Lug-Rated At 200 Amp.....	2,713.81	670.11
26 24 13 00-0219	EA Distribution Section Subfeeder Lug-Rated At 400 Amp.....	3,010.92	726.66
26 24 13 00-0220	EA Distribution Section Aluminum Bus 120/208 Or 277/480 Volt, 4 Wire.....	4,571.64	804.15
26 24 13 00-0221	EA 800 Amp Switchboard Distribution Section Aluminum Bus Less Breaker.....	4,934.66	806.27
26 24 13 00-0222	EA 1,000 Amp Switchboard Distribution Section Aluminum Bus Less Breaker.....	5,429.64	900.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0223 EA 15 To 60 Amp, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame.....	149.21	48.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>29.47</i>	
26 24 13 00-0224 EA 70 To 100 Amp, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame.....	182.58	49.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>34.81</i>	
26 24 13 00-0225 EA 70 To 225 Amp, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame	880.10	58.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>75.00</i>	
26 24 13 00-0226 EA 125 To 400 Amp, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame.....	1,466.76	124.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>104.44</i>	
26 24 13 00-0227 EA 100 Amp, Switchboard Feed Section Branch Circuit Breaker, 240 Volt HIC 3 Phase	576.28	174.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>60.32</i>	
26 24 13 00-0228 EA 225 Amp, Switchboard Feed Section Branch Circuit Breaker, 240 Volt HIC 3 Phase	1,665.99	100.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>75.00</i>	
26 24 13 00-0229 Switchboard, Structure Per Section Copper, 480 Volt (26 24 13 00-0163)		
26 24 13 00-0230 EA 225 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	2,099.51	418.81
26 24 13 00-0231 EA 400 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	2,993.64	566.37
26 24 13 00-0232 EA 600 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	3,345.40	689.31
26 24 13 00-0233 EA 800 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	4,195.76	965.01
26 24 13 00-0234 EA 1,200 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	5,196.75	1,206.27
26 24 13 00-0235 EA 1,600 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	5,757.56	1,206.27
26 24 13 00-0236 EA 2,000 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	7,078.90	1,608.39
26 24 13 00-0237 EA 2,500 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	8,154.23	1,608.39
26 24 13 00-0238 EA 3,000 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	9,583.02	1,914.69
26 24 13 00-0239 EA 4,000 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	11,561.73	1,914.69
26 24 13 00-0240 Main Devices (26 24 13)		
26 24 13 00-0241 Power Circuit Breakers (26 24 13 00-0240)		
26 24 13 00-0242 DSL Breaker With Current Limiters And Amptector (26 24 13 00-0241)		
Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0243 EA 50 - 800 Amp DSL-206, Main Breaker With Current Limiter, Amptector Static Trip.....	7,481.25	1,013.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>606.68</i>	
26 24 13 00-0244 EA 50 - 1,600 Amp DSL-416, Main Breaker With Current Limiter, Amptector Static Trip.....	13,690.78	1,688.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,012.26</i>	
26 24 13 00-0245 EA 1,200 - 3,200 Amp DSL-632, Main Breaker With Current Limiter, Amptector Static Trip.....	31,080.90	2,837.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,687.09</i>	
26 24 13 00-0246 EA 4,000 Amp DSL-840, Main Breaker With Current Limiter, Amptector Static Trip.....	50,033.42	4,593.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>2,805.28</i>	
26 24 13 00-0247 EA Ground-Fault Trip All Power Breakers - Factory Installed.....	2,692.81	
26 24 13 00-0248 EA Key Interlock All Power Breakers - Factory Installed.....	347.77	
26 24 13 00-0249 EA Short Time Delay Selective Trip - Factory Installed.....	456.25	
26 24 13 00-0250 EA Shunt Trip Manually Open Breakers - Factory Installed.....	328.62	
26 24 13 00-0251 DSL Breaker Electrical Operated And Amptector (26 24 13 00-0241)		
Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0252 EA 50 - 800 Amp DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip.....	8,794.94	1,061.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>639.93</i>	
26 24 13 00-0253 EA 50 - 1,600 Amp DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip.....	16,388.59	1,785.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,065.92</i>	
26 24 13 00-0254 EA 1,200 - 3,200 Amp DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip.....	34,967.69	2,943.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,773.93</i>	
26 24 13 00-0255 EA 4,000 Amp DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip.....	53,910.43	4,825.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>2,966.24</i>	
26 24 13 00-0256 DS Breakers With Amptector Static Trip, Manually Operated (26 24 13 00-0241)		
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.		
26 24 13 00-0257 EA 50 - 800 Amp DS-206, Main Breaker With Groundfault, Amptector Static Trip.....	5,923.73	926.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>556.74</i>	
26 24 13 00-0258 EA 50 - 1,600 Amp DS-416, Main Breaker With Groundfault, Amptector Static Trip.....	10,876.30	1,553.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>927.90</i>	
26 24 13 00-0259 EA 2,000 Amp DS-420, Main Breaker With Groundfault, Amptector Static Trip.....	16,049.08	2,605.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,546.50</i>	
26 24 13 00-0260 EA 1,200 - 3,200 AMP DS-632, Main Breaker With Groundfault, Amptector Static Trip.....	27,736.73	4,197.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>2,575.67</i>	
26 24 13 00-0261 EA 4,000 Amp DS-840, Main Breaker With Groundfault, Amptector Static Trip.....	45,099.14	6,851.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>4,282.62</i>	
26 24 13 00-0262 DS Breakers With Amptector Static Trip, Electrically Operated (26 24 13 00-0241)		
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated.		
26 24 13 00-0263 EA 50 - 800 Amp DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	7,040.78	887.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>531.01</i>	
26 24 13 00-0264 EA 50 - 1,600 Amp DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	13,184.55	1,486.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>884.80</i>	
26 24 13 00-0265 EA 2,000 Amp DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	18,684.32	2,470.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,477.07</i>	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0266 EA 1,200 - 3,200 Amp DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	30,826.80	4,024.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,461.78	
26 24 13 00-0267 EA 4,000 Amp DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	48,096.79	6,899.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,112.29	
26 24 13 00-0268 Molded Case Circuit Breakers Conventional (26 24 13 00-0241)		
26 24 13 00-0269 EA 70 - 225 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	2,419.52	810.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	466.94	
26 24 13 00-0270 EA 125 - 400 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	3,612.12	810.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	507.90	
26 24 13 00-0271 EA 300 - 600 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	4,009.41	965.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	556.74	
26 24 13 00-0272 EA 400 - 800 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	4,791.00	965.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	603.14	
26 24 13 00-0273 EA 600 - 1,200 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	7,209.18	1,158.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	660.97	
26 24 13 00-0274 EA 1,000 - 2,000 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	11,793.15	1,158.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	731.07	
26 24 13 00-0275 EA Shunt Trip, Factory Installed.....	344.58	
26 24 13 00-0276 EA Groundfault Trip Complete Interrupting Circuit, Factory Installed.....	79.76	
26 24 13 00-0277 Switchboard Branch Breaker 480 Volt (26 24 13 00-0240)		
26 24 13 00-0278 EA 60 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	527.40	69.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.96	
26 24 13 00-0279 EA 100 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	619.41	92.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.67	
26 24 13 00-0280 EA 225 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	1,824.43	139.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.87	
26 24 13 00-0281 EA 400 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,414.02	175.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.20	
26 24 13 00-0282 EA 600 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,915.89	235.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	141.08	
26 24 13 00-0283 EA 800 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	3,516.97	301.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	180.94	
26 24 13 00-0284 EA 1,000 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	5,663.47	459.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	275.72	
26 24 13 00-0285 EA 1,200 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	5,663.47	459.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	275.72	
26 24 13 00-0286 EA 1,600 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	7,943.66	643.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	386.01	
26 24 13 00-0287 EA 2,000 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	9,869.99	965.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	579.01	
26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker (26 24 13 00-0240)		
26 24 13 00-0289 EA 400 Amp, Switchboard 277/480 Volt Main Breaker.....	6,459.02	418.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	251.31	
26 24 13 00-0290 EA 600 Amp, Switchboard 277/480 Volt Main Breaker.....	6,538.64	458.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	275.19	
26 24 13 00-0291 EA 800 Amp, Switchboard 277/480 Volt Main Breaker.....	6,999.93	689.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	413.58	
26 24 13 00-0292 EA 1,200 Amp, Switchboard 277/480 Volt Main Breaker.....	12,028.58	965.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	579.01	
26 24 13 00-0293 EA 1,600 Amp, Switchboard 277/480 Volt Main Breaker.....	12,233.54	1,067.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	640.50	
26 24 13 00-0294 EA 2,000 Amp, Switchboard 277/480 Volt Main Breaker.....	16,019.11	1,914.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,148.83	
26 24 13 00-0295 Branch Or Distribution Devices (26 24 13)		
26 24 13 00-0296 3 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0297 EA 15 - 60 Amp, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	379.46	34.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 13 00-0298 EA 70 - 100 Amp, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	388.19	43.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.95	
26 24 13 00-0299 EA 125 - 150 Amp, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	902.94	52.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.74	
26 24 13 00-0300 EA 70 - 225 Amp, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,304.43	67.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.87	
26 24 13 00-0301 EA 125 - 400 Amp, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,832.24	83.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.59	
26 24 13 00-0302 EA 300 - 600 Amp, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,392.94	97.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.14	
26 24 13 00-0303 EA 900 - 1,000 Amp, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	3,629.80	110.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.53	
26 24 13 00-0304 2 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)		
Note: Includes certified refurbished circuit breakers.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0305 EA 15 - 60 Amp, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	262.72 17.37	26.06
26 24 13 00-0306 EA 70 - 100 Amp, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	338.30 23.16	34.74
26 24 13 00-0307 EA 125 - 150 Amp, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	894.69 28.95	43.42
26 24 13 00-0308 EA 70 - 225 Amp, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,405.03 31.85	48.25
26 24 13 00-0309 EA 125 - 400 Amp, 600 Volt, Type LBB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,492.17 41.98	62.73
26 24 13 00-0310 EA 900 - 1,000 Amp, 600 Volt, Type NB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,351.18 60.80	91.20
26 24 13 00-0311 Meter Devices And Instrumentation <small>(26 24 13)</small> Note: Factory installed accessories.		
26 24 13 00-0312 Instrument Transformers And Metering Compartments <small>(26 24 13 00-0311)</small>		
26 24 13 00-0313 EA 800 Amp And Below Primary Current Transformer, With Compartment	416.36	
26 24 13 00-0314 EA 1,000 - 1,500 Amp Primary Current Transformer, With Compartment	601.42	
26 24 13 00-0315 EA 2,000 - 6,000 Amp Primary Current Transformer, With Compartment	708.30	
26 24 13 00-0316 EA Potential Transformer With 200 VA Max	510.49	
26 24 13 00-0317 EA 5 To 800 Amp, Three Current Transformers	1,682.21	
26 24 13 00-0318 EA 1,000 To 1,500 Amp, Three Current Transformers	3,007.35	
26 24 13 00-0319 EA 2,000 To 4,000 Amp, Three Current Transformers	3,913.34	
26 24 13 00-0320 Instruments <small>(26 24 13 00-0311)</small>		
26 24 13 00-0321 EA AC Voltmeter	567.91	
26 24 13 00-0322 EA AC Ammeter	567.91	
26 24 13 00-0323 EA AC Wattmeter	1,517.10	
26 24 13 00-0324 EA Variometer	1,713.32	
26 24 13 00-0325 EA Power Factor Meter	1,368.74	
26 24 13 00-0326 EA Frequency Meter	1,510.72	
26 24 13 00-0327 EA AC Watt-hour Meter Indicating 1 Or 2 Element With Test Block And Plug Block	1,922.30	
26 24 13 00-0328 EA AC Watt-hour Meter Recording 2 Element With Recording KW Demand Type R-2	3,216.06	
26 24 13 00-0329 EA Weatherproof, Modify Meter	3,024.05	
26 24 13 00-0330 EA Control Switch Resistor Type 130 V	68.86	
26 24 13 00-0331 EA Metering Instrument Volt, Amp And Watt Hour	3,879.38	
26 24 16 Panelboards <small>(26 24)</small>		
26 24 16 00-0001 Branch Circuit Panelboard <small>(26 24 16)</small> Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.		
26 24 16 00-0002 Assembled Lighting And Power Panelboards <small>(26 24 16 00-0001)</small> Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit plug-on breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.		
26 24 16 00-0003 120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0004 EA 100 Amp Rating, 8 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 12 Circuit Capacity	1,107.30 845.98	275.03
<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0005 EA 100 Amp Rating, 10 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity	1,255.20 845.98	275.03
<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0006 EA 100 Amp Rating, 12 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity	1,422.52 845.98	381.18
<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0007 EA 100 Amp Rating, 14 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity	1,592.99 845.98	381.18
<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0008 EA 100 Amp Rating, 16 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity	1,752.46 845.98	477.69
<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0009 EA 100 Amp Rating, 18 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity	1,916.11 845.98	477.69
<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0010 EA 100 Amp Rating, 20 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity	2,074.54 845.98	550.06
<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0011 EA 225 Amp Rating, 22 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity	2,486.74 930.34 67.98	704.46
<i>For NEMA 3R Panelboard, Add</i>		
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0012 EA 225 Amp Rating, 24 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity	2,613.95 930.34 67.98	704.46
<i>For NEMA 3R Panelboard, Add</i>		
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards And Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0013	EA		225 Amp Rating, 26 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	2,740.81	805.79
			<i>For NEMA 3R Panelboard, Add</i>	930.34	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0014	EA		225 Amp Rating, 28 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	2,946.40	805.79
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0015	EA		225 Amp Rating, 30 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	3,074.01	907.11
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0016	EA		225 Amp Rating, 32 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	3,261.72	907.11
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0017	EA		225 Amp Rating, 34 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	3,374.28	1,003.62
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0018	EA		225 Amp Rating, 36 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	3,565.95	1,003.62
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0019	EA		225 Amp Rating, 38 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	3,739.42	1,109.77
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0020	EA		225 Amp Rating, 40 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	3,861.81	1,109.77
			<i>For NEMA 3R Panelboard, Add</i>	1,143.79	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0021	EA		225 Amp Rating, 42 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	4,033.91	1,109.77
			<i>For NEMA 3R Panelboard, Add</i>	1,143.79	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0022			120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0023	EA		50 Amp Rating, 8 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity.....	1,326.57	265.38
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0024	EA		50 Amp Rating, 10 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity.....	1,476.56	265.38
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0025	EA		100 Amp Rating, 12 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity.....	1,816.79	453.56
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0026	EA		100 Amp Rating, 14 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity.....	2,062.07	453.56
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0027	EA		100 Amp Rating, 16 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity.....	2,224.85	554.89
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0028	EA		100 Amp Rating, 18 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity.....	2,394.22	554.89
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0029	EA		100 Amp Rating, 20 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity.....	2,545.35	665.86
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0030	EA		225 Amp Rating, 22 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 30 Circuit Capacity.....	3,083.70	665.86
			<i>For NEMA 3R Panelboard, Add</i>	930.34	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0031	EA		225 Amp Rating, 24 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 30 Circuit Capacity.....	3,217.46	815.44
			<i>For NEMA 3R Panelboard, Add</i>	930.34	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0032	EA		225 Amp Rating, 26 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 30 Circuit Capacity.....	3,362.17	815.44
			<i>For NEMA 3R Panelboard, Add</i>	930.34	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0033	EA		225 Amp Rating, 28 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	3,520.00	916.76
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0034	EA		225 Amp Rating, 30 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	3,649.28	916.76
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0035	EA		225 Amp Rating, 32 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	3,786.67	1,003.62
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0036 EA 225 Amp Rating, 34 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	3,933.40	1,003.62
<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0037 EA 225 Amp Rating, 36 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	4,091.02	1,186.97
<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0038 EA 225 Amp Rating, 38 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	4,261.37	1,186.97
<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0039 EA 225 Amp Rating, 40 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity.....	4,446.77	1,186.97
<i>For NEMA 3R Panelboard, Add</i>	1,143.79	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0040 EA 225 Amp Rating, 42 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity.....	4,563.22	1,254.52
<i>For NEMA 3R Panelboard, Add</i>	1,143.79	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0041 120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0042 EA 100 Amp Rating, 8 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 12 Circuit Capacity.....	1,340.44	313.63
<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0043 EA 100 Amp Rating, 10 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	1,501.17	313.63
<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0044 EA 100 Amp Rating, 12 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	1,684.29	419.79
<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0045 EA 100 Amp Rating, 14 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	1,877.60	419.79
<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0046 EA 100 Amp Rating, 16 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	2,050.28	516.28
<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0047 EA 100 Amp Rating, 18 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity.....	2,234.46	516.28
<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0048 EA 100 Amp Rating, 20 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity.....	2,408.49	612.79
<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0049 EA 100 Amp Rating, 22 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	2,586.42	612.79
<i>For NEMA 3R Panelboard, Add</i>	930.34	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0050 EA 100 Amp Rating, 24 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	2,754.01	718.94
<i>For NEMA 3R Panelboard, Add</i>	930.34	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0051 EA 100 Amp Rating, 26 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	2,947.08	718.94
<i>For NEMA 3R Panelboard, Add</i>	930.34	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0052 EA 100 Amp Rating, 28 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	3,141.92	829.92
<i>For NEMA 3R Panelboard, Add</i>	930.34	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0053 EA 100 Amp Rating, 30 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	3,334.93	829.92
<i>For NEMA 3R Panelboard, Add</i>	930.34	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0054 EA 225 Amp Rating, 32 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	3,714.76	1,003.62
<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0055 EA 225 Amp Rating, 34 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	3,842.20	1,003.62
<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0056 EA 225 Amp Rating, 36 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	4,068.43	1,114.59
<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0057 EA 225 Amp Rating, 38 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	4,270.77	1,114.59
<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0058 EA 225 Amp Rating, 40 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	4,416.50	1,215.92
<i>For NEMA 3R Panelboard, Add</i>	1,143.79	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards And Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0059	EA		225 Amp Rating, 42 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	4,615.60	1,215.92
			<i>For NEMA 3R Panelboard, Add</i>	1,143.79	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0060	EA		400 Amp Rating, 32 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	4,524.61	1,078.89
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0061	EA		400 Amp Rating, 34 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	4,665.35	1,133.90
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0062	EA		400 Amp Rating, 36 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	4,901.25	1,194.21
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0063	EA		400 Amp Rating, 38 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	5,118.02	1,264.17
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0064	EA		400 Amp Rating, 40 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	5,272.07	1,302.77
			<i>For NEMA 3R Panelboard, Add</i>	1,143.79	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0065	EA		400 Amp Rating, 42 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	5,515.82	1,382.39
			<i>For NEMA 3R Panelboard, Add</i>	1,143.79	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0066			120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0062)</small>		
26 24 16 00-0067	EA		50 Amp Rating, 8 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity.....	1,611.98	303.98
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0068	EA		50 Amp Rating, 10 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity.....	1,774.67	303.98
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0069	EA		50 Amp Rating, 12 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity.....	1,969.88	400.48
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0070	EA		50 Amp Rating, 14 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity.....	2,247.43	400.48
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0071	EA		100 Amp Rating 16 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity.....	2,635.55	603.14
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0072	EA		100 Amp Rating, 18 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity.....	2,804.75	603.14
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0073	EA		100 Amp Rating, 20 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity.....	2,986.93	704.46
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0074	EA		100 Amp Rating, 22 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	3,137.34	704.46
			<i>For NEMA 3R Panelboard, Add</i>	930.34	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0075	EA		100 Amp Rating, 24 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	3,342.36	815.44
			<i>For NEMA 3R Panelboard, Add</i>	930.34	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0076	EA		100 Amp Rating, 26 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	3,480.00	815.44
			<i>For NEMA 3R Panelboard, Add</i>	930.34	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0077	EA		100 Amp Rating, 28 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	3,708.89	916.76
			<i>For NEMA 3R Panelboard, Add</i>	930.34	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0078	EA		100 Amp Rating, 30 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	3,906.78	916.76
			<i>For NEMA 3R Panelboard, Add</i>	930.34	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0079	EA		225 Amp Rating, 32 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	4,602.61	1,061.52
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0080	EA		225 Amp Rating, 34 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	4,803.25	1,119.42
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0081	EA		225 Amp Rating, 36 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	4,886.86	1,119.42
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0082 EA 225 Amp Rating, 38 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	5,111.16	1,264.17
<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0083 EA 225 Amp Rating, 40 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity.....	5,270.38	1,264.17
<i>For NEMA 3R Panelboard, Add</i>	1,143.79	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0084 EA 225 Amp Rating, 42 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity.....	5,371.26	1,264.17
<i>For NEMA 3R Panelboard, Add</i>	1,143.79	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0085 EA 400 Amp Rating, 32 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 42 Circuit Capacity.....	5,435.42	1,162.85
<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0086 EA 400 Amp Rating, 34 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 42 Circuit Capacity.....	5,653.93	1,230.39
<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0087 EA 400 Amp Rating, 36 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 42 Circuit Capacity.....	5,740.15	1,264.17
<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0088 EA 400 Amp Rating, 38 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 42 Circuit Capacity.....	5,981.71	1,341.38
<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0089 EA 400 Amp Rating, 40 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 54 Circuit Capacity.....	6,139.81	1,379.97
<i>For NEMA 3R Panelboard, Add</i>	1,143.79	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0090 EA 400 Amp Rating, 42 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 54 Circuit Capacity.....	6,286.12	1,428.23
<i>For NEMA 3R Panelboard, Add</i>	1,143.79	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0091 480 Volt, 3 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0092 EA 100 Amp Rating, 8 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 12 Circuit Capacity.....	1,523.58	308.80
<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0093 EA 100 Amp Rating, 10 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	1,737.66	308.80
<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0094 EA 100 Amp Rating, 12 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	1,943.47	424.61
<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0095 EA 100 Amp Rating, 14 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	2,157.53	424.61
<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0096 EA 100 Amp Rating, 16 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	2,358.07	530.76
<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0097 EA 100 Amp Rating, 18 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity.....	2,568.67	530.76
<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0098 EA 100 Amp Rating, 20 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity.....	2,787.85	641.73
<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0099 EA 100 Amp Rating, 22 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	2,989.85	641.73
<i>For NEMA 3R Panelboard, Add</i>	930.34	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0100 EA 100 Amp Rating, 24 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	3,210.60	762.37
<i>For NEMA 3R Panelboard, Add</i>	930.34	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0101 EA 100 Amp Rating, 26 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	3,424.17	762.37
<i>For NEMA 3R Panelboard, Add</i>	930.34	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0102 EA 100 Amp Rating, 28 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	3,621.63	868.52
<i>For NEMA 3R Panelboard, Add</i>	930.34	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0103 EA 100 Amp Rating, 30 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	3,832.21	868.52
<i>For NEMA 3R Panelboard, Add</i>	930.34	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0104 EA 225 Amp Rating, 32 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	4,276.87	1,056.69
<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0105	EA		225 Amp Rating, 34 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	4,487.23	1,056.69
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0106	EA		225 Amp Rating, 36 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	4,710.33	1,158.02
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0107	EA		225 Amp Rating, 38 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	4,876.81	1,158.02
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0108	EA		225 Amp Rating, 40 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	5,123.53	1,278.65
			<i>For NEMA 3R Panelboard, Add</i>	1,143.79	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0109	EA		225 Amp Rating, 42 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	5,303.51	1,278.65
			<i>For NEMA 3R Panelboard, Add</i>	1,143.79	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0110			480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0111	EA		50 Amp Rating, 8 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity.....	1,944.86	328.11
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0112	EA		50 Amp Rating, 10 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity.....	2,154.37	357.06
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0113	EA		50 Amp Rating, 12 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity.....	2,366.05	443.90
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0114	EA		100 Amp Rating, 14 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity.....	2,839.99	540.41
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0115	EA		100 Amp Rating, 16 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity.....	3,040.89	598.31
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0116	EA		100 Amp Rating, 18 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity.....	3,224.84	646.56
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0117	EA		100 Amp Rating, 20 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity.....	3,426.62	704.46
			<i>For NEMA 3R Panelboard, Add</i>	845.98	
26 24 16 00-0118	EA		100 Amp Rating, 22 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	3,621.13	762.37
			<i>For NEMA 3R Panelboard, Add</i>	930.34	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0119	EA		100 Amp Rating, 24 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	3,799.88	810.62
			<i>For NEMA 3R Panelboard, Add</i>	930.34	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0120	EA		100 Amp Rating, 26 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	3,990.99	858.86
			<i>For NEMA 3R Panelboard, Add</i>	930.34	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0121	EA		100 Amp Rating, 28 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	4,197.02	916.76
			<i>For NEMA 3R Panelboard, Add</i>	930.34	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0122	EA		100 Amp Rating, 30 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	4,421.34	989.14
			<i>For NEMA 3R Panelboard, Add</i>	930.34	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0123	EA		225 Amp Rating, 32 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	5,600.58	1,100.11
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0124	EA		225 Amp Rating, 34 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	5,816.06	1,167.67
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0125	EA		225 Amp Rating, 36 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	5,971.96	1,196.62
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0126	EA		225 Amp Rating, 38 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	6,213.08	1,273.82
			<i>For NEMA 3R Panelboard, Add</i>	1,098.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0127	EA		225 Amp Rating, 40 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity.....	6,383.61	1,322.07
			<i>For NEMA 3R Panelboard, Add</i>	1,143.79	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0128	EA			225 Amp Rating, 42 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,560.12 1,143.79 148.39	1,363.57
26 24 16 00-0129 277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>						
26 24 16 00-0130	EA			100 Amp Rating, 8 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 12 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	1,863.03 845.98	337.76
26 24 16 00-0131	EA			100 Amp Rating, 10 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	2,104.08 845.98	337.76
26 24 16 00-0132	EA			100 Amp Rating, 12 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	2,339.26 845.98	448.73
26 24 16 00-0133	EA			100 Amp Rating, 14 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	2,576.24 845.98	448.73
26 24 16 00-0134	EA			100 Amp Rating, 16 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	2,816.84 845.98	554.89
26 24 16 00-0135	EA			100 Amp Rating, 18 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	3,052.76 845.98	554.89
26 24 16 00-0136	EA			100 Amp Rating, 20 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	3,292.31 845.98	665.86
26 24 16 00-0137	EA			100 Amp Rating, 22 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,530.93 930.34 67.98	665.86
26 24 16 00-0138	EA			100 Amp Rating, 24 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,790.31 930.34 67.98	781.66
26 24 16 00-0139	EA			100 Amp Rating, 26 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,009.92 930.34 67.98	781.66
26 24 16 00-0140	EA			100 Amp Rating, 28 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,241.14 930.34 67.98	786.49
26 24 16 00-0141	EA			100 Amp Rating, 30 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,486.38 930.34 67.98	786.49
26 24 16 00-0142	EA			225 Amp Rating, 32 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,106.34 1,098.96 116.10	1,090.47
26 24 16 00-0143	EA			225 Amp Rating, 34 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,357.41 1,098.96 116.10	1,090.47
26 24 16 00-0144	EA			225 Amp Rating, 36 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,554.77 1,098.96 116.10	1,148.37
26 24 16 00-0145	EA			225 Amp Rating, 38 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,827.53 1,098.96 116.10	1,225.58
26 24 16 00-0146	EA			225 Amp Rating, 40 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,037.19 1,143.79 148.39	1,225.58
26 24 16 00-0147	EA			225 Amp Rating, 42 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,338.24 1,143.79 148.39	1,341.38
26 24 16 00-0148 277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>						
26 24 16 00-0149	EA			50 Amp Rating, 8 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	2,423.00 845.98	414.96
26 24 16 00-0150	EA			50 Amp Rating, 10 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	2,669.41 845.98	414.96
26 24 16 00-0151	EA			50 Amp Rating, 12 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	2,907.08 845.98	550.06

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards And Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0152	EA		100 Amp Rating, 14 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	3,460.16 845.98	550.06
26 24 16 00-0153	EA		100 Amp Rating, 16 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	3,687.51 845.98	694.82
26 24 16 00-0154	EA		100 Amp Rating, 18 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	3,914.51 845.98	694.82
26 24 16 00-0155	EA		100 Amp Rating, 20 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	4,134.24 845.98	796.14
26 24 16 00-0156	EA		100 Amp Rating, 22 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,338.21 930.34 67.98	796.14
26 24 16 00-0157	EA		100 Amp Rating, 24 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,554.54 930.34 67.98	907.11
26 24 16 00-0158	EA		100 Amp Rating, 26 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,785.77 930.34 67.98	907.11
26 24 16 00-0159	EA		100 Amp Rating, 28 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,986.30 930.34 67.98	1,003.62
26 24 16 00-0160	EA		100 Amp Rating, 30 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,196.17 930.34 67.98	1,003.62
26 24 16 00-0161	EA		225 Amp Rating, 32 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,842.77 1,098.96 116.10	1,186.97
26 24 16 00-0162	EA		225 Amp Rating, 34 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,095.50 1,098.96 116.10	1,186.97
26 24 16 00-0163	EA		225 Amp Rating, 36 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,285.13 1,098.96 116.10	1,297.94
26 24 16 00-0164	EA		225 Amp Rating, 38 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,566.17 1,098.96 116.10	1,297.94
26 24 16 00-0165	EA		225 Amp Rating, 40 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,772.10 1,143.79 148.39	1,418.58
26 24 16 00-0166	EA		225 Amp Rating, 42 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,984.61 1,143.79 148.39	1,418.58
26 24 16 00-0167	EA		400 Amp Rating, 42 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 54 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	9,508.39 1,143.79 148.39	1,579.74
26 24 16 00-0168	EA		600 Amp Rating, 42 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >400 To 600 Amp Main Breaker, 54 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	11,581.16 1,143.79 148.39	1,896.25
26 24 16 00-0169			Unassembled Lighting And Power Panelboards <small>(26 24 16 00-0001)</small> Note: Listed panelboards include the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device).		
26 24 16 00-0170			240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small> Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.		
26 24 16 00-0171			Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0172	EA		100 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	604.67	
26 24 16 00-0173	EA		100 Amp Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	694.19	
26 24 16 00-0174	EA		225 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	938.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0175 EA 225 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,081.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0176 EA 225 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,222.98	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0177 EA 400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,364.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0178 EA 400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,480.42	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0179 EA 400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,619.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0180 EA 600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,737.10	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0181 EA 600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,851.57	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0182 EA 600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,018.61	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0183 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0184 EA 100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	897.58	
26 24 16 00-0185 EA 100 Amp Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,014.43	
26 24 16 00-0186 EA 225 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,620.20	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0187 EA 225 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,795.91	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0188 EA 225 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,959.75	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0189 EA 400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	3,442.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0190 EA 400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	3,633.58	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0191 EA 400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	3,807.72	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0192 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0193 EA 100 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,240.78	
26 24 16 00-0194 EA 100 Amp Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,323.03	
26 24 16 00-0195 EA 225 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,552.19	
26 24 16 00-0196 EA 225 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,692.55	
26 24 16 00-0197 EA 225 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,822.13	
26 24 16 00-0198 EA 400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,081.39	
26 24 16 00-0199 EA 400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,189.22	
26 24 16 00-0200 EA 400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,321.24	
26 24 16 00-0201 EA 600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,494.36	
26 24 16 00-0202 EA 600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,604.57	
26 24 16 00-0203 EA 600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,760.38	
26 24 16 00-0204 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0205 EA 100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,526.41	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards And Panelboards



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0206	EA	100 Amp Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,635.39	
26 24 16 00-0207	EA	225 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,351.41	
26 24 16 00-0208	EA	225 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,512.59	
26 24 16 00-0209	EA	225 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,665.52	
26 24 16 00-0210	EA	400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	4,133.38	
26 24 16 00-0211	EA	400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	4,316.94	
26 24 16 00-0212	EA	400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	4,489.26	
26 24 16 00-0213		240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
		Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers		
26 24 16 00-0214		Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0215	EA	100 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	680.27	
26 24 16 00-0216	EA	100 Amp Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	798.83	
26 24 16 00-0217	EA	100 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	896.87	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0218	EA	225 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,010.49	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0219	EA	225 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,162.26	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0220	EA	225 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,285.90	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0221	EA	400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,481.96	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0222	EA	400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,595.45	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0223	EA	400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,720.00	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0224	EA	600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,867.67	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0225	EA	600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,064.28	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0226	EA	600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,450.48	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0227		Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0228	EA	100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,053.78	
26 24 16 00-0229	EA	100 Amp Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,187.63	
26 24 16 00-0230	EA	100 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,351.61	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0231	EA	225 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,014.12	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0232	EA	225 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,179.48	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0233	EA	225 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,329.95	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0234	EA	400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	3,239.41	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0235	EA	400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	3,415.41	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0236	EA	400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	3,562.04	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0237 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0238 EA 100 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,316.37	
26 24 16 00-0239 EA 100 Amp Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,427.66	
26 24 16 00-0240 EA 100 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,517.83	
26 24 16 00-0241 EA 225 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,624.18	
26 24 16 00-0242 EA 225 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,772.92	
26 24 16 00-0243 EA 225 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,885.05	
26 24 16 00-0244 EA 400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,198.64	
26 24 16 00-0245 EA 400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,304.25	
26 24 16 00-0246 EA 400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,421.53	
26 24 16 00-0247 EA 600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,624.94	
26 24 16 00-0248 EA 600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,807.61	
26 24 16 00-0249 EA 600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	3,193.81	
26 24 16 00-0250 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0251 EA 100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,682.61	
26 24 16 00-0252 EA 100 Amp Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,808.58	
26 24 16 00-0253 EA 100 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,968.32	
26 24 16 00-0254 EA 225 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,745.34	
26 24 16 00-0255 EA 225 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,896.15	
26 24 16 00-0256 EA 225 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	3,035.72	
26 24 16 00-0257 EA 400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	4,565.17	
26 24 16 00-0258 EA 400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	4,747.47	
26 24 16 00-0259 EA 400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	4,904.76	
26 24 16 00-0260 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small> Note: As manufactured by Square D or equal.		
26 24 16 00-0261 Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0262 EA 125 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	984.41	
26 24 16 00-0263 EA 125 Amp Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,077.54	
26 24 16 00-0264 EA 250 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,482.99	
For Door-In-Door (Hinged) Trim Front, Add	67.98	
26 24 16 00-0265 EA 250 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,651.19	
For Door-In-Door (Hinged) Trim Front, Add	116.10	
26 24 16 00-0266 EA 250 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,796.43	
For Door-In-Door (Hinged) Trim Front, Add	148.39	
26 24 16 00-0267 EA 400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,782.84	
For Door-In-Door (Hinged) Trim Front, Add	67.98	
26 24 16 00-0268 EA 400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,875.94	
For Door-In-Door (Hinged) Trim Front, Add	116.10	
26 24 16 00-0269 EA 400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,036.25	
For Door-In-Door (Hinged) Trim Front, Add	148.39	
26 24 16 00-0270 EA 600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,124.25	
For Door-In-Door (Hinged) Trim Front, Add	67.98	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0271	EA		600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,276.65	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0272	EA		600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,484.02	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0273			Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0274	EA		100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,033.34	
26 24 16 00-0275	EA		100 Amp Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,097.67	
26 24 16 00-0276	EA		125 Amp Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,276.24	
26 24 16 00-0277	EA		125 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,395.38	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0278	EA		125 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,626.28	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0279	EA		250 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,415.11	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0280	EA		250 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,561.73	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0281	EA		250 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,749.31	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0282	EA		400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,855.36	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	67.98	
26 24 16 00-0283	EA		400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,045.06	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	116.10	
26 24 16 00-0284	EA		400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,218.90	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	148.39	
26 24 16 00-0285			Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0286	EA		125 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,598.70	
26 24 16 00-0287	EA		125 Amp Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,691.84	
26 24 16 00-0288	EA		250 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,082.75	
26 24 16 00-0289	EA		250 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,356.36	
26 24 16 00-0290	EA		250 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,489.48	
26 24 16 00-0291	EA		400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,475.89	
26 24 16 00-0292	EA		400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,550.82	
26 24 16 00-0293	EA		400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,685.08	
26 24 16 00-0294	EA		600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,833.66	
26 24 16 00-0295	EA		600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,971.18	
26 24 16 00-0296	EA		600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,146.55	
26 24 16 00-0297			Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0298	EA		100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,778.49	
26 24 16 00-0299	EA		100 Amp Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,842.82	
26 24 16 00-0300	EA		125 Amp Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,881.45	
26 24 16 00-0301	EA		125 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,995.14	
26 24 16 00-0302	EA		125 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,331.45	
26 24 16 00-0303	EA		250 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,108.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0304 EA 250 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,236.60	
26 24 16 00-0305 EA 250 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,398.14	
26 24 16 00-0306 EA 400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,504.19	
26 24 16 00-0307 EA 400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,677.20	
26 24 16 00-0308 EA 400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,848.42	
26 24 16 00-0309 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal.		
26 24 16 00-0310 Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0311 EA 125 Amp, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	1,025.60	
26 24 16 00-0312 EA 125 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	1,119.35	
26 24 16 00-0313 EA 125 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	1,293.68	
For Door-In-Door (Hinged) Trim Front, Add	67.98	
26 24 16 00-0314 EA 250 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	1,543.60	
For Door-In-Door (Hinged) Trim Front, Add	67.98	
26 24 16 00-0315 EA 250 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	1,713.13	
For Door-In-Door (Hinged) Trim Front, Add	116.10	
26 24 16 00-0316 EA 250 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	1,857.18	
For Door-In-Door (Hinged) Trim Front, Add	148.39	
26 24 16 00-0317 EA 400 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	1,863.02	
For Door-In-Door (Hinged) Trim Front, Add	67.98	
26 24 16 00-0318 EA 400 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	1,975.30	
For Door-In-Door (Hinged) Trim Front, Add	116.10	
26 24 16 00-0319 EA 400 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	2,134.42	
For Door-In-Door (Hinged) Trim Front, Add	148.39	
26 24 16 00-0320 EA 600 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	2,222.68	
For Door-In-Door (Hinged) Trim Front, Add	67.98	
26 24 16 00-0321 EA 600 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	2,375.67	
For Door-In-Door (Hinged) Trim Front, Add	116.10	
26 24 16 00-0322 EA 600 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	2,583.76	
For Door-In-Door (Hinged) Trim Front, Add	148.39	
26 24 16 00-0323 Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0324 EA 100 Amp, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	2,245.38	
26 24 16 00-0325 EA 100 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	2,310.31	
26 24 16 00-0326 EA 100 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	2,502.27	
For Door-In-Door (Hinged) Trim Front, Add	67.98	
26 24 16 00-0327 EA 125 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	2,567.70	
26 24 16 00-0328 EA 125 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	2,687.36	
For Door-In-Door (Hinged) Trim Front, Add	67.98	
26 24 16 00-0329 EA 125 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	2,917.63	
For Door-In-Door (Hinged) Trim Front, Add	116.10	
26 24 16 00-0330 EA 250 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	3,757.04	
For Door-In-Door (Hinged) Trim Front, Add	67.98	
26 24 16 00-0331 EA 250 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	3,905.43	
For Door-In-Door (Hinged) Trim Front, Add	116.10	
26 24 16 00-0332 EA 250 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	4,091.05	
For Door-In-Door (Hinged) Trim Front, Add	148.39	
26 24 16 00-0333 EA 400 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	4,265.09	
For Door-In-Door (Hinged) Trim Front, Add	67.98	
26 24 16 00-0334 EA 400 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	4,456.68	
For Door-In-Door (Hinged) Trim Front, Add	116.10	
26 24 16 00-0335 EA 400 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	4,630.33	
For Door-In-Door (Hinged) Trim Front, Add	148.39	
26 24 16 00-0336 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0337 EA 125 Amp, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	1,639.89	
26 24 16 00-0338 EA 125 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	1,733.64	
26 24 16 00-0339 EA 125 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	1,898.88	
26 24 16 00-0340 EA 250 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,143.36	
26 24 16 00-0341 EA 250 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,418.29	
26 24 16 00-0342 EA 250 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,550.23	
26 24 16 00-0343 EA 400 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,557.89	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards And Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0344 EA 400 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,650.17	
26 24 16 00-0345 EA 400 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,783.24	
26 24 16 00-0346 EA 600 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,932.08	
26 24 16 00-0347 EA 600 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	3,069.93	
26 24 16 00-0348 EA 600 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	3,245.30	
26 24 16 00-0349 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0350 EA 100 Amp, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	2,845.13	
26 24 16 00-0351 EA 100 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	2,910.07	
26 24 16 00-0352 EA 100 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	3,207.44	
26 24 16 00-0353 EA 125 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	3,172.91	
26 24 16 00-0354 EA 125 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	3,287.11	
26 24 16 00-0355 EA 125 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	3,622.80	
26 24 16 00-0356 EA 250 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	4,450.09	
26 24 16 00-0357 EA 250 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	4,580.31	
26 24 16 00-0358 EA 250 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	4,739.87	
26 24 16 00-0359 EA 400 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	4,913.91	
26 24 16 00-0360 EA 400 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	5,088.54	
26 24 16 00-0361 EA 400 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	5,259.16	
26 24 16 00-0362 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small> Note: Square D I-Line or equal.		
26 24 16 00-0363 Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
26 24 16 00-0364 EA 400 Amp Rating, 27" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	1,707.54	287.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.31	
26 24 16 00-0365 EA 400 Amp Rating, 45" Breaker Mounted Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,011.24	287.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.26	
26 24 16 00-0366 EA 400 Amp Rating, 63" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,239.91	287.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.26	
26 24 16 00-0367 EA 600 Amp Rating, 27" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,520.94	471.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	282.88	
26 24 16 00-0368 EA 600 Amp Rating, 45" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,697.93	471.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	282.88	
26 24 16 00-0369 EA 600 Amp Rating, 63" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,892.15	471.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	282.88	
26 24 16 00-0370 EA 800 Amp Rating, 27" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,096.90	626.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	376.02	
26 24 16 00-0371 EA 800 Amp Rating, 45" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,266.76	628.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	377.17	
26 24 16 00-0372 EA 800 Amp Rating, 63" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,336.54	626.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	376.02	
26 24 16 00-0373 EA 800 Amp Rating, 99" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,898.05	626.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	376.02	
26 24 16 00-0374 EA 1,200 Amp Rating, 27" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,050.50	942.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	565.76	
26 24 16 00-0375 EA 1,200 Amp Rating, 45" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,432.66	942.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	565.76	
26 24 16 00-0376 EA 1,200 Amp Rating, 63" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,745.13	942.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	565.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0377 EA 1,200 Amp Rating, 99" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,126.52	942.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	565.76	
26 24 16 00-0378 Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
26 24 16 00-0379 EA 225 Amp Rating, 36" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,361.89	293.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	175.94	
26 24 16 00-0380 EA 400 Amp Rating, 27" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,425.84	332.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	199.57	
26 24 16 00-0381 EA 400 Amp Rating, 45" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,646.68	332.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	199.57	
26 24 16 00-0382 EA 400 Amp Rating, 81" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,296.68	332.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	199.57	
26 24 16 00-0383 EA 600 Amp Rating, 36" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,881.76	545.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	327.15	
26 24 16 00-0384 EA 600 Amp Rating, 72" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,246.47	546.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	328.02	
26 24 16 00-0385 EA 600 Amp Rating, 72" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,547.42	545.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	327.15	
26 24 16 00-0386 EA 800 Amp Rating, 36" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	8,691.66	728.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	437.36	
26 24 16 00-0387 EA 800 Amp Rating, 72" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,124.28	726.34
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	435.82	
26 24 16 00-0388 EA 800 Amp Rating, 72" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,555.00	726.34
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	435.82	
26 24 16 00-0389 Branch Circuit Breakers <small>(26 24 16 00-0001)</small>		
Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.		
26 24 16 00-0390 Branch Circuit Breakers 10,000 Amp Interrupting Capacity, Plug-On <small>(26 24 16 00-0389)</small>		
Note: Includes connection of electrical wire.		
26 24 16 00-0391 EA 1 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	45.46	17.37
<i>For Bolt-On, Add</i>	12.44	
<i>For Installation In New Panelboard, Deduct</i>	-9.65	
Note: Also for use with new interiors in panelboards.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 24 16 00-0392 EA 1 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	45.46	17.37
<i>For Bolt-On, Add</i>	12.44	
<i>For Installation In New Panelboard, Deduct</i>	-9.65	
Note: Also for use with new interiors in panelboards.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 24 16 00-0393 EA 1 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	64.08	21.71
<i>For Bolt-On, Add</i>	16.45	
<i>For Installation In New Panelboard, Deduct</i>	-12.06	
Note: Also for use with new interiors in panelboards.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.48	
26 24 16 00-0394 EA 1 Pole GFI, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	89.36	21.23
<i>For Bolt-On, Add</i>	19.28	
<i>For Installation In New Panelboard, Deduct</i>	-11.58	
Note: Also for use with new interiors in panelboards.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.90	
26 24 16 00-0395 EA 1 Pole GFI, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amp Interrupting Capacity.....	120.47	21.23
<i>For Bolt-On, Add</i>	23.16	
<i>For Installation In New Panelboard, Deduct</i>	-11.58	
Note: Also for use with new interiors in panelboards.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.90	
26 24 16 00-0396 EA 1 Pole GFI, 120/240 Volt, 15-30 Amp, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amp Interrupting Capacity.....	138.21	21.23
<i>For Bolt-On, Add</i>	25.38	
<i>For Installation In New Panelboard, Deduct</i>	-11.58	
Note: Also for use with new interiors in panelboards.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.90	
26 24 16 00-0397 EA 1 Pole GFI, 120/240 Volt, 15-20 Amp, "Arc Fault" Circuit Breaker, 10,000 Amp Interrupting Capacity.....	72.21	21.23
<i>For Bolt-On, Add</i>	17.13	
<i>For Installation In New Panelboard, Deduct</i>	-11.58	
Note: Also for use with new interiors in panelboards.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.90	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards And Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0398	EA		2 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	73.73	26.06
			<i>For Bolt-On, Add</i>	19.35	
			<i>For Installation In New Panelboard, Deduct</i>	-14.48	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.37	
26 24 16 00-0399	EA		2 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	73.73	26.06
			<i>For Bolt-On, Add</i>	19.35	
			<i>For Installation In New Panelboard, Deduct</i>	-14.48	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.37	
26 24 16 00-0400	EA		2 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	108.85	34.74
			<i>For Bolt-On, Add</i>	27.12	
			<i>For Installation In New Panelboard, Deduct</i>	-19.30	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 24 16 00-0401	EA		2 Pole, 120/240 Volt, 110-125 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	173.02	43.42
			<i>For Bolt-On, Add</i>	38.52	
			<i>For Installation In New Panelboard, Deduct</i>	-24.13	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.95	
26 24 16 00-0402	EA		2 Pole, 120/240 Volt, 150 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	202.17	48.25
			<i>For Bolt-On, Add</i>	43.85	
			<i>For Installation In New Panelboard, Deduct</i>	-26.54	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.85	
26 24 16 00-0403	EA		2 Pole GFI, 120/240 Volt, 15-50 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	166.67	30.88
			<i>For Bolt-On, Add</i>	32.99	
			<i>For Installation In New Panelboard, Deduct</i>	-17.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.84	
26 24 16 00-0404	EA		2 Pole, GFI, 120/240 Volt, 15-50 Amp, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amp Interrupting Capacity	217.56	30.88
			<i>For Bolt-On, Add</i>	39.35	
			<i>For Installation In New Panelboard, Deduct</i>	-17.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.84	
26 24 16 00-0405	EA		3 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	132.60	34.74
			<i>For Bolt-On, Add</i>	30.09	
			<i>For Installation In New Panelboard, Deduct</i>	-19.30	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 24 16 00-0406	EA		3 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	132.60	34.74
			<i>For Bolt-On, Add</i>	30.09	
			<i>For Installation In New Panelboard, Deduct</i>	-19.30	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 24 16 00-0407	EA		3 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	172.72	43.42
			<i>For Bolt-On, Add</i>	38.48	
			<i>For Installation In New Panelboard, Deduct</i>	-24.13	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.95	
26 24 16 00-0408	EA		3 Pole, 120/240 Volt, 110-125 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	254.24	52.11
			<i>For Bolt-On, Add</i>	52.05	
			<i>For Installation In New Panelboard, Deduct</i>	-28.95	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.74	
26 24 16 00-0409	EA		3 Pole, 120/240 Volt, 150 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	321.43	60.80
			<i>For Bolt-On, Add</i>	63.82	
			<i>For Installation In New Panelboard, Deduct</i>	-33.78	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.53	
26 24 16 00-0410			Branch Circuit Breakers 14,000 Amp Interrupting Capacity, Plug-On <small>(26 24 16 00-0389)</small>		
			<i>Note: Includes connection of electrical wire.</i>		
26 24 16 00-0411	EA		1 Pole, 277/480 Volt, 15-30 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	61.58	17.37
			<i>For Bolt-On, Add</i>	14.45	
			<i>For Installation In New Panelboard, Deduct</i>	-9.65	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 24 16 00-0412	EA		1 Pole, 277/480 Volt, 35-60 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	61.58	17.37
			<i>For Bolt-On, Add</i>	14.45	
			<i>For Installation In New Panelboard, Deduct</i>	-9.65	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 24 16 00-0413	EA		1 Pole, 277/480 Volt, 70-100 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	105.29	21.71
			<i>For Bolt-On, Add</i>	21.61	
			<i>For Installation In New Panelboard, Deduct</i>	-12.06	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.48	
26 24 16 00-0414	EA		1 Pole GFI, 277/480 Volt, 15-60 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	155.67	21.23
			<i>For Bolt-On, Add</i>	27.56	
			<i>For Installation In New Panelboard, Deduct</i>	-11.58	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.90	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0415	EA			2 Pole, 277/480 Volt, 15-30 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	116.17	26.06
				<i>For Bolt-On, Add</i>	24.65	
				<i>For Installation In New Panelboard, Deduct</i>	-14.48	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.37	
26 24 16 00-0416	EA			2 Pole, 277/480 Volt, 35-60 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	116.17	26.06
				<i>For Bolt-On, Add</i>	24.65	
				<i>For Installation In New Panelboard, Deduct</i>	-14.48	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.37	
26 24 16 00-0417	EA			2 Pole, 277/480 Volt, 70-100 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	220.36	34.74
				<i>For Bolt-On, Add</i>	41.06	
				<i>For Installation In New Panelboard, Deduct</i>	-19.30	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 24 16 00-0418	EA			2 Pole, 277/480 Volt, 110-125 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	298.25	43.42
				<i>For Bolt-On, Add</i>	54.17	
				<i>For Installation In New Panelboard, Deduct</i>	-24.13	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.95	
26 24 16 00-0419	EA			2 Pole, 277/480 Volt, 150 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	430.10	48.25
				<i>For Bolt-On, Add</i>	72.34	
				<i>For Installation In New Panelboard, Deduct</i>	-26.54	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.85	
26 24 16 00-0420	EA			3 Pole, 277/480 Volt, 15-30 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	181.84	34.74
				<i>For Bolt-On, Add</i>	36.24	
				<i>For Installation In New Panelboard, Deduct</i>	-19.30	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 24 16 00-0421	EA			3 Pole, 277/480 Volt, 35-60 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	181.84	34.74
				<i>For Bolt-On, Add</i>	36.24	
				<i>For Installation In New Panelboard, Deduct</i>	-19.30	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 24 16 00-0422	EA			3 Pole, 277/480 Volt, 70-100 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	267.62	43.42
				<i>For Bolt-On, Add</i>	50.34	
				<i>For Installation In New Panelboard, Deduct</i>	-24.13	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.95	
26 24 16 00-0423	EA			3 Pole, 277/480 Volt, 110-125 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	375.81	52.11
				<i>For Bolt-On, Add</i>	67.24	
				<i>For Installation In New Panelboard, Deduct</i>	-28.95	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.74	
26 24 16 00-0424	EA			3 Pole, 277/480 Volt, 150 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	571.82	60.80
				<i>For Bolt-On, Add</i>	95.12	
				<i>For Installation In New Panelboard, Deduct</i>	-33.78	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.53	
26 24 16 00-0425	EA			3 Pole, 277/480 Volt, 175 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	657.34	65.14
				<i>For Bolt-On, Add</i>	107.50	
				<i>For Installation In New Panelboard, Deduct</i>	-36.19	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.43	
26 24 16 00-0426	EA			3 Pole, 277/480 Volt, 200 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	705.95	69.48
				<i>For Bolt-On, Add</i>	115.27	
				<i>For Installation In New Panelboard, Deduct</i>	-38.60	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.32	
26 24 16 00-0427	EA			3 Pole, 277/480 Volt, 225 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	831.10	73.82
				<i>For Bolt-On, Add</i>	132.60	
				<i>For Installation In New Panelboard, Deduct</i>	-41.02	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.22	
26 24 16 00-0428				Branch Circuit Breakers 18,000 Amp Interrupting Capacity, Plug-On <small>(26 24 16 00-0389)</small>		
				<i>Note: Includes connection of electrical wire.</i>		
26 24 16 00-0429	EA			1 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity.....	72.17	17.37
				<i>For Bolt-On, Add</i>	15.78	
				<i>For Installation In New Panelboard, Deduct</i>	-9.65	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 24 16 00-0430	EA			1 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity.....	72.17	17.37
				<i>For Bolt-On, Add</i>	15.78	
				<i>For Installation In New Panelboard, Deduct</i>	-9.65	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 24 16 00-0431	EA			1 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity.....	115.75	21.71
				<i>For Bolt-On, Add</i>	22.91	
				<i>For Installation In New Panelboard, Deduct</i>	-12.06	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.48	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards And Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0432	EA		2 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	143.78	26.06
			<i>For Bolt-On, Add</i>	28.11	
			<i>For Installation In New Panelboard, Deduct</i>	-14.48	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.37	
26 24 16 00-0433	EA		2 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	143.78	26.06
			<i>For Bolt-On, Add</i>	28.11	
			<i>For Installation In New Panelboard, Deduct</i>	-14.48	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.37	
26 24 16 00-0434	EA		2 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	246.84	34.74
			<i>For Bolt-On, Add</i>	44.37	
			<i>For Installation In New Panelboard, Deduct</i>	-19.30	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 24 16 00-0435	EA		2 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	610.38	43.42
			<i>For Bolt-On, Add</i>	93.19	
			<i>For Installation In New Panelboard, Deduct</i>	-24.13	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.95	
26 24 16 00-0436	EA		3 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	227.40	34.74
			<i>For Bolt-On, Add</i>	41.94	
			<i>For Installation In New Panelboard, Deduct</i>	-19.30	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 24 16 00-0437	EA		3 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	227.40	34.74
			<i>For Bolt-On, Add</i>	41.94	
			<i>For Installation In New Panelboard, Deduct</i>	-19.30	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 24 16 00-0438	EA		3 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	300.79	43.42
			<i>For Bolt-On, Add</i>	54.49	
			<i>For Installation In New Panelboard, Deduct</i>	-24.13	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.95	
26 24 16 00-0439	EA		3 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	754.78	52.11
			<i>For Bolt-On, Add</i>	114.61	
			<i>For Installation In New Panelboard, Deduct</i>	-28.95	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.74	
26 24 16 00-0440			Branch Circuit Breakers 22,000 Amp Interrupting Capacity, Plug-On <small>(26 24 16 00-0389)</small>		
			<i>Note: Includes connection of electrical wire.</i>		
26 24 16 00-0441	EA		1 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	81.17	17.37
			<i>For Bolt-On, Add</i>	16.90	
			<i>For Installation In New Panelboard, Deduct</i>	-9.65	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 24 16 00-0442	EA		1 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	81.17	17.37
			<i>For Bolt-On, Add</i>	16.90	
			<i>For Installation In New Panelboard, Deduct</i>	-9.65	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 24 16 00-0443	EA		1 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	96.29	21.71
			<i>For Bolt-On, Add</i>	20.48	
			<i>For Installation In New Panelboard, Deduct</i>	-12.06	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.48	
26 24 16 00-0444	EA		1 Pole GFI, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	154.47	21.23
			<i>For Bolt-On, Add</i>	27.41	
			<i>For Installation In New Panelboard, Deduct</i>	-11.58	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.90	
26 24 16 00-0445	EA		2 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	167.25	26.06
			<i>For Bolt-On, Add</i>	31.04	
			<i>For Installation In New Panelboard, Deduct</i>	-14.48	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.37	
26 24 16 00-0446	EA		2 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	167.25	26.06
			<i>For Bolt-On, Add</i>	31.04	
			<i>For Installation In New Panelboard, Deduct</i>	-14.48	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.37	
26 24 16 00-0447	EA		2 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	204.32	34.74
			<i>For Bolt-On, Add</i>	39.05	
			<i>For Installation In New Panelboard, Deduct</i>	-19.30	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 24 16 00-0448	EA		2 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	291.39	43.42
			<i>For Bolt-On, Add</i>	53.31	
			<i>For Installation In New Panelboard, Deduct</i>	-24.13	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0449 EA 2 Pole, 240 Volt, 150-225 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	372.89	48.25
For Bolt-On, Add	65.19	
For Installation In New Panelboard, Deduct	-26.54	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.85	
26 24 16 00-0450 EA 2 Pole, 240 Volt, 250 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	464.05	56.45
For Bolt-On, Add	79.96	
For Installation In New Panelboard, Deduct	-31.36	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.64	
26 24 16 00-0451 EA 2 Pole, 240 Volt, 300-400 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	502.68	65.14
For Bolt-On, Add	88.17	
For Installation In New Panelboard, Deduct	-36.19	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.43	
26 24 16 00-0452 EA 3 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	204.71	34.74
For Bolt-On, Add	39.10	
For Installation In New Panelboard, Deduct	-19.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0453 EA 3 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	204.71	34.74
For Bolt-On, Add	39.10	
For Installation In New Panelboard, Deduct	-19.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0454 EA 3 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	241.40	43.42
For Bolt-On, Add	47.06	
For Installation In New Panelboard, Deduct	-24.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.95	
26 24 16 00-0455 EA 3 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	360.28	52.11
For Bolt-On, Add	65.30	
For Installation In New Panelboard, Deduct	-28.95	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.74	
26 24 16 00-0456 EA 3 Pole, 240 Volt, 150-225 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	472.36	67.55
For Bolt-On, Add	85.22	
For Installation In New Panelboard, Deduct	-37.40	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.87	
26 24 16 00-0457 EA 3 Pole, 240 Volt, 250 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	581.23	78.17
For Bolt-On, Add	103.05	
For Installation In New Panelboard, Deduct	-43.43	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.11	
26 24 16 00-0458 EA 3 Pole, 240 Volt, 300-400 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	617.83	82.99
For Bolt-On, Add	109.32	
For Installation In New Panelboard, Deduct	-45.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.01	
26 24 16 00-0459 Branch Circuit Breakers 25,000 Amp Interrupting Capacity, Plug-On <small>(26 24 16 00-0389)</small>		
Note: Includes connection of electrical wire.		
26 24 16 00-0460 EA 2 Pole, 240/480 Volt, 15-30 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	173.11	26.06
For Bolt-On, Add	31.77	
For Installation In New Panelboard, Deduct	-14.48	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.37	
26 24 16 00-0461 EA 2 Pole, 240/480 Volt, 35-60 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	173.11	26.06
For Bolt-On, Add	31.77	
For Installation In New Panelboard, Deduct	-14.48	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.37	
26 24 16 00-0462 EA 2 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	261.00	34.74
For Bolt-On, Add	46.14	
For Installation In New Panelboard, Deduct	-19.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0463 EA 2 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	418.06	43.42
For Bolt-On, Add	69.15	
For Installation In New Panelboard, Deduct	-24.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.95	
26 24 16 00-0464 EA 2 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	645.14	54.04
For Bolt-On, Add	101.75	
For Installation In New Panelboard, Deduct	-30.16	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.19	
26 24 16 00-0465 EA 2 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	728.97	56.45
For Bolt-On, Add	113.08	
For Installation In New Panelboard, Deduct	-31.36	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.64	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0466 EA 2 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	798.10	65.14
For Bolt-On, Add	125.09	
For Installation In New Panelboard, Deduct	-36.19	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.43	
26 24 16 00-0467 EA 3 Pole, 240/480 Volt, 15-30 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	247.55	34.74
For Bolt-On, Add	44.45	
For Installation In New Panelboard, Deduct	-19.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0468 EA 3 Pole, 240/480 Volt, 35-60 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	247.55	34.74
For Bolt-On, Add	44.45	
For Installation In New Panelboard, Deduct	-19.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0469 EA 3 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	311.69	43.42
For Bolt-On, Add	55.85	
For Installation In New Panelboard, Deduct	-24.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.95	
26 24 16 00-0470 EA 3 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	519.19	52.11
For Bolt-On, Add	85.16	
For Installation In New Panelboard, Deduct	-28.95	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.74	
26 24 16 00-0471 EA 3 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	754.78	67.55
For Bolt-On, Add	120.52	
For Installation In New Panelboard, Deduct	-37.40	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.87	
26 24 16 00-0472 EA 3 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	890.95	78.17
For Bolt-On, Add	141.77	
For Installation In New Panelboard, Deduct	-43.43	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.11	
26 24 16 00-0473 EA 3 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	963.00	82.99
For Bolt-On, Add	152.46	
For Installation In New Panelboard, Deduct	-45.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.01	
26 24 16 00-0474 Branch Circuit Breakers 30,000 Amp Interrupting Capacity, Plug-On <small>(26 24 16 00-0389)</small>		
Note: Includes connection of electrical wire.		
26 24 16 00-0475 EA 2 Pole, 240/480 Volt, 15-30 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	178.94	26.06
For Bolt-On, Add	32.50	
For Installation In New Panelboard, Deduct	-14.48	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.37	
26 24 16 00-0476 EA 2 Pole, 240/480 Volt, 35-60 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	178.94	26.06
For Bolt-On, Add	32.50	
For Installation In New Panelboard, Deduct	-14.48	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.37	
26 24 16 00-0477 EA 2 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	314.80	34.74
For Bolt-On, Add	52.86	
For Installation In New Panelboard, Deduct	-19.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0478 EA 2 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	567.23	43.42
For Bolt-On, Add	87.79	
For Installation In New Panelboard, Deduct	-24.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.95	
26 24 16 00-0479 EA 2 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	891.71	54.04
For Bolt-On, Add	132.57	
For Installation In New Panelboard, Deduct	-30.16	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.19	
26 24 16 00-0480 EA 2 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	1,012.55	56.45
For Bolt-On, Add	148.52	
For Installation In New Panelboard, Deduct	-31.36	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.64	
26 24 16 00-0481 EA 2 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	1,104.11	65.14
For Bolt-On, Add	163.35	
For Installation In New Panelboard, Deduct	-36.19	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.43	
26 24 16 00-0482 EA 3 Pole, 240/480 Volt, 15-30 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	287.90	34.74
For Bolt-On, Add	49.50	
For Installation In New Panelboard, Deduct	-19.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0483 EA 3 Pole, 240/480 Volt, 35-60 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	287.90	34.74
For Bolt-On, Add	49.50	
For Installation In New Panelboard, Deduct	-19.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0484 EA 3 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	381.63	43.42
For Bolt-On, Add	64.59	
For Installation In New Panelboard, Deduct	-24.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.95	
26 24 16 00-0485 EA 3 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	689.62	52.11
For Bolt-On, Add	106.47	
For Installation In New Panelboard, Deduct	-28.95	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.74	
26 24 16 00-0486 EA 3 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	871.95	67.55
For Bolt-On, Add	135.17	
For Installation In New Panelboard, Deduct	-37.40	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.87	
26 24 16 00-0487 EA 3 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	1,377.84	78.17
For Bolt-On, Add	202.63	
For Installation In New Panelboard, Deduct	-43.43	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.11	
26 24 16 00-0488 EA 3 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	1,467.11	82.99
For Bolt-On, Add	215.48	
For Installation In New Panelboard, Deduct	-45.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.01	
26 24 16 00-0489 Branch Circuit Breakers 35,000 Amp Interrupting Capacity, Plug-On <small>(26 24 16 00-0389)</small>		
Note: Includes connection of electrical wire.		
26 24 16 00-0490 EA 1 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	95.85	17.37
For Bolt-On, Add	18.74	
For Installation In New Panelboard, Deduct	-9.65	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.58	
26 24 16 00-0491 EA 1 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	95.85	17.37
For Bolt-On, Add	18.74	
For Installation In New Panelboard, Deduct	-9.65	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.58	
26 24 16 00-0492 EA 1 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	162.05	21.71
For Bolt-On, Add	28.70	
For Installation In New Panelboard, Deduct	-12.06	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.48	
26 24 16 00-0493 EA 2 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	202.80	26.06
For Bolt-On, Add	35.48	
For Installation In New Panelboard, Deduct	-14.48	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.37	
26 24 16 00-0494 EA 2 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	202.80	26.06
For Bolt-On, Add	35.48	
For Installation In New Panelboard, Deduct	-14.48	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.37	
26 24 16 00-0495 EA 2 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	364.18	34.74
For Bolt-On, Add	59.03	
For Installation In New Panelboard, Deduct	-19.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0496 EA 2 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	665.85	43.42
For Bolt-On, Add	100.12	
For Installation In New Panelboard, Deduct	-24.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.95	
26 24 16 00-0497 EA 2 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	1,281.26	54.04
For Bolt-On, Add	181.27	
For Installation In New Panelboard, Deduct	-30.16	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.19	
26 24 16 00-0498 EA 3 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	330.96	34.74
For Bolt-On, Add	54.88	
For Installation In New Panelboard, Deduct	-19.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0499 EA 3 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	330.96	34.74
For Bolt-On, Add	54.88	
For Installation In New Panelboard, Deduct	-19.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0500 EA 3 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	441.45	43.42
For Bolt-On, Add	72.07	
For Installation In New Panelboard, Deduct	-24.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.95	
26 24 16 00-0501 EA 3 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	819.63	52.11
For Bolt-On, Add	122.72	
For Installation In New Panelboard, Deduct	-28.95	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.74	
26 24 16 00-0502 EA 3 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	1,592.95	67.55
For Bolt-On, Add	225.30	
For Installation In New Panelboard, Deduct	-37.40	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.87	
26 24 16 00-0503 Branch Circuit Breakers 42,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)		
Note: Includes connection of electrical wire.		
26 24 16 00-0504 EA 1 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	137.23	17.37
For Bolt-On, Add	23.91	
For Installation In New Panelboard, Deduct	-9.65	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.58	
26 24 16 00-0505 EA 1 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	137.23	17.37
For Bolt-On, Add	23.91	
For Installation In New Panelboard, Deduct	-9.65	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.58	
26 24 16 00-0506 EA 1 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	206.05	21.71
For Bolt-On, Add	34.20	
For Installation In New Panelboard, Deduct	-12.06	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.48	
26 24 16 00-0507 EA 2 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	250.67	26.06
For Bolt-On, Add	41.47	
For Installation In New Panelboard, Deduct	-14.48	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.37	
26 24 16 00-0508 EA 2 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	250.67	26.06
For Bolt-On, Add	41.47	
For Installation In New Panelboard, Deduct	-14.48	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.37	
26 24 16 00-0509 EA 2 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	467.22	34.74
For Bolt-On, Add	71.91	
For Installation In New Panelboard, Deduct	-19.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0510 EA 2 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	840.69	43.42
For Bolt-On, Add	121.98	
For Installation In New Panelboard, Deduct	-24.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.95	
26 24 16 00-0511 EA 2 Pole, 240 Volt, 150-225 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	1,661.75	48.25
For Bolt-On, Add	226.30	
For Installation In New Panelboard, Deduct	-26.54	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.85	
26 24 16 00-0512 EA 3 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	426.87	34.74
For Bolt-On, Add	66.87	
For Installation In New Panelboard, Deduct	-19.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0513 EA 3 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	426.87	34.74
For Bolt-On, Add	66.87	
For Installation In New Panelboard, Deduct	-19.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0514 EA 3 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	589.64	43.42
For Bolt-On, Add	90.59	
For Installation In New Panelboard, Deduct	-24.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.95	
26 24 16 00-0515 EA 3 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	949.64	52.11
For Bolt-On, Add	138.97	
For Installation In New Panelboard, Deduct	-28.95	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.74	
26 24 16 00-0516 EA 3 Pole, 240 Volt, 150-225 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	2,099.68	67.55
For Bolt-On, Add	288.64	
For Installation In New Panelboard, Deduct	-37.40	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0517 Branch Circuit Breakers 65,000 Amp Interrupting Capacity, Plug-On <small>(26 24 16 00-0389)</small> <i>Note: Includes connection of electrical wire.</i>		
26 24 16 00-0518 EA 1 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	65.81	17.37
For Bolt-On, Add	14.98	
For Installation In New Panelboard, Deduct	-9.65	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.58	
26 24 16 00-0519 EA 2 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	134.59	26.06
For Bolt-On, Add	26.96	
For Installation In New Panelboard, Deduct	-14.48	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.37	
26 24 16 00-0520 EA 3 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	210.79	34.74
For Bolt-On, Add	39.86	
For Installation In New Panelboard, Deduct	-19.30	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0521 EA 1 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	130.14	17.37
For Bolt-On, Add	23.02	
For Installation In New Panelboard, Deduct	-9.65	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.58	
26 24 16 00-0522 EA 1 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	130.14	17.37
For Bolt-On, Add	23.02	
For Installation In New Panelboard, Deduct	-9.65	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.58	
26 24 16 00-0523 EA 1 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	259.21	34.74
For Bolt-On, Add	45.91	
For Installation In New Panelboard, Deduct	-19.30	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0524 EA 2 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	290.10	26.06
For Bolt-On, Add	46.40	
For Installation In New Panelboard, Deduct	-14.48	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.37	
26 24 16 00-0525 EA 2 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	290.10	26.06
For Bolt-On, Add	46.40	
For Installation In New Panelboard, Deduct	-14.48	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.37	
26 24 16 00-0526 EA 2 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	556.08	34.74
For Bolt-On, Add	83.02	
For Installation In New Panelboard, Deduct	-19.30	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0527 EA 2 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	939.31	43.42
For Bolt-On, Add	134.30	
For Installation In New Panelboard, Deduct	-24.13	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.95	
26 24 16 00-0528 EA 2 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	2,055.60	54.04
For Bolt-On, Add	278.06	
For Installation In New Panelboard, Deduct	-30.16	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.19	
26 24 16 00-0529 EA 3 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	483.28	34.74
For Bolt-On, Add	73.92	
For Installation In New Panelboard, Deduct	-19.30	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0530 EA 3 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	483.28	34.74
For Bolt-On, Add	73.92	
For Installation In New Panelboard, Deduct	-19.30	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 24 16 00-0531 EA 3 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	671.52	43.42
For Bolt-On, Add	100.83	
For Installation In New Panelboard, Deduct	-24.13	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.95	
26 24 16 00-0532 EA 3 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	1,021.37	52.11
For Bolt-On, Add	147.94	
For Installation In New Panelboard, Deduct	-28.95	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.74	
26 24 16 00-0533 EA 3 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity	2,556.02	67.55
For Bolt-On, Add	345.68	
For Installation In New Panelboard, Deduct	-37.40	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.87	
26 24 16 00-0534 Residential Lighting And Power Panelboards <small>(26 24 16 00-0001)</small>		

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards And Panelboards



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 24 16 00-0535		Residential Type Unassembled Load Center <small>(26 24 16 00-0534)</small> <small>Note: Interior box and cover, includes ground bar kit.</small>		
26 24 16 00-0536		Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase <small>(26 24 16 00-0535)</small>		
26 24 16 00-0537	EA	30 Amp, 2 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled.....	134.82	48.25
26 24 16 00-0538	EA	70 Amp, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled.....	442.93	193.00
26 24 16 00-0539	EA	100 Amp, 8 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled.....	674.23	275.51
26 24 16 00-0540	EA	125 Amp, 24 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled.....	1,444.07	579.10
26 24 16 00-0541	EA	150 Amp, 30 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled.....	1,581.03	627.27
26 24 16 00-0542		Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 V AC <small>(26 24 16 00-0535)</small> <small>Note: 3 Phase 4 wire 240/120 V AC Delta, 3 phase 3 wire 240 V AC Delta.</small>		
26 24 16 00-0543	EA	60 Amp, 3 Circuit, Main Lug Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled.....	191.92	53.07
26 24 16 00-0544	EA	125 Amp, 3 Circuit, Main Lug Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled.....	354.50	57.90
26 24 16 00-0545		Main Lug Load Center, 3 Wire 120/240 Volt, Single Phase, Rainproof <small>(26 24 16 00-0535)</small>		
26 24 16 00-0546	EA	40 Amp, 2 Circuit, Main Lug Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled.....	195.43	53.07
26 24 16 00-0547	EA	70 Amp, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled.....	218.36	57.90
26 24 16 00-0548	EA	100 Amp, 8 Circuit, Main Lug Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled.....	744.43	275.51
26 24 16 00-0549	EA	150 Amp, 30 Circuit, Main Lug Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled.....	1,687.87	627.27
26 24 16 00-0550		Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 V AC <small>(26 24 16 00-0535)</small> <small>Note: 3 Phase 4 wire 240/120 V AC Delta, 3 phase 3 wire 240 V AC Delta, Rainproof.</small>		
26 24 16 00-0551	EA	60 A, 3 Circuit, Main Lug Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled.....	245.34	53.07
26 24 16 00-0552	EA	125 A, 20 Circuit, Main Lug Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled.....	1,639.58	579.10
26 24 16 00-0553		Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase <small>(26 24 16 00-0535)</small>		
26 24 16 00-0554	EA	125 Amp, 24 Circuit, Main Breaker Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled.....	1,776.79	579.10
26 24 16 00-0555	EA	150 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled.....	1,929.01	627.27
26 24 16 00-0556	EA	300 Amp, 42 Circuit, Main Breaker Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled.....	7,141.50	965.01
26 24 16 00-0557		Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 V AC <small>(26 24 16 00-0535)</small> <small>Note: 3 Phase 4 wire 240/120 V AC Delta, 3 phase 3 wire 240 V AC Delta.</small>		
26 24 16 00-0558	EA	125 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled.....	2,663.23	579.10
26 24 16 00-0559	EA	150 Amp, 40 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled.....	2,906.26	627.27
26 24 16 00-0560	EA	300 Amp, 42 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled.....	7,887.37	965.01
26 24 16 00-0561		Main Breaker Load Center, 3 Wire 120/240 Volt, Single Phase, Rainproof <small>(26 24 16 00-0535)</small>		
26 24 16 00-0562	EA	125 Amp, 24 Circuit, Main Breaker Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled.....	1,876.00	579.10
26 24 16 00-0563	EA	150 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled.....	2,098.42	627.27
26 24 16 00-0564		Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 V AC <small>(26 24 16 00-0535)</small> <small>Note: 3 Phase 4 wire 240/120 V AC Delta, 3 phase 3 wire 240 V AC Delta, Rainproof.</small>		
26 24 16 00-0565	EA	125 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled.....	2,827.76	579.10
26 24 16 00-0566	EA	155 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled.....	2,924.12	627.27
26 24 16 00-0567		Residential Type Assembled Load Center <small>(26 24 16 00-0534)</small>		
26 24 16 00-0568		Main Lug Load Center, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase <small>(26 24 16 00-0567)</small> <small>Note: Includes 1 pole plug-in breaker.</small>		
26 24 16 00-0569	EA	100 Amp Main Lugs, Indoor 8 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	674.68	275.51
26 24 16 00-0570	EA	100 Amp Main Lugs, Indoor 12 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	825.31	321.83
26 24 16 00-0571	EA	100 Amp Main Lugs, Rainproof, 8 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	691.47	275.51
26 24 16 00-0572	EA	100 Amp Main Lugs, Rainproof, 12 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	829.89	321.83
26 24 16 00-0573	EA	200 Amp Main Lugs, Indoor, 8 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,215.09	428.95
26 24 16 00-0574	EA	200 Amp Main Lugs, Indoor, 20 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,431.08	514.84
26 24 16 00-0575	EA	200 Amp Main Lugs, Indoor, 24 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,635.05	593.97
26 24 16 00-0576	EA	200 Amp Main Lugs, Indoor, 30 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,804.92	642.99
26 24 16 00-0577	EA	200 Amp Main Lugs, Indoor, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	2,700.78	965.01
26 24 16 00-0578	EA	200 Amp Main Lugs, Rainproof, 16 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,274.61	428.95
26 24 16 00-0579	EA	200 Amp Main Lugs, Rainproof, 20 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,487.55	514.84
26 24 16 00-0580	EA	200 Amp Main Lugs, Rainproof, 24 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,691.52	593.97



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0581 EA 200 Amp Main Lugs, Rainproof, 30 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,858.34	642.99
26 24 16 00-0582 EA 200 Amp Main Lugs, Rainproof, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	2,876.29	965.01
26 24 16 00-0583 EA 400 Amp Main Lugs, Indoor, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	3,357.83	1,072.23
26 24 16 00-0584 EA 400 Amp Main Lugs, Rainproof, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	3,540.98	1,072.23
26 24 16 00-0585 Main Lug Load Center, 4 Wire, 20 Amp, 120/208 V <small>(26 24 16 00-0587)</small>		
<small>Note: Includes 1 pole plug-in breaker.</small>		
26 24 16 00-0586 EA 125 Amp Main Lugs, Indoor, 12 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	910.78	321.83
26 24 16 00-0587 EA 125 Amp Main Lugs, Indoor, 18 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,357.25	482.51
26 24 16 00-0588 EA 125 Amp Main Lugs, Rainproof, 12 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	961.15	321.83
26 24 16 00-0589 EA 125 Amp Main Lugs, Rainproof, 18 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,403.04	482.51
26 24 16 00-0590 EA 200 Amp Main Lugs, Indoor, 24 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,722.04	593.97
26 24 16 00-0591 EA 200 Amp Main Lugs, Indoor, 30 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,881.92	643.38
26 24 16 00-0592 EA 200 Amp Main Lugs, Indoor, 36 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,307.64	772.30
26 24 16 00-0593 EA 200 Amp Main Lugs, Indoor, 42 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,761.83	965.01
26 24 16 00-0594 EA 200 Amp Main Lugs, Rainproof, 24 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,775.46	593.97
26 24 16 00-0595 EA 200 Amp Main Lugs, Rainproof, 30 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,942.28	642.99
26 24 16 00-0596 EA 200 Amp Main Lugs, Rainproof, 36 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,512.70	771.72
26 24 16 00-0597 EA 200 Amp Main Lugs, Rainproof, 42 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,967.87	965.01
26 24 16 00-0598 EA 400 Amp Main Lugs, Indoor, 42 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	3,403.62	1,072.23
26 24 16 00-0599 EA 400 Amp Main Lugs, Rainproof, 42 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	3,586.77	1,072.23
26 24 16 00-0600 Main Breaker Load Center, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase <small>(26 24 16 00-0567)</small>		
<small>Note: Includes 1 pole plug-in breaker.</small>		
26 24 16 00-0601 EA 125 Amp Main Breaker, Indoor, 12 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	904.68	321.83
26 24 16 00-0602 EA 125 Amp Main Breaker, Indoor, 18 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,335.88	482.51
26 24 16 00-0603 EA 200 Amp Main Breaker, Indoor, 20 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,556.23	514.84
26 24 16 00-0604 EA 200 Amp Main Breaker, Indoor, 24 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,783.67	594.26
26 24 16 00-0605 EA 200 Amp Main Breaker, Indoor, 30 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,965.86	643.38
26 24 16 00-0606 EA 200 Amp Main Breaker, Indoor, 40 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	2,601.10	857.90
26 24 16 00-0607 EA 200 Amp Main Breaker, Rainproof, 20 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	1,571.49	514.84
26 24 16 00-0608 EA 200 Amp Main Breaker, Rainproof, 24 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	1,813.62	593.97
26 24 16 00-0609 EA 200 Amp Main Breaker, Rainproof, 30 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	1,972.80	642.99
26 24 16 00-0610 EA 200 Amp Main Breaker, Rainproof, 40 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	2,517.16	857.90
26 24 16 00-0611 EA 400 Amp Main Breaker, Indoor, 42 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	4,929.85	1,072.23
26 24 16 00-0612 EA 400 Amp Main Breaker, Rainproof, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	5,235.10	1,072.23
26 24 16 00-0613 Main Breaker Load Center, 4 Wire, 20 Amp, 120/208 V <small>(26 24 16 00-0567)</small>		
<small>Note: Includes 1 pole plug-in breaker.</small>		
26 24 16 00-0614 EA 200 Amp Main Breaker, Indoor, 30 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,393.21	643.38
26 24 16 00-0615 EA 200 Amp Main Breaker, Indoor, 42 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	3,250.22	965.01
26 24 16 00-0616 EA 200 Amp Main Breaker, Rainproof, 30 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,484.09	642.99
26 24 16 00-0617 EA 200 Amp Main Breaker, Rainproof, 42 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	3,341.79	965.01
26 24 16 00-0618 Panel Mounted Accessories And Fuseholders <small>(26 24 16 00-0001)</small>		
26 24 16 00-0619 Midget Finger-Safe Fuse Holders <small>(26 24 16 00-0618)</small>		
<small>Note: 30 Amp capacity. Excludes fuse.</small>		
26 24 16 00-0620 EA 1 Pole Midget Finger-Safe Fuse Holder	54.79	17.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.58	
26 24 16 00-0621 EA 1 Pole With Indicator Midget Finger-Safe Fuse Holder	62.46	17.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.58	
26 24 16 00-0622 EA 2 Pole Midget Finger-Safe Fuse Holder	87.06	26.06
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	17.37	
26 24 16 00-0623 EA 2 Pole With Indicators Midget Finger-Safe Fuse Holder	107.08	26.06
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	17.37	
26 24 16 00-0624 EA 3 Pole Midget Finger-Safe Fuse Holder	125.54	34.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	23.16	
26 24 16 00-0625 EA 3 Pole With Indicators Midget Finger-Safe Fuse Holder	152.13	34.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	23.16	
26 24 16 00-0626 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	174.37	34.74
<small>Note: With indicators.</small>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	23.16	
26 24 16 00-0627 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	144.89	34.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	23.16	
26 24 16 00-0628 EA 4 Pole Midget Finger-Safe Fuse Holder	157.90	43.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	28.95	
26 24 16 00-0629 EA 4 Pole With Indicator Midget Finger-Safe Fuse Holder	187.10	43.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	28.95	
26 24 16 00-0630 EA 12 To 24 Volt DC Midget Finger-Safe Fuse Holder	62.49	17.37
<small>Note: With indicator.</small>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.58	
26 24 16 00-0631 EA 20 To 24 Volt DC Midget Finger-Safe Fuse Holder	66.56	17.37
<small>Note: With indicator.</small>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.58	
26 24 16 00-0632 EA 35 To 48 Volt DC Midget Finger-Safe Fuse Holder	63.24	17.37
<small>Note: With indicator.</small>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.58	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0633			Removal And Reinstallation Of Panelboards (26 24 16 00-0001) Note: Includes storage, cleaning and supply materials.		
26 24 16 00-0634	EA		Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers 1,212.42 Note: Includes removal and reinstallation of main wiring to panelboard.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	361.88	
26 24 16 00-0635	EA		Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage..... 64.50 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.82	
26 24 16 00-0636	EA		Panelboard Filler Plate, Fits 1" Opening 4.79 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	0.91	
26 24 19			Motor-Control Centers (26 24)		
26 24 19 00-0001			Combination Starters With Molded Case Circuit Breakers (26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.		
26 24 19 00-0002			230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed non-reversing.		
26 24 19 00-0003	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit 2,294.12 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.22	
				52.94	
26 24 19 00-0004	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit 2,721.60 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.63	
				55.58	
26 24 19 00-0005	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit 4,066.15 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.04	
				58.23	
26 24 19 00-0006	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit 7,395.34 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.69	
				68.81	
26 24 19 00-0007	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit 14,933.29 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.33	
				79.40	
26 24 19 00-0008	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit 25,142.46 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	176.45	
				105.87	
26 24 19 00-0009			480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed non-reversing.		
26 24 19 00-0010	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit 2,294.12 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.22	
				52.94	
26 24 19 00-0011	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit 2,721.60 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.63	
				55.58	
26 24 19 00-0012	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit 4,066.15 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.04	
				58.23	
26 24 19 00-0013	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit 7,395.34 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.69	
				68.81	
26 24 19 00-0014	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit 14,933.29 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.33	
				79.40	
26 24 19 00-0015	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit 25,142.46 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	176.45	
				105.87	
26 24 19 00-0016			230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed reversing.		
26 24 19 00-0017	EA		230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit 3,339.66 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.22	
				52.94	
26 24 19 00-0018	EA		230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit 4,460.48 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.63	
				55.58	
26 24 19 00-0019	EA		230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit 6,407.54 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.04	
				58.23	
26 24 19 00-0020	EA		230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit 11,231.95 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.69	
				68.81	
26 24 19 00-0021	EA		230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit 22,143.55 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.33	
				79.40	
26 24 19 00-0022	EA		230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit 38,180.74 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	176.45	
				105.87	
26 24 19 00-0023			480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed reversing.		
26 24 19 00-0024	EA		480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit 3,339.66 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.22	
				52.94	
26 24 19 00-0025	EA		480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit 4,460.48 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.63	
				55.58	
26 24 19 00-0026	EA		480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit 6,407.54 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.04	
				58.23	
26 24 19 00-0027	EA		480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit 11,231.95 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.69	
				68.81	
26 24 19 00-0028	EA		480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit 22,143.55 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.33	
				79.40	
26 24 19 00-0029	EA		480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit 38,180.74 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	176.45	
				105.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0030 230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0031 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit.....	4,050.24	141.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>84.69</i>	
26 24 19 00-0032 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit.....	5,587.48	149.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>89.99</i>	
26 24 19 00-0033 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit.....	8,249.99	158.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>95.28</i>	
26 24 19 00-0034 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit.....	14,782.24	180.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>108.51</i>	
26 24 19 00-0035 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit.....	24,521.93	211.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>127.04</i>	
26 24 19 00-0036 480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0037 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit.....	4,050.24	141.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>84.69</i>	
26 24 19 00-0038 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit.....	5,587.48	149.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>89.99</i>	
26 24 19 00-0039 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit.....	8,249.99	158.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>95.28</i>	
26 24 19 00-0040 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit.....	14,782.24	180.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>108.51</i>	
26 24 19 00-0041 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit.....	24,521.93	211.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>127.04</i>	
26 24 19 00-0042 230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit.....	4,706.40	88.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>52.94</i>	
26 24 19 00-0044 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit.....	7,018.96	92.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>55.58</i>	
26 24 19 00-0045 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit.....	9,619.49	97.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>58.23</i>	
26 24 19 00-0046 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit.....	18,096.65	114.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>68.81</i>	
26 24 19 00-0047 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit.....	31,378.45	132.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>79.40</i>	
26 24 19 00-0048 480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit.....	4,706.40	88.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>52.94</i>	
26 24 19 00-0050 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit.....	7,018.96	92.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>55.58</i>	
26 24 19 00-0051 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit.....	9,619.49	97.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>58.23</i>	
26 24 19 00-0052 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit.....	18,096.65	114.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>68.81</i>	
26 24 19 00-0053 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit.....	31,378.45	132.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>79.40</i>	
26 24 19 00-0054 230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, auto-transformer.		
26 24 19 00-0055 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit.....	6,974.66	92.63
26 24 19 00-0056 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit.....	10,693.79	101.45
26 24 19 00-0057 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit.....	18,045.71	114.69
26 24 19 00-0058 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit.....	27,931.70	132.33
26 24 19 00-0059 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit.....	47,803.29	176.45
26 24 19 00-0060 480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, auto-transformer.		
26 24 19 00-0061 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit.....	6,974.66	92.63
26 24 19 00-0062 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit.....	10,693.79	101.45
26 24 19 00-0063 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit.....	18,045.71	114.69
26 24 19 00-0064 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit.....	27,931.70	132.33
26 24 19 00-0065 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit.....	47,803.29	176.45
26 24 19 00-0066 230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, part winding.		
26 24 19 00-0067 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit.....	4,734.72	141.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>84.69</i>	
26 24 19 00-0068 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit.....	6,123.42	163.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>97.92</i>	
26 24 19 00-0069 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit.....	10,806.07	180.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>108.51</i>	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0070	EA		230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit.....	18,450.15	220.56
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.33	
26 24 19 00-0071	EA		230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit.....	25,354.22	282.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.40	
26 24 19 00-0072			480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small>		
			Note: Reducing volt, part winding.		
26 24 19 00-0073	EA		480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit.....	4,734.72	141.15
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.69	
26 24 19 00-0074	EA		480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit.....	6,123.42	163.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.92	
26 24 19 00-0075	EA		480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit.....	10,806.07	180.86
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.51	
26 24 19 00-0076	EA		480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit.....	18,450.15	220.56
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.33	
26 24 19 00-0077	EA		480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit.....	25,354.22	282.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.40	
26 24 19 00-0078			230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small>		
			Note: Reducing volt, energy saver.		
26 24 19 00-0079	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit.....	19,735.85	114.69
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.81	
26 24 19 00-0080	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit.....	20,929.57	141.15
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.69	
26 24 19 00-0081	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit.....	23,109.07	163.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.92	
26 24 19 00-0082	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	35,013.06	180.86
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.51	
26 24 19 00-0083	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	47,760.81	220.56
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.33	
26 24 19 00-0084	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	64,821.27	282.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.40	
26 24 19 00-0085			480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small>		
			Note: Reducing volt, energy saver.		
26 24 19 00-0086	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit.....	19,735.85	114.69
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.81	
26 24 19 00-0087	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit.....	20,929.57	141.15
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.69	
26 24 19 00-0088	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	23,109.07	163.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.92	
26 24 19 00-0089	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	35,013.06	180.86
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.51	
26 24 19 00-0090	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	47,760.81	220.56
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.33	
26 24 19 00-0091	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit.....	64,821.27	282.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.40	
26 24 19 00-0092			Combination Starters With Current Limiting Circuit Breakers <small>(26 24 19)</small>		
			Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.		
26 24 19 00-0093			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
			Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0094	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	3,080.49	88.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.94	
26 24 19 00-0095	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	3,507.97	92.63
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.58	
26 24 19 00-0096	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	5,441.74	97.04
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.23	
26 24 19 00-0097	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	10,051.29	114.69
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.81	
26 24 19 00-0098	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	18,021.19	132.33
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.40	
26 24 19 00-0099	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	29,388.87	176.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.87	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0100				480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
				Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0101	EA			480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	3,080.49	88.22
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.94	
26 24 19 00-0102	EA			480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	3,507.97	92.63
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.58	
26 24 19 00-0103	EA			480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	5,441.74	97.04
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.23	
26 24 19 00-0104	EA			480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	10,051.29	114.69
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.81	
26 24 19 00-0105	EA			480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	18,021.19	132.33
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.40	
26 24 19 00-0106	EA			480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit.....	29,388.87	176.45
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.87	
26 24 19 00-0107				230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
				Note: Full volt, 1-speed reversing.		
26 24 19 00-0108	EA			230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	4,119.39	88.22
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.94	
26 24 19 00-0109	EA			230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	5,231.35	92.63
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.58	
26 24 19 00-0110	EA			230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	7,752.13	97.04
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.23	
26 24 19 00-0111	EA			230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	13,852.46	114.69
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.81	
26 24 19 00-0112	EA			230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	25,169.43	132.33
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.40	
26 24 19 00-0113				480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
				Note: Full volt, 1-speed reversing.		
26 24 19 00-0114	EA			480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	4,119.39	88.22
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.94	
26 24 19 00-0115	EA			480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	5,231.35	92.63
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.58	
26 24 19 00-0116	EA			480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	7,752.13	97.04
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.23	
26 24 19 00-0117	EA			480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	13,852.46	114.69
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.81	
26 24 19 00-0118	EA			480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	25,169.43	132.33
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.40	
26 24 19 00-0119				230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
				Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0120	EA			230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	4,816.68	141.15
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.69	
26 24 19 00-0121	EA			230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit.....	6,342.84	149.98
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.99	
26 24 19 00-0122	EA			230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit.....	9,572.42	158.80
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.28	
26 24 19 00-0123	EA			230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit.....	17,371.73	180.86
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.51	
26 24 19 00-0124	EA			230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit.....	27,523.44	211.74
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.04	
26 24 19 00-0125				480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
				Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0126	EA			480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit.....	4,816.68	141.15
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.69	
26 24 19 00-0127	EA			480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit.....	6,342.84	149.98
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.99	
26 24 19 00-0128	EA			480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit.....	9,572.42	158.80
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.28	
26 24 19 00-0129	EA			480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit.....	17,371.73	180.86
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.51	
26 24 19 00-0130	EA			480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit.....	27,523.44	211.74
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.04	
26 24 19 00-0131				230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
				Note: Full volt, 2-speed non-reversing, 1 wind.		

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards And Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0132	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,561.06 79.40	132.33
26 24 19 00-0133	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,858.06 84.69	141.15
26 24 19 00-0134	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,041.14 89.99	149.98
26 24 19 00-0135	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,769.82 103.22	172.03
26 24 19 00-0136	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,461.33 121.76	202.91
26 24 19 00-0137			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0138	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,561.06 79.40	132.33
26 24 19 00-0139	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,858.06 84.69	141.15
26 24 19 00-0140	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,041.14 89.99	149.98
26 24 19 00-0141	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,769.82 103.22	172.03
26 24 19 00-0142	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,461.33 121.76	202.91
26 24 19 00-0143			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, auto-transformer.		
26 24 19 00-0144	EA		230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,718.94 55.58	92.63
26 24 19 00-0145	EA		230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,448.17 60.87	101.45
26 24 19 00-0146	EA		230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,060.50 68.81	114.69
26 24 19 00-0147	EA		230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,921.16 79.40	132.33
26 24 19 00-0148	EA		230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52,537.03 105.87	176.45
26 24 19 00-0149			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, auto-transformer.		
26 24 19 00-0150	EA		480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,718.94 55.58	92.63
26 24 19 00-0151	EA		480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,448.17 60.87	101.45
26 24 19 00-0152	EA		480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,060.50 68.81	114.69
26 24 19 00-0153	EA		480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,921.16 79.40	132.33
26 24 19 00-0154	EA		480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52,537.03 105.87	176.45
26 24 19 00-0155			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, part winding.		
26 24 19 00-0156	EA		230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,501.16 84.69	141.15
26 24 19 00-0157	EA		230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,874.35 97.92	163.21
26 24 19 00-0158	EA		230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,119.64 108.51	180.86
26 24 19 00-0159	EA		230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,502.61 132.33	220.56
26 24 19 00-0160	EA		230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,738.24 169.40	282.31
26 24 19 00-0161			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, part winding.		
26 24 19 00-0162	EA		480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,501.16 84.69	141.15
26 24 19 00-0163	EA		480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,874.35 97.92	163.21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0164 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,119.64 108.51	180.86
26 24 19 00-0165 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,502.61 132.33	220.56
26 24 19 00-0166 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,738.24 169.40	282.31
26 24 19 00-0167 230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, energy saving		
26 24 19 00-0168 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,371.60 68.81	114.69
26 24 19 00-0169 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,558.67 84.69	141.15
26 24 19 00-0170 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,716.02 97.92	163.21
26 24 19 00-0171 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,515.89 108.51	180.86
26 24 19 00-0172 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48,150.68 132.33	220.56
26 24 19 00-0173 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67,494.94 169.40	282.31
26 24 19 00-0174 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, energy saving		
26 24 19 00-0175 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,371.64 68.83	114.69
26 24 19 00-0176 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,558.67 84.69	141.15
26 24 19 00-0177 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,716.02 97.92	163.21
26 24 19 00-0178 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,515.89 108.51	180.86
26 24 19 00-0179 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48,150.68 132.33	220.56
26 24 19 00-0180 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67,494.94 169.40	282.31
26 24 19 00-0181 Combination Starters With Fusible Switch <small>(26 24 19)</small> Note: Includes NEMA 1 enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.		
26 24 19 00-0182 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 1-Speed non-reversing.		
26 24 19 00-0183 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,037.16 52.94	88.22
26 24 19 00-0184 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,821.28 55.58	92.63
26 24 19 00-0185 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,779.42 58.23	97.04
26 24 19 00-0186 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,451.96 68.81	114.69
26 24 19 00-0187 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,741.55 79.40	132.33
26 24 19 00-0188 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,533.30 105.87	176.45
26 24 19 00-0189 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 1-Speed non-reversing.		
26 24 19 00-0190 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,037.16 52.94	88.22
26 24 19 00-0191 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,821.28 55.58	92.63
26 24 19 00-0192 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,779.42 58.23	97.04
26 24 19 00-0193 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,451.96 68.81	114.69
26 24 19 00-0194 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,741.55 79.40	132.33

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards And Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0195 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,533.30 105.87	176.45
26 24 19 00-0196 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 1-Speed reversing.		
26 24 19 00-0197 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,310.87 52.94	88.22
26 24 19 00-0198 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,947.81 55.58	92.63
26 24 19 00-0199 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,935.98 58.23	97.04
26 24 19 00-0200 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,950.90 68.81	114.69
26 24 19 00-0201 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,941.71 79.40	132.33
26 24 19 00-0202 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,916.61 105.87	176.45
26 24 19 00-0203 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 1-Speed reversing.		
26 24 19 00-0204 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,310.87 52.94	88.22
26 24 19 00-0205 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,947.81 55.58	92.63
26 24 19 00-0206 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,935.98 58.23	97.04
26 24 19 00-0207 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,950.90 68.81	114.69
26 24 19 00-0208 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,941.71 79.40	132.33
26 24 19 00-0209 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,916.61 105.87	176.45
26 24 19 00-0210 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0211 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,864.17 84.69	141.15
26 24 19 00-0212 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,330.52 89.99	149.98
26 24 19 00-0213 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,416.12 95.28	158.80
26 24 19 00-0214 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,070.20 108.51	180.86
26 24 19 00-0215 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,036.81 127.04	211.74
26 24 19 00-0216 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0217 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,864.17 84.69	141.15
26 24 19 00-0218 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,330.52 89.99	149.98
26 24 19 00-0219 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,416.12 95.28	158.80
26 24 19 00-0220 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,070.20 108.51	180.86
26 24 19 00-0221 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,036.81 127.04	211.74
26 24 19 00-0222 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0223 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,436.15 52.94	88.22
26 24 19 00-0224 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,779.73 55.58	92.63
26 24 19 00-0225 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,774.55 58.23	97.04
26 24 19 00-0226 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,731.42 68.81	114.69
26 24 19 00-0227 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0228 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,436.15 52.94	88.22
26 24 19 00-0229 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,779.73 55.58	92.63
26 24 19 00-0230 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,774.55 58.23	97.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0231 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,731.42 68.81	114.69
26 24 19 00-0232 230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Auto-transformer.		
26 24 19 00-0233 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,733.21 55.58	92.63
26 24 19 00-0234 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,909.90 60.87	101.45
26 24 19 00-0235 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,862.12 68.81	114.69
26 24 19 00-0236 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,527.30 79.40	132.33
26 24 19 00-0237 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,582.48 105.87	176.45
26 24 19 00-0238 480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Auto-transformer.		
26 24 19 00-0239 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,733.21 55.58	92.63
26 24 19 00-0240 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,909.90 60.87	101.45
26 24 19 00-0241 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,862.12 68.81	114.69
26 24 19 00-0242 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,527.30 79.40	132.33
26 24 19 00-0243 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,582.48 105.87	176.45
26 24 19 00-0244 230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Part winding.		
26 24 19 00-0245 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,763.52 84.69	141.15
26 24 19 00-0246 EA 25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,313.92 97.92	163.21
26 24 19 00-0247 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,079.50 108.51	180.86
26 24 19 00-0248 EA 75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,140.30 132.33	220.56
26 24 19 00-0249 480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Part winding.		
26 24 19 00-0250 EA 15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,763.52 84.69	141.15
26 24 19 00-0251 EA 40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,313.92 97.92	163.21
26 24 19 00-0252 EA 75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,079.50 108.51	180.86
26 24 19 00-0253 EA 150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,140.30 132.33	220.56
26 24 19 00-0254 230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Energy saver.		
26 24 19 00-0255 EA 7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,733.64 68.81	114.69
26 24 19 00-0256 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,929.57 84.69	141.15
26 24 19 00-0257 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,109.07 97.92	163.21
26 24 19 00-0258 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,013.06 108.51	180.86
26 24 19 00-0259 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47,760.81 132.33	220.56
26 24 19 00-0260 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64,821.27 169.40	282.31
26 24 19 00-0261 480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Energy saver.		
26 24 19 00-0262 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,733.64 68.81	114.69

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards And Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0263	EA		25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	20,929.57	141.15
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.69	
26 24 19 00-0264	EA		50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	23,109.07	163.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.92	
26 24 19 00-0265	EA		100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	35,013.06	180.86
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.51	
26 24 19 00-0266	EA		200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	47,760.81	220.56
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.33	
26 24 19 00-0267	EA		400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	64,821.27	282.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.40	
26 24 19 00-0268			Starter Accessories <small>(26 24 19)</small>		
26 24 19 00-0269			Starter Modifications <small>(26 24 19 00-0268)</small>		
26 24 19 00-0270	EA		Control Circuit Transformer 60 Hertz, Size 1, 2, 50 VA Standard.....	103.88	
26 24 19 00-0271	EA		Control Circuit Transformer 60 Hertz, Size 3, 4, 150 VA Standard.....	345.56	
26 24 19 00-0272	EA		Control Circuit Transformer 60 Hertz, Size 5, 6, 50 VA.....	493.98	
26 24 19 00-0273	EA		Control Circuit Transformer 60 Hertz, All Sizes, Extra 50 VA.....	124.05	
26 24 19 00-0274	EA		Control Circuit Transformer 60 Hertz, All Sizes, Extra 100 VA.....	175.00	
26 24 19 00-0275	EA		Control Circuit Transformer 60 Hertz, All Sizes, Extra 150 VA.....	294.61	
26 24 19 00-0276	EA		Overload Relay Heater Elements, 3 Per Starter.....	73.10	
26 24 19 00-0277	EA		N.O. Overload Relay Alarm.....	62.02	
26 24 19 00-0278	EA		Control Circuit Fuses, Primary/Secondary.....	98.42	
26 24 19 00-0279	EA		Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton.....	121.68	
26 24 19 00-0280	EA		Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton.....	237.99	
26 24 19 00-0281	EA		Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select.....	121.68	
26 24 19 00-0282	EA		Control Devices Type PB2 Mount On Device, Individual Light Full V.....	139.57	
26 24 19 00-0283	EA		Control Devices Type PB2 Mount On Device, Individual Light Transformer.....	168.20	
26 24 19 00-0284	EA		Control Devices Type PB2 Mount On Device, Individual Light Push To.....	198.62	
26 24 19 00-0285	EA		Blank Devices Panel.....	37.58	
26 24 19 00-0286	EA		Oversize Or Special Color Starter.....	59.05	
26 24 19 00-0287	EA		Mini Voltmeter/Ammeter With Current Transformer.....	518.55	
26 24 19 00-0288	EA		Mini Elapsed Time Meters, Non Resettable.....	470.24	
26 24 19 00-0289	EA		Panel Elapsed Time Meter, Resettable.....	697.86	
26 24 19 00-0290	EA		Terminal Blocks, Side Mounted, Press Connection, Plug-In Press.....	59.05	
26 24 19 00-0291	EA		Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw.....	84.10	
26 24 19 00-0292	EA		Terminal Blocks, Front Mounted, Press Connection, Standard.....	59.05	
26 24 19 00-0293	EA		Terminal Blocks, Front Mounted, Press Connection, Plug-In.....	84.10	
26 24 19 00-0294	EA		Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility.....	84.10	
26 24 19 00-0295	EA		Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type.....	121.68	
26 24 19 00-0296	EA		MOR - A Solid State Modular Overload Relay.....	302.41	
26 24 19 00-0297	EA		Heater Module.....	43.95	
26 24 19 00-0298	EA		LAM - Long Acceleration Module.....	273.01	
26 24 19 00-0299	EA		JAM - Jam Protection Module.....	312.96	
26 24 19 00-0300	EA		PUM - Phase Unbalance Module.....	593.96	
26 24 19 00-0301	EA		ULM - Underload Module.....	284.99	
26 24 19 00-0302	EA		Wiring To Common Control Circuit Transformer.....	62.59	
26 24 19 00-0303	EA		Handle Operator Separable Source Control Circuit.....	117.19	
26 24 19 00-0304	EA		Type SIS Control Wire.....	49.27	
26 24 19 00-0305	EA		Ring Or Spade Terminals Control.....	62.59	
26 24 19 00-0306	EA		Ring Terminals Power.....	62.59	
26 24 19 00-0307	EA		14 Gauge Control Wire.....	49.27	
26 24 19 00-0308	EA		Wiremakers.....	62.59	
26 24 19 00-0309	EA		Wiring Diagram On Door.....	37.29	
26 24 19 00-0310	EA		Special Color Or Type Control Wire.....	45.28	
26 24 19 00-0311	EA		Current Transformer 12.5 VA.....	355.57	
26 24 19 00-0312	EA		Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4.....	1,135.97	
26 24 19 00-0313	EA		Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6.....	1,278.47	
26 24 19 00-0314			Control Relays And Special Components <small>(26 24 19 00-0268)</small>		
26 24 19 00-0315	EA		Control Relays, 600 Volt, 2 Pole.....	718.82	
26 24 19 00-0316	EA		Control Relays, 600 Volt, 4 Pole.....	841.15	
26 24 19 00-0317	EA		Control Relays, 600 Volt, 6 Pole.....	972.31	
26 24 19 00-0318	EA		Control Relays, 600 Volt, 8 Pole.....	1,075.60	
26 24 19 00-0319	EA		Control Relays, Pneumatic Timer.....	977.86	
26 24 19 00-0320	EA		Control Relays, Motor Driven Timer.....	2,548.15	
26 24 19 00-0321	EA		Control Relays, 7 Day Time Switch.....	3,207.19	
26 24 19 00-0322	EA		Control Relays, 24 Hour Time Switch.....	899.35	
26 24 19 00-0323	EA		Control Relays, Phase Voltage.....	1,529.84	
26 24 19 00-0324	EA		Control Relays, Two Circuit Alternator.....	2,141.30	
26 24 19 00-0325	EA		Control Relays, Manual 120 Volt.....	209.37	
26 24 19 00-0326	EA		Control Relays, Over-Current Relay.....	2,540.96	
26 24 19 00-0327	EA		Control Relays, UV-Relay.....	2,152.09	
26 24 19 00-0328	EA		Control Relays, Over-Current Relay.....	2,152.09	
26 24 19 00-0329	EA		Control Relays, Teleductor.....	1,577.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0330 EA Control Relays, Current Transducer	4,242.16	
26 24 19 00-0331 EA Control Relays, Watt Transducer.....	8,484.32	
26 24 19 00-0332 EA Control Relays, Blank, Add For Each 1x.....	287.89	
26 24 19 00-0333 EA Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway.....	430.64	
26 24 19 00-0334 EA Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway.....	485.36	
26 24 19 00-0335 EA Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway.....	540.08	
26 24 19 00-0336 EA Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway.....	485.36	
26 24 19 00-0337 EA Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway.....	540.08	
26 24 19 00-0338 EA Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway.....	568.63	
26 24 19 00-0339 Circuit Breaker Modifications/Accessories (26 24 19 00-0268)		
26 24 19 00-0340 EA Circuit Breaker, Shunt Trip.....	267.29	
26 24 19 00-0341 EA Circuit Breaker, Auxiliary Switch.....	92.32	
26 24 19 00-0342 EA Circuit Breaker, Key Interlock	332.07	
26 24 19 00-0343 EA Circuit Breaker, GFR Ground Fault.....	1,530.80	
26 24 19 00-0344 EA Circuit Breaker, Seltronic Breaker.....	886.76	
26 24 19 00-0345 Incoming Line And Feeder Circuit Breakers (26 24 19 00-0268)		
26 24 19 00-0346 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100	1,113.00	57.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>34.40</i>	
26 24 19 00-0347 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150	1,925.87	88.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>52.94</i>	
26 24 19 00-0348 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/100	1,851.65	57.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>34.40</i>	
26 24 19 00-0349 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/150	2,662.95	88.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>52.94</i>	
26 24 19 00-0350 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150/150	3,415.59	88.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>52.94</i>	
26 24 19 00-0351 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 250	2,121.90	114.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>68.83</i>	
26 24 19 00-0352 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 400	3,430.23	123.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>74.12</i>	
26 24 19 00-0353 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 600	4,523.84	158.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>95.24</i>	
26 24 19 00-0354 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 800	5,332.43	242.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>145.61</i>	
26 24 19 00-0355 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 1200	7,556.33	366.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>219.85</i>	
26 24 19 00-0356 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2000	16,502.88	485.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>290.89</i>	
26 24 19 00-0357 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2500	24,636.73	608.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>364.90</i>	
26 24 19 00-0358 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 3000	41,042.89	705.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>423.83</i>	
26 24 19 00-0359 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50	1,335.37	57.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>34.40</i>	
26 24 19 00-0360 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150	2,142.02	88.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>52.94</i>	
26 24 19 00-0361 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50	1,335.37	57.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>34.40</i>	
26 24 19 00-0362 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/50	2,142.02	88.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>52.94</i>	
26 24 19 00-0363 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/150.....	2,263.73	57.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>34.40</i>	
26 24 19 00-0364 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150/150.....	3,101.47	88.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>52.94</i>	
26 24 19 00-0365 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50	3,844.78	88.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>52.94</i>	
26 24 19 00-0366 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 100	2,034.72	88.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>52.94</i>	
26 24 19 00-0367 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 400	5,158.27	242.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>145.61</i>	
26 24 19 00-0368 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-225	5,158.27	242.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>145.61</i>	
26 24 19 00-0369 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-400	6,935.86	264.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>158.73</i>	
26 24 19 00-0370 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-600	8,656.83	308.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>185.19</i>	
26 24 19 00-0371 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-800	9,963.53	366.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>219.85</i>	
26 24 19 00-0372 Incoming Line And Feeder Fusible Switches (26 24 19 00-0268)		
26 24 19 00-0373 EA Incoming Line And Feeder Fusible Switches, 30 Or 60 Amps.....	1,116.66	88.22
26 24 19 00-0374 EA Incoming Line And Feeder Fusible Switches, 30 Dual / 60 Dual	1,701.29	88.22
26 24 19 00-0375 EA Incoming Line And Feeder Fusible Switches, 100 Amps	1,927.99	110.28
26 24 19 00-0376 EA Incoming Line And Feeder Fusible Switches, 200 Amps	3,124.43	132.33
26 24 19 00-0377 EA Incoming Line And Feeder Fusible Switches, 400 Amps.....	6,137.17	167.62
26 24 19 00-0378 EA Incoming Line And Feeder Fusible Switches, 600 Amps	8,605.05	220.56
26 24 19 00-0379 EA Incoming Line And Feeder Fusible Switches, 800 Amps	20,873.03	295.54
26 24 19 00-0380 EA Incoming Line And Feeder Fusible Switches, 1,200 Amps.....	23,567.67	410.24



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 24 19 00-0381	Dry Type Distribution Transformers <small>(26 24 19 00-0268)</small>		
26 24 19 00-0382	EA 500 VA, Phase 1, Dry Type Distribution Transformers	1,060.54	
26 24 19 00-0383	EA 750 VA, Phase 1, Dry Type Distribution Transformers	1,094.75	
26 24 19 00-0384	EA 1,000 VA, Phase 1, Dry Type Distribution Transformers	1,130.51	
26 24 19 00-0385	EA 1,500 VA, Phase 1, Dry Type Distribution Transformers	1,296.90	
26 24 19 00-0386	EA 2,000 VA, Phase 1, Dry Type Distribution Transformers	1,405.75	
26 24 19 00-0387	EA 3,000 VA, Phase 1, Dry Type Distribution Transformers	1,428.95	
26 24 19 00-0388	EA 5,000 VA, Phase 1, Dry Type Distribution Transformers	1,912.70	
26 24 19 00-0389	EA 7,500 VA, Phase 1, Dry Type Distribution Transformers	2,155.28	
26 24 19 00-0390	EA 9,000 VA, Phase 3, Dry Type Distribution Transformers	5,010.33	
26 24 19 00-0391	EA 10,000 VA, Phase 1, Dry Type Distribution Transformers	2,659.11	
26 24 19 00-0392	EA 15,000 VA, Phase 1, Dry Type Distribution Transformers	3,683.88	
26 24 19 00-0393	EA 15,000 VA, Phase 3, Dry Type Distribution Transformers	5,741.20	
26 24 19 00-0394	EA 20,000 VA, Phase 1, Dry Type Distribution Transformers	5,316.67	
26 24 19 00-0395	EA 30,000 VA, Phase 1, Dry Type Distribution Transformers	7,367.76	
26 24 19 00-0396	EA 30,000 VA, Phase 3, Dry Type Distribution Transformers	6,831.82	
26 24 19 00-0397	EA 45,000 VA, Phase 1, Dry Type Distribution Transformers	9,463.33	
26 24 19 00-0398	Metering Equipment <small>(26 24 19 00-0268)</small>		
26 24 19 00-0399	EA Metering Equipment, Voltmeter, Panel Type	576.18	
26 24 19 00-0400	EA Metering Equipment, Voltmeter, Switchboard Type	1,259.72	
26 24 19 00-0401	EA Metering Equipment, Ammeter, Panel	518.92	
26 24 19 00-0402	EA Metering Equipment, Ammeter, Switchboard Type	1,259.72	
26 24 19 00-0403	EA Metering Equipment, Voltmeter/Ammeter, Switch	699.65	
26 24 19 00-0404	EA Metering Equipment, Control Switch, 4 Circuits	742.59	
26 24 19 00-0405	EA Add For Additional Circuits	73.25	
26 24 19 00-0406	EA Metering Equipment, Indicating Wattmeter	2,598.18	
26 24 19 00-0407	EA Metering Equipment, Indicating Power Factor	2,721.65	
26 24 19 00-0408	EA Metering Equipment, Integrating Watt-hour	2,399.56	
26 24 19 00-0409	EA Add For Demand Attachment	479.43	
26 24 19 00-0410	EA Metering Equipment, Current Transformer, 800 Amp	717.54	
26 24 19 00-0411	EA Metering Equipment, Current Transformer, 1,000 Amp	1,238.25	
26 24 19 00-0412	EA Metering Equipment, Current Transformer, 2,000 Amp	1,442.24	
26 24 19 00-0413	EA Metering Equipment, Potential Transformer	1,202.46	
26 24 19 00-0414	EA Metering Equipment, Surge Arrester	1,293.72	
26 24 19 00-0415	EA Metering Equipment, Ground Detector System	989.53	
26 24 19 00-0416	Current Limiting Reactors <small>(26 24 19 00-0268)</small>		
26 24 19 00-0417	EA Current Limiting Reactors, 600 Amps	19,193.82	
26 24 19 00-0418	EA Current Limiting Reactors, 800 Amps	27,951.79	
26 24 19 00-0419	EA Current Limiting Reactors, 1,000 Amps	36,729.97	
26 24 19 00-0420	EA Current Limiting Reactors, 1,200 Amps	55,909.80	
26 24 19 00-0421	Incoming Line Cable Space Requirements, Main Lugs Only <small>(26 24 19 00-0268)</small>		
26 24 19 00-0422	EA Incoming Line Cable Space Requirement, 350 MCC, 2 Screw	480.68	
26 24 19 00-0423	EA Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp	480.68	
26 24 19 00-0424	EA Incoming Line Cable Space Requirement, 350 MCC, 4 Screw	664.54	
26 24 19 00-0425	EA Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp	1,216.11	
26 24 19 00-0426	EA Incoming Line Cable Space Requirement, 600 MCC, 2 Screw	664.54	
26 24 19 00-0427	EA Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp	848.40	
26 24 19 00-0428	EA Incoming Line Cable Space Requirement, 600 MCC, 4 Screw	848.40	
26 24 19 00-0429	EA Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp	1,213.89	
26 24 19 00-0430	EA Incoming Line Cable Space Requirement, 750 MCC, 2 Screw	848.40	
26 24 19 00-0431	EA Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp	1,213.89	
26 24 19 00-0432	EA Incoming Line Cable Space Requirement, 750 MCC, 4 Screw	1,032.25	
26 24 19 00-0433	EA Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp	3,347.07	
26 24 19 00-0434	EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw	1,032.25	
26 24 19 00-0435	EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp	1,213.89	
26 24 19 00-0436	EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw	3,347.07	
26 24 19 00-0437	EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp	3,347.07	
26 24 19 00-0438	EA Bus Duct Transition Pull Box	521.89	
26 24 19 00-0439	EA Throat And Transition To Substation	1,007.50	
26 24 19 00-0440	EA Service Entrance Label	218.19	
26 24 19 00-0441	EA Type W To 5 Star - 10" Transition	456.07	
26 24 19 00-0442	EA 600 Ampere Sub Feed Lugs On Main Bus	318.29	
26 24 19 00-0443	Standard Structures And Structure Options/Modifications <small>(26 24 19 00-0268)</small>		
26 24 19 00-0444	EA Standard Structure Add For Each Additional 4" Of Structure Width	144.08	
26 24 19 00-0445	EA Standard Structure Add For 8" Vertical Wireway In Lieu Of 4"	144.08	
26 24 19 00-0446	EA Standard Structure Single Corner Section "L", 16" Depth	445.71	
26 24 19 00-0447	EA Standard Structure Single Corner Section "L", 21" Depth	502.71	
26 24 19 00-0448	EA Standard Structure Unused Space/Future Space	43.02	
26 24 19 00-0449	EA Standard Structure NEMA 12 Dustproof	116.09	
26 24 19 00-0450	EA Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure	24.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0451 EA Standard Structure 150 Watt Space	104.69	
26 24 19 00-0452 EA Standard Structure Thermostat For Space Heater Control	387.54	
26 24 19 00-0453 EA Standard Structure Rear Hinged Structure Door, 72" High	104.69	
26 24 19 00-0454 EA Standard Structure NEMA 2 Drip Shield On Top Of MCC	250.37	
26 24 19 00-0455 EA Standard Structure NEMA 3R N-Walk In Front Mounted	3,571.72	
26 24 19 00-0456 EA Standard Structure NEMA 3R N-Walk In Back-to-back	4,128.39	
26 24 19 00-0457 EA Standard Structure NEMA 3R Walk-In Aisle Front Mounted.....	4,132.38	
26 24 19 00-0458 Installation Hours For Vertical Sections (26 24 19 00-0268)		
26 24 19 00-0459 EA Install Vertical Section, 230/480 Volt, 1 Section, 600 Amps	529.32	264.66
26 24 19 00-0460 EA Install Vertical Section, 230/480 Volt, 2 Section, 600 Amps	793.97	397.01
26 24 19 00-0461 EA Install Vertical Section, 230/480 Volt, 3 Section, 600 Amps	882.23	441.11
26 24 19 00-0462 EA Install Vertical Section, 230/480 Volt, 4 Section, 600 Amps	1,058.77	529.34
26 24 19 00-0463 EA Install Vertical Section, 230/480 Volt, Bolt To Floor, 600 Amps	88.22	44.11
26 24 19 00-0464 EA Install Vertical Section, 230/480 Volt, 1 Section, 800 Amps	529.32	264.66
26 24 19 00-0465 EA Install Vertical Section, 230/480 Volt, 2 Section, 800 Amps	793.97	397.01
26 24 19 00-0466 EA Install Vertical Section, 230/480 Volt, 3 Section, 800 Amps	882.23	441.11
26 24 19 00-0467 EA Install Vertical Section, 230/480 Volt, 4 Section, 800 Amps	1,058.77	529.34
26 24 19 00-0468 EA Install Vertical Section, 230/480 Volt, Bolt To Floor, 800 Amps	88.22	44.11
26 24 19 00-0469 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,200 Amps.....	617.57	308.78
26 24 19 00-0470 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,200 Amps.....	793.97	397.01
26 24 19 00-0471 EA Install Vertical Section, 230/480 Volt, 3 Section, 1,200 Amps.....	1,058.77	529.34
26 24 19 00-0472 EA Install Vertical Section, 230/480 Volt, 4 Section, 1,200 Amps.....	1,234.97	617.47
26 24 19 00-0473 EA Install Vertical Section, 230/480 Volt, Bolt To Floor, 1,200 Amps	132.33	66.17
26 24 19 00-0474 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,600 Amps.....	705.79	352.89
26 24 19 00-0475 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,600 Amps.....	970.53	485.22
26 24 19 00-0476 EA Install Vertical Section, 230/480 Volt, 3 Section, 1,600 Amps.....	1,234.97	617.47
26 24 19 00-0477 EA Install Vertical Section, 230/480 Volt, 4 Section, 1,600 Amps.....	1,411.32	705.70
26 24 19 00-0478 EA Install Vertical Section, 230/480 Volt, Bolt To Floor, 1,600 Amps	176.45	88.22
26 24 19 00-0479 EA Install Vertical Section, 230/480 Volt, 1 Section, 2,000 Amps.....	705.79	352.89
26 24 19 00-0480 EA Install Vertical Section, 230/480 Volt, 2 Section, 2,000 Amps.....	1,058.77	529.34
26 24 19 00-0481 EA Install Vertical Section, 230/480 Volt, 3 Section, 2,000 Amps.....	1,323.20	661.58
26 24 19 00-0482 EA Install Vertical Section, 230/480 Volt, 4 Section, 2,000 Amps.....	1,499.88	749.99
26 24 19 00-0483 EA Install Vertical Section, 230/480 Volt, Bolt To Floor, 2,000 Amps.....	176.45	88.22
26 24 19 00-0484 Motor Control Centers (26 24 19)		
26 24 19 00-0485 2.4 KV Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0486 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 100 To 300 Hp	14,917.26	176.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.87	
26 24 19 00-0487 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 400 Hp	14,917.26	176.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.87	
26 24 19 00-0488 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 600 Hp	14,917.26	176.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.87	
26 24 19 00-0489 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 700 Hp	14,961.40	198.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	119.11	
26 24 19 00-0490 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,000 Hp	15,887.36	220.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.33	
26 24 19 00-0491 EA 2,400 KV CL 11-202, Squirrel Cage Motor Control, 1,250 Hp	15,931.46	242.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	145.56	
26 24 19 00-0492 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,500 Hp	15,975.57	264.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	158.80	
26 24 19 00-0493 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,750 Hp	16,063.82	308.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	185.27	
26 24 19 00-0494 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,000 Hp	16,152.04	352.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	211.74	
26 24 19 00-0495 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,250 Hp	27,232.53	397.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	238.19	
26 24 19 00-0496 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,500 Hp	29,227.08	441.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	264.67	
26 24 19 00-0497 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 100 Hp	22,146.89	176.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.87	
26 24 19 00-0498 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 150 Hp	23,071.28	189.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.81	
26 24 19 00-0499 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 200 Hp	26,211.85	207.33
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	124.40	
26 24 19 00-0500 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 300 Hp	29,177.90	220.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.33	
26 24 19 00-0501 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 400 Hp	31,742.72	255.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.52	
26 24 19 00-0502 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 600 Hp	34,779.94	273.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	164.10	
26 24 19 00-0503 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 700 Hp	37,815.35	291.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	174.67	
26 24 19 00-0504 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,000 Hp	41,415.46	317.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	190.57	
26 24 19 00-0505 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,250 Hp	48,197.22	352.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	211.74	
26 24 19 00-0506 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,500 Hp	52,219.63	374.95
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	224.99	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards And Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24	19 00-0507	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 1,750 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79,770.34 264.67	441.11
26 24	19 00-0508	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 2,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84,989.58 291.16	485.22
26 24	19 00-0509	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 2,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89,531.75 317.63	529.34
26 24	19 00-0510	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97,491.07 344.13	573.54
26 24	19 00-0511	EA	2.4 KV CL 14-202, Synchronous Motor Control, 100 To 300 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,894.44 105.87	176.45
26 24	19 00-0512	EA	2.4 KV CL 14-202, Synchronous Motor Control, 400 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,938.58 119.11	198.50
26 24	19 00-0513	EA	2.4 KV CL 14-202, Synchronous Motor Control, 600 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,982.66 132.33	220.56
26 24	19 00-0514	EA	2.4 KV CL 14-202, Synchronous Motor Control, 700 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,026.76 145.56	242.62
26 24	19 00-0515	EA	2.4 KV CL 14-202, Synchronous Motor Control, 1,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,074.44 158.80	264.66
26 24	19 00-0516	EA	2,400 Volt CL 14-202, Synchronous Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,118.59 172.04	286.72
26 24	19 00-0517	EA	2.4 KV CL 14-202, Synchronous Motor Control, 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,162.69 185.27	308.78
26 24	19 00-0518	EA	2.4 KV CL 14-202, Synchronous Motor Control, 1,750 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,339.09 238.19	397.01
26 24	19 00-0519	EA	2.4 KV CL 14-202, Synchronous Motor Control, 2,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36,397.91 264.67	441.11
26 24	19 00-0520	EA	2.4 KV CL 14-202, Synchronous Motor Control, 2,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36,486.21 291.16	485.22
26 24	19 00-0521	EA	2.4 KV CL 14-202, Synchronous Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38,470.05 317.63	529.34
26 24	19 00-0522	EA	Add For Reversing Starters, 100 To 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,211.35 52.94	
26 24	19 00-0523	EA	Add For Reversing Starters, 1,000 To 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,460.77 52.94	
26 24	19 00-0524	EA	Add For Reversing Starters, 1,750 To 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,959.25 52.94	
26 24 19 00-0525 4.8 KV Motor Control Centers (26 24 19 00-0484)					
26 24	19 00-0526	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 100 To 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,224.99 158.80	264.66
26 24	19 00-0527	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,269.14 172.04	286.72
26 24	19 00-0528	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,313.24 185.27	308.78
26 24	19 00-0529	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,357.38 198.51	330.84
26 24	19 00-0530	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,274.43 211.74	352.89
26 24	19 00-0531	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,318.59 224.99	374.95
26 24	19 00-0532	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,362.61 238.19	397.01
26 24	19 00-0533	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,406.80 251.45	419.05
26 24	19 00-0534	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,450.87 264.67	441.11
26 24	19 00-0535	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,589.92 344.13	573.54
26 24	19 00-0536	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,677.80 370.49	617.47
26 24	19 00-0537	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,663.41 396.96	661.58
26 24	19 00-0538	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,751.53 423.40	705.70
26 24	19 00-0539	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,576.30 158.80	264.66
26 24	19 00-0540	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,869.87 172.04	286.72
26 24	19 00-0541	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,673.09 185.27	308.78
26 24	19 00-0542	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,647.92 198.51	330.84
26 24	19 00-0543	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,186.21 211.74	352.89
26 24	19 00-0544	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,232.32 224.99	374.95
26 24	19 00-0545	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38,091.23 238.19	397.01
26 24	19 00-0546	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41,867.82 251.45	419.05
26 24	19 00-0547	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48,503.71 264.67	441.11



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0548	EA			4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53,012.47 277.91	463.17
26 24 19 00-0549	EA			4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57,565.34 304.38	507.28
26 24 19 00-0550	EA			4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61,331.21 317.63	529.34
26 24 19 00-0551	EA			4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64,883.14 330.83	551.40
26 24 19 00-0552	EA			4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69,853.50 344.13	573.54
26 24 19 00-0553	EA			4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110,755.44 423.40	705.70
26 24 19 00-0554	EA			4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123,172.50 449.96	749.99
26 24 19 00-0555	EA			4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	148,068.98 476.38	794.00
26 24 19 00-0556	EA			4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	156,629.45 476.38	794.00
26 24 19 00-0557	EA			4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,286.86 185.27	308.78
26 24 19 00-0558	EA			4.8 KV CL 14-202, Synchronous Motor Control, 700 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,331.00 198.51	330.84
26 24 19 00-0559	EA			4.8 KV CL 14-202, Synchronous Motor Control, 1,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,375.08 211.74	352.89
26 24 19 00-0560	EA			4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,419.24 224.99	374.95
26 24 19 00-0561	EA			4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,341.04 238.19	397.01
26 24 19 00-0562	EA			4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,385.23 251.45	419.05
26 24 19 00-0563	EA			4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,429.30 264.67	441.11
26 24 19 00-0564	EA			4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,473.43 277.91	463.17
26 24 19 00-0565	EA			4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,517.60 291.16	485.22
26 24 19 00-0566	EA			4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,782.04 370.49	617.47
26 24 19 00-0567	EA			4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40,090.26 396.96	661.58
26 24 19 00-0568	EA			4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42,066.85 423.40	705.70
26 24 19 00-0569	EA			4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42,066.85 423.40	705.70
26 24 19 00-0570	EA			Add For Reversing Starters, 100 To 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,166.71 52.94	
26 24 19 00-0571	EA			Add For Reversing Starters, 1,500 To 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,476.83 52.94	
26 24 19 00-0572	EA			Add For Reversing Starters, 3,000 To 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,070.04 52.94	
26 24 19 00-0573				2.4/4.8 KV Motor Control Centers, Accessories <small>(26 24 19 00-0484)</small>		
26 24 19 00-0574	EA			2.4/4.8 KV Load Break Disconnect Switch 600 Amp.....	13,200.67	176.45
26 24 19 00-0575	EA			2.4/4.8 KV Load Break Disconnect Switch 1,200 Amp.....	15,838.11	264.66
26 24 19 00-0576	EA			2.4/4.8 KV NEMA 3 Weather Resistant.....	5,229.93	
26 24 19 00-0577	EA			2.4/4.8 KV Space Heaters.....	192.48	13.23
26 24 19 00-0578	EA			2.4/4.8 KV Potential Transformer Fused.....	1,515.15	
26 24 19 00-0579	EA			2.4/4.8 KV Current Transformer 600 Volt, 5 KVA.....	812.95	
26 24 19 00-0580	EA			2.4/4.8 KV Control Transformer 4 KVA Max.....	2,421.14	
26 24 19 00-0581	EA			2.4/4.8 KV Pushbuttons Each.....	155.06	
26 24 19 00-0582	EA			2.4/4.8 KV Selector Switch Each.....	513.91	
26 24 19 00-0583	EA			2.4/4.8 KV Indicating Light.....	155.06	
26 24 19 00-0584	EA			2.4/4.8 KV Push To Test Light.....	469.61	
26 24 19 00-0585	EA			2.4/4.8 KV AC Voltmeter, Switchboard Type.....	1,249.34	
26 24 19 00-0586	EA			2.4/4.8 KV AC Ammeter, Switchboard Type.....	1,249.34	
26 24 19 00-0587	EA			2.4/4.8 KV Power Factor Meter.....	3,736.93	
26 24 19 00-0588	EA			2.4/4.8 KV Watt Hr Meter, 2 Element Drawout.....	2,576.20	
26 24 19 00-0589	EA			2.4/4.8 KV Operation Counter.....	496.08	13.23
26 24 19 00-0590	EA			2.4/4.8 KV Phase Failure Protection.....	3,592.56	44.11
26 24 19 00-0591	EA			2.4/4.8 KV Ground Protection.....	6,893.31	22.06
26 24 19 00-0592	EA			2.4/4.8 KV Synchronous Motor DC Protection.....	2,474.18	22.06
26 24 19 00-0593	EA			2.4/4.8 KV Lightning Arresters.....	2,946.97	13.23
26 24 19 00-0594	EA			2.4/4.8 KV Portable Lifting Mechanism.....	4,257.16	
26 24 19 00-0595	EA			2.4/4.8 KV Auxiliary Timing Relay.....	473.64	44.11
26 24 19 00-0596	EA			2.4/4.8 KV Auxiliary Control Relay.....	343.10	44.11
26 24 19 00-0597				Incoming Section And Feeder Air Circuit Breakers <small>(26 24 19 00-0484)</small>		
<small>Note: 3 Pole. Includes structure.</small>						
26 24 19 00-0598	EA			Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amp, 14,000 Amp IC, 3-Pole, With Structure Included.....	1,072.63	264.42
26 24 19 00-0599	EA			Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amp, 22,000 Amp IC, 3-Pole, With Structure Included.....	1,858.67	468.03
26 24 19 00-0600	EA			Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amp, 30,000 Amp IC, 3-Pole, With Structure Included.....	2,208.02	599.27

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards And Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0601	EA		Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amp, 30,000 Amp IC, 3-Pole, With Structure Included.....	3,553.77	965.01
26 24 19 00-0602	EA		Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amp, 30,000 Amp IC, 3-Pole, With Structure Included.....	4,194.30	1,061.52
26 24 19 00-0603	EA		Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amp, 30,000 Amp IC, 3-Pole, With Structure Included.....	5,475.07	1,177.32
26 24 19 00-0604	EA		Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amp, 45,000 Amp IC, 3-Pole, With Structure Included.....	6,368.70	1,379.97
26 24 19 00-0605	EA		Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amp, 100,000 Amp IC, 3-Pole, With Structure Included.....	11,273.89	1,607.72
26 24 19 00-0606			Main Lugs Only (2624 19 00-0484)		
26 24 19 00-0607	EA		600 Amp Incoming Section, Main Lugs.....	817.10	337.76
26 24 19 00-0608	EA		800 Amp Incoming Section, Main Lugs.....	885.42	337.76
26 24 19 00-0609	EA		1,200 Amp Incoming Section, Main Lugs.....	1,231.88	530.76
26 24 19 00-0610	EA		2,000 Amp Incoming Section, Main Lugs.....	3,134.12	965.01
26 24 19 00-0611	EA		3,000 Amp Incoming Section, Main Lugs.....	4,782.69	1,399.27
26 24 19 00-0612	EA		4,000 Amp Incoming Section, Main Lugs.....	6,858.11	1,930.03
26 24 19 00-0613			Incoming Main Circuit Breaker Structure (2624 19 00-0484)		
Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.					
26 24 19 00-0614	EA		225 Amp, Main Circuit Breaker Section	6,026.53	466.97
			For 800 Amp Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0615	EA		400 Amp, Main Circuit Breaker Section	12,910.75	599.85
			For 800 Amp Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0616	EA		600 Amp, Main Circuit Breaker Section	13,311.46	934.33
			For 800 Amp Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0617	EA		800 Amp, Main Circuit Breaker Section	19,031.98	934.33
			For 800 Amp Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0618	EA		1,200 Amp, Main Circuit Breaker Section	27,635.46	1,057.17
			For 800 Amp Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0619			Incoming Fusible Main Disconnect Section (26 24 19 00-0484)		
Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.					
26 24 19 00-0620	EA		200 Amp, Fusible Main Disconnect Section.....	5,214.22	467.55
			For 800 Amp Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0621	EA		400 Amp, Fusible Main Disconnect Section.....	7,213.08	600.14
			For 800 Amp Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0622	EA		600 Amp, Fusible Main Disconnect Section.....	14,163.04	935.10
			For 800 Amp Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0623	EA		800 Amp, Fusible Main Disconnect Section.....	16,509.71	935.10
			For 800 Amp Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0624	EA		1,200 Amp, Fusible Main Disconnect Section.....	23,329.81	1,058.14
			For 800 Amp Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0625 Circuit Breaker Combination Starters <small>(26 24 19 00-0484)</small>		
26 24 19 00-0626 Class I, Type A <small>(26 24 19 00-0625)</small>		
26 24 19 00-0627 EA Size 1, Class I, Type A Circuit Breaker Combination Starter	904.14	195.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.69	
26 24 19 00-0628 EA Size 2, Class I, Type A Circuit Breaker Combination Starter	1,054.39	195.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	123.72	
26 24 19 00-0629 EA Size 3, Class I, Type A Circuit Breaker Combination Starter	1,536.24	277.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	166.38	
26 24 19 00-0630 EA Size 4, Class I, Type A Circuit Breaker Combination Starter	2,523.54	365.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	219.32	
26 24 19 00-0631 EA Size 5, Class I, Type A Circuit Breaker Combination Starter	4,571.41	457.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	274.16	
26 24 19 00-0632 Class I, Type B <small>(26 24 19 00-0625)</small>		
26 24 19 00-0633 EA Size 1, Class I, Type B Circuit Breaker Combination Starter	859.61	170.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.50	
26 24 19 00-0634 EA Size 2, Class I, Type B Circuit Breaker Combination Starter	1,004.24	170.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	108.68	
26 24 19 00-0635 EA Size 3, Class I, Type B Circuit Breaker Combination Starter	1,476.51	247.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.46	
26 24 19 00-0636 EA Size 4, Class I, Type B Circuit Breaker Combination Starter	2,462.61	334.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	201.05	
26 24 19 00-0637 EA Size 5, Class I, Type B Circuit Breaker Combination Starter	4,522.27	427.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	259.41	
26 24 19 00-0638 Class I, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0639 EA Size 1, Class I, Type C Circuit Breaker Combination Starter	911.69	158.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.41	
26 24 19 00-0640 EA Size 2, Class I, Type C Circuit Breaker Combination Starter	1,064.69	158.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.66	
26 24 19 00-0641 EA Size 3, Class I, Type C Circuit Breaker Combination Starter	1,586.22	236.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	141.92	
26 24 19 00-0642 EA Size 4, Class I, Type C Circuit Breaker Combination Starter	2,577.81	327.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	196.14	
26 24 19 00-0643 EA Size 5, Class I, Type C Circuit Breaker Combination Starter	4,630.72	419.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	251.31	
26 24 19 00-0644 Class II, Type B <small>(26 24 19 00-0625)</small>		
26 24 19 00-0645 EA Size 1, Class II, Type B Circuit Breaker Combination Starter	898.14	234.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.56	
26 24 19 00-0646 EA Size 2, Class II, Type B Circuit Breaker Combination Starter	1,253.14	234.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.01	
26 24 19 00-0647 EA Size 3, Class II, Type B Circuit Breaker Combination Starter	1,783.69	312.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	187.02	
26 24 19 00-0648 EA Size 4, Class II, Type B Circuit Breaker Combination Starter	2,934.33	400.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	241.26	
26 24 19 00-0649 EA Size 5, Class II, Type B Circuit Breaker Combination Starter	5,341.11	489.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	294.21	
26 24 19 00-0650 Class II, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0651 EA Size 1, Class II, Type C Circuit Breaker Combination Starter	1,133.95	221.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	126.98	
26 24 19 00-0652 EA Size 2, Class II, Type C Circuit Breaker Combination Starter	1,304.41	221.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	138.65	
26 24 19 00-0653 EA Size 3, Class II, Type C Circuit Breaker Combination Starter	1,898.43	303.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	181.39	
26 24 19 00-0654 EA Size 4, Class II, Type C Circuit Breaker Combination Starter	3,042.44	390.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	234.23	
26 24 19 00-0655 EA Size 5, Class II, Type C Circuit Breaker Combination Starter	5,462.81	482.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	290.67	
26 24 19 00-0656 Fused Disconnect Combination Starter <small>(26 24 19 00-0484)</small>		
26 24 19 00-0657 Class I, Type A <small>(26 24 19 00-0656)</small>		
26 24 19 00-0658 EA Size 1, Class I, Type A Fused Disconnect Combination Starter	823.16	180.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	108.68	
26 24 19 00-0659 EA Size 2, Class I, Type A Fused Disconnect Combination Starter	1,245.29	247.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.01	
26 24 19 00-0660 EA Size 3, Class I, Type A Fused Disconnect Combination Starter	1,990.15	321.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	193.01	
26 24 19 00-0661 EA Size 4, Class I, Type A Fused Disconnect Combination Starter	2,720.66	450.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	271.07	
26 24 19 00-0662 EA Size 5, Class I, Type A Fused Disconnect Combination Starter	4,799.87	574.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	344.65	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards And Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0663 Class I, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0664 EA Size 1, Class I, Type B Fused Disconnect Combination Starter .....841.94	841.94	161.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.50	
26 24 19 00-0665 EA Size 2, Class I, Type B Fused Disconnect Combination Starter .....1,133.24	1,133.24	220.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.56	
26 24 19 00-0666 EA Size 3, Class I, Type B Fused Disconnect Combination Starter .....1,681.56	1,681.56	295.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.39	
26 24 19 00-0667 EA Size 4, Class I, Type B Fused Disconnect Combination Starter .....2,823.27	2,823.27	426.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	256.65	
26 24 19 00-0668 EA Size 5, Class I, Type B Fused Disconnect Combination Starter .....4,889.29	4,889.29	542.34
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	326.02	
26 24 19 00-0669 Class I, Type C <small>(26 24 19 00-0656)</small>		
26 24 19 00-0670 EA Size 1, Class I, Type C Fused Disconnect Combination Starter .....894.10	894.10	150.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.36	
26 24 19 00-0671 EA Size 2, Class I, Type C Fused Disconnect Combination Starter .....1,201.27	1,201.27	204.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.72	
26 24 19 00-0672 EA Size 3, Class I, Type C Fused Disconnect Combination Starter .....1,833.06	1,833.06	284.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.32	
26 24 19 00-0673 EA Size 4, Class I, Type C Fused Disconnect Combination Starter .....2,973.87	2,973.87	419.79
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	251.31	
26 24 19 00-0674 EA Size 5, Class I, Type C Fused Disconnect Combination Starter .....4,621.83	4,621.83	536.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	321.67	
26 24 19 00-0675 Class II, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0676 EA Size 1, Class II, Type B Fused Disconnect Combination Starter .....1,058.44	1,058.44	225.81
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.54	
26 24 19 00-0677 EA Size 2, Class II, Type B Fused Disconnect Combination Starter .....1,368.97	1,368.97	281.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.71	
26 24 19 00-0678 EA Size 3, Class II, Type B Fused Disconnect Combination Starter .....1,992.00	1,992.00	362.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	217.34	
26 24 19 00-0679 EA Size 4, Class II, Type B Fused Disconnect Combination Starter .....3,258.69	3,258.69	489.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	294.21	
26 24 19 00-0680 EA Size 5, Class II, Type B Fused Disconnect Combination Starter .....5,623.75	5,623.75	610.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	365.54	
26 24 19 00-0681 Class II, Type C <small>(26 24 19 00-0656)</small>		
26 24 19 00-0682 EA Size 1, Class II, Type C Fused Disconnect Combination Starter .....1,102.54	1,102.54	212.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.98	
26 24 19 00-0683 EA Size 2, Class II, Type C Fused Disconnect Combination Starter .....1,436.67	1,436.67	266.34
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	159.77	
26 24 19 00-0684 EA Size 3, Class II, Type C Fused Disconnect Combination Starter .....2,120.34	2,120.34	346.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	207.98	
26 24 19 00-0685 EA Size 4, Class II, Type C Fused Disconnect Combination Starter .....3,394.90	3,394.90	477.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	287.21	
26 24 19 00-0686 EA Size 5, Class II, Type C Fused Disconnect Combination Starter .....5,756.34	5,756.34	591.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	354.79	
26 24 19 00-0687 Space Complete With Bus And Hardware <small>(26 24 19 00-0484)</small>		
26 24 19 00-0688 Circuit Breaker Type <small>(26 24 19 00-0687)</small>		
26 24 19 00-0689 EA Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware .....252.48	252.48	65.63
26 24 19 00-0690 EA Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware .....252.48	252.48	65.63
26 24 19 00-0691 EA Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware .....375.57	375.57	95.53
26 24 19 00-0692 EA Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware .....443.12	443.12	125.45
26 24 19 00-0693 EA Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware .....748.26	748.26	191.08
26 24 19 00-0694 Fused Disconnect Type <small>(26 24 19 00-0687)</small>		
26 24 19 00-0695 EA Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware .....252.48	252.48	65.63
26 24 19 00-0696 EA Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware .....332.85	332.85	95.53
26 24 19 00-0697 EA Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware .....464.02	464.02	125.45
26 24 19 00-0698 EA Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware .....806.60	806.60	191.08
26 24 19 00-0699 EA Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware .....1,121.88	1,121.88	277.92
26 24 19 00-0700 Blank Space For Future Expansion <small>(26 24 19 00-0687)</small>		
Note: Factory modified no labor costs.		
26 24 19 00-0701 EA Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs .....121.72	121.72	
26 24 19 00-0702 EA Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs .....121.72	121.72	
26 24 19 00-0703 EA Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs .....184.55	184.55	
26 24 19 00-0704 EA Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs .....184.55	184.55	
26 24 19 00-0705 EA Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs .....367.13	367.13	
26 24 19 00-0706 Structure Combination Of Starters To 72" High <small>(26 24 19 00-0687)</small>		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				26 24 19 00-0707 EA Structure Combination Of Starters To 72" High	2,994.56	507.89
26 24 19 00-0708				Motor Control Center Basic Distribution Section <small>(26 24 19 00-0484)</small>		
				26 24 19 00-0709 EA 20" Wide Basic Section With Vertical Wireway	4,915.36	1,322.65
				<i>For 20" Cabinet Depth, Add</i>	108.00	
				<i>For 800 Amp Tin Plated Copper Bus, Add</i>	182.00	
				<i>For 1,200 Amp Tin Plated Copper Bus, Add</i>	334.00	
				<i>For 1,600 Amp Tin Plated Copper Bus, Add</i>	402.00	
				<i>For 2,000 Amp Tin Plated Copper Bus, Add</i>	506.00	
				<i>For NEMA 1 With Gasket, Add</i>	97.00	
				<i>For NEMA 12, Add</i>	245.00	
				<i>For 600 Amp Tin Plated Copper Vertical, Add</i>	210.00	
				26 24 19 00-0710 EA 25"-35" Wide Basic Section (No Vertical Wireway).....	4,915.36	1,322.65
				<i>For 20" Cabinet Depth, Add</i>	108.00	
				<i>For 800 Amp Tin Plated Copper Bus, Add</i>	182.00	
				<i>For 1,200 Amp Tin Plated Copper Bus, Add</i>	334.00	
				<i>For 1,600 Amp Tin Plated Copper Bus, Add</i>	402.00	
				<i>For 2,000 Amp Tin Plated Copper Bus, Add</i>	506.00	
				<i>For NEMA 1 With Gasket, Add</i>	97.00	
				<i>For NEMA 12, Add</i>	245.00	
				<i>For 600 Amp Tin Plated Copper Vertical, Add</i>	210.00	
				26 24 19 00-0711 EA 25" Wide Basic Section With 9" Wide Vertical Wireway	5,450.26	1,322.65
				<i>For 20" Cabinet Depth, Add</i>	108.00	
				<i>For 800 Amp Tin Plated Copper Bus, Add</i>	182.00	
				<i>For 1,200 Amp Tin Plated Copper Bus, Add</i>	334.00	
				<i>For 1,600 Amp Tin Plated Copper Bus, Add</i>	402.00	
				<i>For 2,000 Amp Tin Plated Copper Bus, Add</i>	506.00	
				<i>For NEMA 1 With Gasket, Add</i>	97.00	
				<i>For NEMA 12, Add</i>	245.00	
				<i>For 600 Amp Tin Plated Copper Vertical, Add</i>	210.00	
				26 24 19 00-0712 EA Corner Section.....	5,450.26	1,322.65
				<i>For 20" Cabinet Depth, Add</i>	108.00	
				<i>For 800 Amp Tin Plated Copper Bus, Add</i>	182.00	
				<i>For 1,200 Amp Tin Plated Copper Bus, Add</i>	334.00	
				<i>For 1,600 Amp Tin Plated Copper Bus, Add</i>	402.00	
				<i>For 2,000 Amp Tin Plated Copper Bus, Add</i>	506.00	
				<i>For NEMA 1 With Gasket, Add</i>	97.00	
				<i>For NEMA 12, Add</i>	245.00	
				<i>For 600 Amp Tin Plated Copper Vertical, Add</i>	210.00	
26 24 19 00-0713				Motor Control Center Starters With HMCP Circuit Breaker <small>(26 24 19 00-0484)</small>		
				<small>Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.</small>		
26 24 19 00-0714				FVNR Starters With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
				26 24 19 00-0715 EA Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker	1,302.23	185.77
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	111.45	
				26 24 19 00-0716 EA Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker	1,449.58	206.04
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.62	
				26 24 19 00-0717 EA Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker	2,526.78	276.96
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	166.19	
				26 24 19 00-0718 EA Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker	3,671.22	365.16
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	219.12	
				26 24 19 00-0719 EA Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker	8,433.20	456.36
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	273.84	
				26 24 19 00-0720 EA Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker	19,828.42	456.36
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	273.84	
				26 24 19 00-0721 EA Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker	1,319.32	160.68
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.40	
				26 24 19 00-0722 EA Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker	1,488.02	180.94
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.56	
				26 24 19 00-0723 EA Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker	2,589.58	247.04
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	148.22	
				26 24 19 00-0724 EA Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker	3,678.76	334.86
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	200.93	
				26 24 19 00-0725 EA Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker	8,453.28	432.33
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	259.41	
				26 24 19 00-0726 EA Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker	19,971.11	432.33
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	259.41	
26 24 19 00-0727				Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
				26 24 19 00-0728 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	2,096.80	232.48
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.45	
				26 24 19 00-0729 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	2,577.19	257.17
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	154.32	
				26 24 19 00-0730 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	4,260.60	345.66
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	207.38	
				26 24 19 00-0731 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	7,353.09	456.94
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	274.16	
				26 24 19 00-0732 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	13,322.46	571.68
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	343.02	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0733	EA		Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	2,135.64	200.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.43	
26 24 19 00-0734	EA		Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	2,638.13	226.30
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.79	
26 24 19 00-0735	EA		Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	4,344.72	309.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	185.58	
26 24 19 00-0736	EA		Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	7,379.18	418.81
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	251.31	
26 24 19 00-0737	EA		Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	13,363.18	540.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	324.56	
26 24 19 00-0738			Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0739	EA		Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,301.31	232.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.45	
26 24 19 00-0740	EA		Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	3,287.51	257.17
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	154.32	
26 24 19 00-0741	EA		Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	6,227.95	345.66
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	207.38	
26 24 19 00-0742	EA		Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	8,483.33	456.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	274.16	
26 24 19 00-0743	EA		Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	17,064.93	571.68
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	343.02	
26 24 19 00-0744	EA		Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,340.15	200.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.43	
26 24 19 00-0745	EA		Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	3,348.45	226.30
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.79	
26 24 19 00-0746	EA		Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	6,312.07	309.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	185.58	
26 24 19 00-0747	EA		Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	8,509.43	418.81
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	251.31	
26 24 19 00-0748	EA		Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	17,105.66	540.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	324.56	
26 24 19 00-0749			Motor Control Center Starters With Fusible Disconnect <small>(26 24 19 00-0484)</small>		
			Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0750			FVNR Starters With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0751	EA		Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect.....	1,045.30	181.14
26 24 19 00-0752	EA		Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect.....	1,360.83	246.17
26 24 19 00-0753	EA		Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect.....	2,284.50	320.78
26 24 19 00-0754	EA		Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect.....	3,867.57	451.82
26 24 19 00-0755	EA		Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect.....	7,828.03	574.37
26 24 19 00-0756	EA		Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect.....	19,994.82	574.37
26 24 19 00-0757	EA		Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect.....	1,070.65	160.58
26 24 19 00-0758	EA		Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect.....	1,398.14	220.50
26 24 19 00-0759	EA		Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect.....	2,356.89	295.68
26 24 19 00-0760	EA		Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect.....	3,887.67	427.79
26 24 19 00-0761	EA		Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect.....	7,834.09	543.40
26 24 19 00-0762	EA		Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect.....	20,123.59	543.40
26 24 19 00-0763			Two Speed 2-Winding (TS2W) With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0764	EA		Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	1,815.50	226.78
26 24 19 00-0765	EA		Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,530.99	307.74
26 24 19 00-0766	EA		Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	3,931.83	400.77
26 24 19 00-0767	EA		Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	8,289.03	566.37
26 24 19 00-0768	EA		Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	13,530.54	662.77
26 24 19 00-0769	EA		Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	1,864.78	200.73
26 24 19 00-0770	EA		Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,589.06	275.42
26 24 19 00-0771	EA		Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,027.15	369.99
26 24 19 00-0772	EA		Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	8,326.12	533.75
26 24 19 00-0773	EA		Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	13,557.24	625.04
26 24 19 00-0774			Two Speed 1-Winding (TS1W) With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0775	EA		Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,123.62	226.78
26 24 19 00-0776	EA		Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,252.22	307.74
26 24 19 00-0777	EA		Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	5,919.64	400.77
26 24 19 00-0778	EA		Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	8,703.49	566.37
26 24 19 00-0779	EA		Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	16,512.25	662.77
26 24 19 00-0780	EA		Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,173.81	200.73
26 24 19 00-0781	EA		Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,310.29	275.42
26 24 19 00-0782	EA		Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,014.95	369.99
26 24 19 00-0783	EA		Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	8,740.59	533.75
26 24 19 00-0784	EA		Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	16,538.96	625.04
26 24 19 00-0785			Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit <small>(26 24 19 00-0484)</small>		
			Note: Per section. Labor is included in basic distribution section.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0786 EA 600 Amp Horizontal Tin Plated Copper Bus Kit.....	231.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.25	
26 24 19 00-0787 EA 800 Amp Horizontal Tin Plated Copper Bus Kit.....	284.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.25	
26 24 19 00-0788 EA 1,200 Amp Horizontal Tin Plated Copper Bus Kit.....	341.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.70	
26 24 19 00-0789 EA 1,600 Amp Horizontal Tin Plated Copper Bus Kit.....	445.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.70	
26 24 19 00-0790 EA 2,000 Amp Horizontal Tin Plated Copper Bus Kit.....	748.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.15	
26 24 19 00-0791 EA 1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit.....	132.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.80	
26 24 19 00-0792 Disconnect Switch For Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0793 3 Pole Circuit Breaker Disconnect For Motor Control Center (26 24 19 00-0792)		
Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0794 EA 150 Amp Rating, 15 To 100 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	661.77	139.45
26 24 19 00-0795 EA 150 Amp Rating, 125 To 150 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,116.20	154.41
26 24 19 00-0796 EA 225 Amp Rating, 70 To 225 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,370.91	207.96
26 24 19 00-0797 EA 400 Amp Rating, 125 To 400 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	2,241.57	274.07
26 24 19 00-0798 EA 600 Amp Rating, 300 To 600 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	3,811.57	342.58
26 24 19 00-0799 EA 800 Amp Rating, 400 To 800 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	4,325.51	342.58
26 24 19 00-0800 EA 1,200 Amp Rating, 600 To 1,200 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	8,781.88	428.95
26 24 19 00-0801 Fusible Disconnect Switch For Motor Control Center (26 24 19 00-0792)		
Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0802 EA 30 Amp Switch Rating, Fusible Disconnect Switch With 30 Amp Fuse Clips.....	721.08	135.58
26 24 19 00-0803 EA 60 Amp Switch Rating, Fusible Disconnect Switch With 60 Amp Fuse Clips.....	846.80	184.81
26 24 19 00-0804 EA 100 Amp Switch Rating, Fusible Disconnect Switch With 100 Amp Fuse Clips.....	1,162.73	236.42
26 24 19 00-0805 EA 200 Amp Switch Rating, Fusible Disconnect Switch With 200 Amp Fuse Clips.....	2,181.30	338.72
26 24 19 00-0806 EA 400 Amp Switch Rating, Fusible Disconnect Switch With 400 Amp Fuse Clips.....	3,897.88	430.79
26 24 19 00-0807 EA 600 Amp Switch Rating, Fusible Disconnect Switch With 600 Amp Fuse Clips.....	9,024.18	430.79
26 24 19 00-0808 EA 800 Amp Switch Rating, Fusible Disconnect Switch With 800 Amp Fuse Clips.....	11,155.13	538.48
26 24 19 00-0809 EA 1,200 Amp Switch Rating, Fusible Disconnect Switch With 1,200 Amp Fuse Clips.....	16,521.39	538.48
26 24 19 00-0810 Control Circuit Transformer (26 24 19 00-0484)		
26 24 19 00-0811 EA Control Circuit Transformer, Size 1 Factory Installed.....	64.94	
26 24 19 00-0812 EA Control Circuit Transformer, Size 2 Factory Installed.....	64.94	
26 24 19 00-0813 EA Control Circuit Transformer, Size 3 Factory Installed.....	125.07	
26 24 19 00-0814 EA Control Circuit Transformer, Size 4 Factory Installed.....	125.07	
26 24 19 00-0815 EA Control Circuit Transformer, Size 5 Factory Installed.....	173.75	
26 24 19 00-0816 EA Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay.....	46.43	10.92
26 24 19 00-0817 Cover Mounted Control Devices (26 24 19 00-0484)		
26 24 19 00-0818 EA Control Device, 2 Unit Push Button Station Cover Mounted.....	105.15	19.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.06	
26 24 19 00-0819 EA Control Device, 2-3 Unit Selector Switch Cover Mounted.....	117.60	19.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08	
26 24 19 00-0820 EA Control Device, Pilot Light Cover Mounted.....	99.87	19.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.04	
26 24 19 00-0821 EA Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light.....	266.52	65.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.55	
26 24 19 00-0822 EA Auxiliary Contact Add Per Starter.....	329.55	25.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.00	
26 24 19 00-0823 Extra Interlocks (26 24 19 00-0484)		
Note: Per contact.		
26 24 19 00-0824 EA Extra Interlocks, Class I, Type A Per Contact.....	68.13	12.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.04	
26 24 19 00-0825 EA Extra Interlocks, Class I, Type B Per Contact.....	95.28	12.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.04	
26 24 19 00-0826 EA Extra Interlocks, Class I, Type C Per Contact.....	106.57	12.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.54	
26 24 19 00-0827 EA Extra Interlocks, Class II, Type B Per Contact.....	96.12	12.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.03	
26 24 19 00-0828 EA Extra Interlocks, Class II, Type C Per Contact.....	102.04	12.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 24 19 00-0829 Special Cabinet Provisions (26 24 19 00-0484)		
26 24 19 00-0830 EA Provisions For Bus Duct Entrance Special Cabinet Provisions.....	812.93	
26 24 19 00-0831 Nameplate Requirements (26 24 19 00-0484)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0832	EA		Special Cabinet Nameplate Requirements	28.86	
26 24 19 00-0833			Auxiliary Relays (26 24 19 00-0484)		
26 24 19 00-0834	EA		Industrial Control Relay, 10 Amp Class A600 With 2 Contacts.....	155.21	24.16
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.50	
26 24 19 00-0835	EA		Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay.....	146.53	21.74
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.50	
26 24 19 00-0836	EA		General Purpose Control Relay, 240 Volt AC, 10 Amp, With Base.....	81.72	21.74
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.50	
26 24 19 00-0837			Motor Control Center Accessories (26 24 19 00-0484)		
26 24 19 00-0838			Lighting Transformer With Circuit Breaker (26 24 19 00-0837)		
			Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.		
26 24 19 00-0839	EA		1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	4,661.79	309.09
26 24 19 00-0840	EA		1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	4,846.86	321.45
26 24 19 00-0841	EA		1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,303.84	346.17
26 24 19 00-0842	EA		1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	6,676.67	370.91
26 24 19 00-0843	EA		1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	8,992.07	395.63
26 24 19 00-0844	EA		1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	11,051.81	445.09
26 24 19 00-0845	EA		1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	14,534.60	494.53
26 24 19 00-0846	EA		3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	8,472.30	407.99
26 24 19 00-0847	EA		3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,204.45	445.09
26 24 19 00-0848	EA		3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,529.40	494.53
26 24 19 00-0849	EA		3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	11,167.79	543.99
26 24 19 00-0850	EA		3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	13,483.09	593.44
26 24 19 00-0851	EA		3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	13,907.69	642.90
26 24 19 00-0852			Bolt-On Lighting Panel (26 24 19 00-0837)		
			Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.		
26 24 19 00-0853	EA		18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	1,886.27	502.20
26 24 19 00-0854	EA		30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	2,920.72	874.11
26 24 19 00-0855	EA		42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	3,876.79	1,182.63
26 24 19 00-0856	EA		18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	1,968.61	543.40
26 24 19 00-0857	EA		30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	2,883.52	855.48
26 24 19 00-0858	EA		42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	4,024.61	1,256.55
26 24 19 00-0859	EA		18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	3,242.68	582.48
26 24 19 00-0860	EA		30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	4,281.99	935.10
26 24 19 00-0861	EA		42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	5,330.73	1,256.55
26 24 19 00-0862	EA		18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	3,334.30	628.23
26 24 19 00-0863	EA		30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	4,281.99	935.10
26 24 19 00-0864	EA		42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	5,411.81	1,297.08
26 24 19 00-0865			Factory Installed Bolt-On Branch Circuit Breaker (26 24 19 00-0837)		
			Note: For MCC lighting panel only.		
26 24 19 00-0866	EA		15 A / 1 Pole - 30 A / 1 Pole Bolt-On Branch Circuit Breaker.....	15.36	
26 24 19 00-0867	EA		15 A / 1 Pole - 30 A / 1 Pole (GFI) Bolt-On Branch Circuit Breaker	250.53	
26 24 19 00-0868	EA		15 A / 2 Pole - 50 A / 2 Pole Bolt-On Branch Circuit Breaker.....	30.01	
26 24 19 00-0869	EA		60 A / 2 Pole - 100 A / 2 Pole Bolt-On Branch Circuit Breaker.....	69.10	
26 24 19 00-0870	EA		15 A / 3 Pole - 50 A / 3 Pole Bolt-On Branch Circuit Breaker.....	80.97	
26 24 19 00-0871	EA		60 A / 3 Pole - 100 A / 3 Pole Bolt-On Branch Circuit Breaker.....	122.85	
26 24 19 00-0872			Blank Unit Door (BUD) (26 24 19 00-0837)		
			Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.		
26 24 19 00-0873	EA		6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	66.81	
26 24 19 00-0874	EA		12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	80.17	
26 24 19 00-0875	EA		18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	120.26	
26 24 19 00-0876	EA		24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	160.34	
26 24 19 00-0877	EA		30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	240.51	
26 24 19 00-0878	EA		48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	280.60	
26 24 19 00-0879	EA		72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	320.68	
26 25 Enclosed Bus Assemblies (26 20)					
26 25 00 00-0001			Bus Ducts (26 25)		
26 25 00 00-0002			Plug-In Bus Duct (26 25 00 00-0001)		
			Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 00 00-0003			600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 00 00-0002)		
26 25 00 00-0004	LF		225 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	273.31	28.95
			<i>For Up To 25, Add</i>	68.33	
			<i>For >25 To 50, Add</i>	41.00	
			<i>For >50 To 100, Add</i>	20.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 00 00-0005 LF 400 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	389.86	28.95
<i>For Up To 25, Add</i>	97.47	
<i>For >25 To 50, Add</i>	58.48	
<i>For >50 To 100, Add</i>	29.24	
26 25 00 00-0006 LF 600 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	495.13	38.60
<i>For Up To 25, Add</i>	123.78	
<i>For >25 To 50, Add</i>	74.27	
<i>For >50 To 100, Add</i>	37.13	
26 25 00 00-0007 LF 800 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	687.10	38.60
<i>For Up To 25, Add</i>	171.78	
<i>For >25 To 50, Add</i>	103.07	
<i>For >50 To 100, Add</i>	51.53	
26 25 00 00-0008 LF 1,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	724.63	48.25
<i>For Up To 25, Add</i>	181.16	
<i>For >25 To 50, Add</i>	108.69	
<i>For >50 To 100, Add</i>	54.35	
26 25 00 00-0009 LF 1,350 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,013.59	48.25
<i>For Up To 25, Add</i>	253.40	
<i>For >25 To 50, Add</i>	152.04	
<i>For >50 To 100, Add</i>	76.02	
26 25 00 00-0010 LF 1,600 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,188.22	50.67
<i>For Up To 25, Add</i>	297.06	
<i>For >25 To 50, Add</i>	178.23	
<i>For >50 To 100, Add</i>	89.12	
26 25 00 00-0011 LF 2,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,449.74	52.11
<i>For Up To 25, Add</i>	362.44	
<i>For >25 To 50, Add</i>	217.46	
<i>For >50 To 100, Add</i>	108.73	
26 25 00 00-0012 LF 2,500 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,792.08	55.01
<i>For Up To 25, Add</i>	448.02	
<i>For >25 To 50, Add</i>	268.81	
<i>For >50 To 100, Add</i>	134.41	
26 25 00 00-0013 LF 3,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	2,069.04	64.17
<i>For Up To 25, Add</i>	517.26	
<i>For >25 To 50, Add</i>	310.36	
<i>For >50 To 100, Add</i>	155.18	
26 25 00 00-0014 LF 4,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	2,395.75	69.96
<i>For Up To 25, Add</i>	598.94	
<i>For >25 To 50, Add</i>	359.36	
<i>For >50 To 100, Add</i>	179.68	
26 25 00 00-0015 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors <small>(26 25 00 00-0002)</small>		
26 25 00 00-0016 LF 225 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	454.01	28.95
<i>For Up To 25, Add</i>	113.50	
<i>For >25 To 50, Add</i>	68.10	
<i>For >50 To 100, Add</i>	34.05	
26 25 00 00-0017 LF 400 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	658.13	28.95
<i>For Up To 25, Add</i>	164.53	
<i>For >25 To 50, Add</i>	98.72	
<i>For >50 To 100, Add</i>	49.36	
26 25 00 00-0018 LF 600 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	744.15	38.60
<i>For Up To 25, Add</i>	186.04	
<i>For >25 To 50, Add</i>	111.62	
<i>For >50 To 100, Add</i>	55.81	
26 25 00 00-0019 LF 800 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	948.00	38.60
<i>For Up To 25, Add</i>	237.00	
<i>For >25 To 50, Add</i>	142.20	
<i>For >50 To 100, Add</i>	71.10	
26 25 00 00-0020 LF 1,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,158.06	48.25
<i>For Up To 25, Add</i>	289.52	
<i>For >25 To 50, Add</i>	173.71	
<i>For >50 To 100, Add</i>	86.85	
26 25 00 00-0021 LF 1,350 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,503.72	48.25
<i>For Up To 25, Add</i>	375.93	
<i>For >25 To 50, Add</i>	225.56	
<i>For >50 To 100, Add</i>	112.78	
26 25 00 00-0022 LF 1,600 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,946.41	49.99
<i>For Up To 25, Add</i>	486.60	
<i>For >25 To 50, Add</i>	291.96	
<i>For >50 To 100, Add</i>	145.98	
26 25 00 00-0023 LF 2,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	2,346.71	52.11
<i>For Up To 25, Add</i>	586.68	
<i>For >25 To 50, Add</i>	352.01	
<i>For >50 To 100, Add</i>	176.00	
26 25 00 00-0024 LF 2,500 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	2,913.39	54.52
<i>For Up To 25, Add</i>	728.35	
<i>For >25 To 50, Add</i>	437.01	
<i>For >50 To 100, Add</i>	218.50	
26 25 00 00-0025 LF 3,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	3,362.90	64.17
<i>For Up To 25, Add</i>	840.73	
<i>For >25 To 50, Add</i>	504.44	
<i>For >50 To 100, Add</i>	252.22	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 25 Enclosed Bus Assemblies



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 00 00-0026	LF		4,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors..... <i>For Up To 25, Add</i> <i>For >25 To 50, Add</i> <i>For >50 To 100, Add</i>	3,899.62 974.91 584.94 292.47	69.96
26 25 00 00-0027			Cable Tap Boxes (26 25 00 00-0027)		
26 25 00 00-0028			600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 00 00-0027)		
26 25 00 00-0029	EA		225 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,285.91	135.10
26 25 00 00-0030	EA		400 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,353.45	135.10
26 25 00 00-0031	EA		600 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,538.68	183.35
26 25 00 00-0032	EA		800 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,695.44	183.35
26 25 00 00-0033	EA		1,000 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,886.27	241.25
26 25 00 00-0034	EA		1,350 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	3,160.55	241.25
26 25 00 00-0035			277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 00 00-0027)		
26 25 00 00-0036	EA		225 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,353.45	265.38
26 25 00 00-0037	EA		400 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,549.75	265.38
26 25 00 00-0038	EA		600 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,716.60	361.89
26 25 00 00-0039	EA		800 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,051.28	361.89
26 25 00 00-0040	EA		1,000 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,201.29	482.51
26 25 00 00-0041	EA		1,350 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,644.80	482.51
26 25 00 00-0042			Bus Duct Plug-In Circuit Breaker (26 25 00 00-0002)		
26 25 00 00-0043			240 Volt, 3-Phase (26 25 00 00-0042)		
26 25 00 00-0044	EA		60 Amp Bus Duct Circuit Breaker 240 Volt, 3 Phase Plug-in Circuit Breaker	1,016.87	96.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.79	
26 25 00 00-0045	EA		100 Amp Bus Duct Circuit Breaker 240 Volt, 3 Phase Plug-in Circuit Breaker	2,048.81	96.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.77	
26 25 00 00-0046			600 Volt, 3-Phase (26 25 00 00-0042)		
26 25 00 00-0047	EA		60 Amp Bus Duct Circuit Breaker 600 Volt, 3 Phase Plug-in Circuit Breaker	1,998.89	96.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.79	
26 25 00 00-0048	EA		100 Amp Bus Duct Circuit Breaker 600 Volt, 3 Phase Plug-in Circuit Breaker	2,589.45	96.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.77	
26 25 00 00-0049			120/208 Volt, 3-Phase, 4-Wire (26 25 00 00-0042)		
26 25 00 00-0050	EA		60 Amp Bus Duct Circuit Breaker 120/208 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	1,171.31	115.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.32	
26 25 00 00-0051	EA		100 Amp Bus Duct Circuit Breaker 120/208 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	1,396.98	115.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.39	
26 25 00 00-0052			277/480 Volt, 3-Phase, 4-Wire (26 25 00 00-0042)		
26 25 00 00-0053	EA		60 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	1,346.73	115.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.32	
26 25 00 00-0054	EA		100 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	2,083.86	115.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.39	
26 25 00 00-0055	EA		225 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	3,000.33	400.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	173.57	
26 25 00 00-0056	EA		400 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	7,186.79	400.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	376.96	
26 25 00 00-0057	EA		600 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	7,957.91	1,158.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	524.47	
26 25 00 00-0058	EA		800 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	9,768.42	1,158.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	927.90	
26 25 00 00-0059			Bus Duct Plug-In Fusible Switch (26 25 00 00-0002)		
26 25 00 00-0060			240 Volt, 3-Pole, 3-Fuse (26 25 00 00-0059)		
26 25 00 00-0061	EA		30 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	1,014.45	96.51
26 25 00 00-0062	EA		60 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	1,110.07	96.51
26 25 00 00-0063	EA		100 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	1,539.85	115.80
26 25 00 00-0064	EA		200 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	2,593.86	231.61
26 25 00 00-0065	EA		400 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	6,589.20	521.11
26 25 00 00-0066	EA		600 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	9,786.08	907.11
26 25 00 00-0067			600 Volt, 3-Pole, 3-Fuse (26 25 00 00-0059)		
26 25 00 00-0068	EA		30 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	1,059.83	106.15
26 25 00 00-0069	EA		60 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	1,152.76	106.15
26 25 00 00-0070	EA		100 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	1,556.57	106.15
26 25 00 00-0071	EA		200 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	2,664.70	221.96
26 25 00 00-0072	EA		400 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	6,563.42	501.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 00 00-0073 EA 600 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	9,968.85	965.01
26 25 00 00-0074 EA 800 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	16,496.86	1,254.52
26 25 00 00-0075 120/208 Volt, 4-pole, 3 Fuse (26 25 00 00-0059)		
26 25 00 00-0076 EA 30 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,175.81	125.45
26 25 00 00-0077 EA 60 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,256.53	125.45
26 25 00 00-0078 EA 100 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,699.68	125.45
26 25 00 00-0079 EA 200 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	2,883.17	260.55
26 25 00 00-0080 EA 400 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	7,219.13	579.01
26 25 00 00-0081 EA 600 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	10,491.74	887.82
26 25 00 00-0082 277/480 Volt, 4-pole, 3-Fuse (26 25 00 00-0059)		
26 25 00 00-0083 EA 30 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,216.15	125.45
26 25 00 00-0084 EA 60 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,296.87	106.44
26 25 00 00-0085 EA 100 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,817.11	144.75
26 25 00 00-0086 EA 200 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	3,008.35	260.55
26 25 00 00-0087 EA 400 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	7,219.13	579.01
26 25 00 00-0088 EA 600 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	10,491.74	887.82
26 25 00 00-0089 EA 800 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	16,720.32	1,177.32
26 25 00 00-0090 Feeder Bus Duct (26 25 00 00-0001)		
Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 00 00-0091 600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance (26 25 00 00-0090)		
Note: Copper conductors.		
26 25 00 00-0092 LF 800 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	830.91	40.53
For Up To 25, Add	207.73	
For >25 To 50, Add	124.64	
For >50 To 100, Add	62.32	
26 25 00 00-0093 LF 1,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	841.21	40.53
For Up To 25, Add	210.30	
For >25 To 50, Add	126.18	
For >50 To 100, Add	63.09	
26 25 00 00-0094 LF 1,350 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	1,104.30	40.53
For Up To 25, Add	276.08	
For >25 To 50, Add	165.65	
For >50 To 100, Add	82.82	
26 25 00 00-0095 LF 1,600 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	1,328.41	40.53
For Up To 25, Add	332.10	
For >25 To 50, Add	199.26	
For >50 To 100, Add	99.63	
26 25 00 00-0096 LF 2,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	1,625.10	40.53
For Up To 25, Add	406.28	
For >25 To 50, Add	243.77	
For >50 To 100, Add	121.88	
26 25 00 00-0097 LF 3,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	2,216.81	96.51
For Up To 25, Add	554.20	
For >25 To 50, Add	332.52	
For >50 To 100, Add	166.26	
26 25 00 00-0098 LF 4,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	3,068.55	96.51
For Up To 25, Add	767.14	
For >25 To 50, Add	460.28	
For >50 To 100, Add	230.14	
26 25 00 00-0099 LF 5,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	3,630.29	96.51
For Up To 25, Add	907.57	
For >25 To 50, Add	544.54	
For >50 To 100, Add	272.27	
26 25 00 00-0100 LF 6,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	4,474.92	96.51
For Up To 25, Add	1,118.73	
For >25 To 50, Add	671.24	
For >50 To 100, Add	335.62	
26 25 00 00-0101 277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated (26 25 00 00-0090)		
Note: Low impedance, copper conductors.		
26 25 00 00-0102 LF 800 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports.....	954.74	43.42
For Up To 25, Add	238.69	
For >25 To 50, Add	143.21	
For >50 To 100, Add	71.61	
26 25 00 00-0103 LF 1,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports.....	968.00	43.42
For Up To 25, Add	242.00	
For >25 To 50, Add	145.20	
For >50 To 100, Add	72.60	
26 25 00 00-0104 LF 1,350 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports.....	1,248.64	43.42
For Up To 25, Add	312.16	
For >25 To 50, Add	187.30	
For >50 To 100, Add	93.65	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 00 00-0105	LF		1,600 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	1,480.44	43.42
			<i>For Up To 25, Add</i>	370.11	
			<i>For >25 To 50, Add</i>	222.07	
			<i>For >50 To 100, Add</i>	111.03	
26 25 00 00-0106	LF		2,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	1,789.50	43.42
			<i>For Up To 25, Add</i>	447.38	
			<i>For >25 To 50, Add</i>	268.43	
			<i>For >50 To 100, Add</i>	134.21	
26 25 00 00-0107	LF		3,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	2,753.68	74.30
			<i>For Up To 25, Add</i>	688.42	
			<i>For >25 To 50, Add</i>	413.05	
			<i>For >50 To 100, Add</i>	206.53	
26 25 00 00-0108	LF		4,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	3,454.31	74.30
			<i>For Up To 25, Add</i>	863.58	
			<i>For >25 To 50, Add</i>	518.15	
			<i>For >50 To 100, Add</i>	259.07	
26 25 00 00-0109	LF		5,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	4,086.52	138.00
			<i>For Up To 25, Add</i>	1,021.63	
			<i>For >25 To 50, Add</i>	612.98	
			<i>For >50 To 100, Add</i>	306.49	
26 25 00 00-0110	LF		6,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	5,044.41	138.00
			<i>For Up To 25, Add</i>	1,261.10	
			<i>For >25 To 50, Add</i>	756.66	
			<i>For >50 To 100, Add</i>	378.33	

26 27 Low-Voltage Distribution Equipment (26 20)**26 27 13 Electricity Metering (26 27)****26 27 13 00-0001 Revenue Metering (26 27 13)****26 27 13 00-0002 Meter Socket Base (26 27 13 00-0001)**

Note: NEMA 3R.

26 27 13 00-0003	EA		100 Amp, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	265.97	62.73
26 27 13 00-0004	EA		100 Amp, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	284.57	62.73
26 27 13 00-0005	EA		200 Amp, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	359.05	77.20
26 27 13 00-0006	EA		200 Amp, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	364.34	77.20
26 27 13 00-0007	EA		200 Amp, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release.....	754.70	86.85
26 27 13 00-0008	EA		320 Amp, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass, And Jaw Release.....	1,018.95	96.51
26 27 13 00-0009	EA		400 Amp, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass, And Jaw Release.....	2,624.47	106.15
26 27 13 00-0010	EA		Combination Motor And Current Transformer Cabinet, 15-30 A, 13 Terminal, Underground, With Test Switch And Transformer - Socket Base.....	2,722.58	482.51

26 27 13 00-0011 Meter Device (26 27 13 00-0001)

Note: Direct read, with 15 minute demand.

26 27 13 00-0012	EA		100 To 200 Amp, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter.....	290.00	19.30
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.87	
26 27 13 00-0013	EA		200 Amp, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter.....	845.58	19.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.08	

26 27 13 00-0014 Current Transformer Enclosure (26 27 13 00-0001)

26 27 13 00-0015	EA		Current Transformer Cover, Screwed, 18" x 24" x 9", NEMA 3R.....	535.74	125.45
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26 27 13 00-0016 120/240 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)**26 27 13 00-0017 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max., 2 Pole (26 27 13 00-0016)**

26 27 13 00-0018	EA		3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	1,144.01	60.32
26 27 13 00-0019	EA		4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	1,511.26	72.38
26 27 13 00-0020	EA		5 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	1,876.50	84.44
26 27 13 00-0021	EA		6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	2,175.54	96.51
26 27 13 00-0022	EA		7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	2,845.80	108.57
26 27 13 00-0023	EA		8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	3,070.58	120.63
26 27 13 00-0024	EA		10 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	3,580.38	144.75

26 27 13 00-0025 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max., 2 Pole (26 27 13 00-0016)

26 27 13 00-0026	EA		3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max	2,147.32	60.32
26 27 13 00-0027	EA		4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max	2,833.63	72.38
26 27 13 00-0028	EA		6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max	3,905.27	96.51
26 27 13 00-0029	EA		7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max	4,330.70	108.57
26 27 13 00-0030	EA		8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max	5,458.46	120.63

26 27 13 00-0031 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0016)

26 27 13 00-0032	EA		3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	1,758.11	84.44
26 27 13 00-0033	EA		4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,320.02	96.51
26 27 13 00-0034	EA		5 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,845.80	108.57
26 27 13 00-0035	EA		6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	3,351.51	120.63
26 27 13 00-0036	EA		7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	4,238.49	132.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0037 EA 8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	4,443.22	144.75
26 27 13 00-0038 EA 10 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	5,514.83	168.87
26 27 13 00-0039 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0016)		
26 27 13 00-0040 EA 3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,757.41	84.44
26 27 13 00-0041 EA 4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	3,624.32	96.51
26 27 13 00-0042 EA 6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	5,117.34	120.63
26 27 13 00-0043 EA 7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	5,482.59	132.69
26 27 13 00-0044 EA 8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	7,031.73	144.75
26 27 13 00-0045 120/208 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)		
26 27 13 00-0046 800 Amp Bus, 5 Jaw Sockets, 125 A Max., 2 Pole (26 27 13 00-0045)		
26 27 13 00-0047 EA 3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	1,240.36	72.38
26 27 13 00-0048 EA 4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	1,629.69	84.44
26 27 13 00-0049 EA 5 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	2,017.02	96.51
26 27 13 00-0050 EA 6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	2,344.15	108.57
26 27 13 00-0051 EA 7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	2,889.99	120.63
26 27 13 00-0052 EA 8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	3,114.78	132.69
26 27 13 00-0053 EA 10 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	3,845.29	156.81
26 27 13 00-0054 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC, 2 Pole (26 27 13 00-0045)		
26 27 13 00-0055 EA 3 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,251.71	72.38
26 27 13 00-0056 EA 4 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,978.15	84.44
26 27 13 00-0057 EA 6 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	4,310.63	108.57
26 27 13 00-0058 EA 7 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	4,736.08	120.63
26 27 13 00-0059 EA 8 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	5,743.48	132.69
26 27 13 00-0060 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0045)		
26 27 13 00-0061 EA 3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	1,854.50	96.51
26 27 13 00-0062 EA 4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,424.43	108.57
26 27 13 00-0063 EA 5 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	3,010.41	120.63
26 27 13 00-0064 EA 6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	3,516.13	132.69
26 27 13 00-0065 EA 7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	4,443.25	144.75
26 27 13 00-0066 EA 8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	4,647.94	156.81
26 27 13 00-0067 EA 10 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	5,799.86	180.94
26 27 13 00-0068 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0045)		
26 27 13 00-0069 EA 3 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,881.89	96.51
26 27 13 00-0070 EA 4 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	3,809.00	108.57
26 27 13 00-0071 EA 6 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	5,482.62	132.69
26 27 13 00-0072 EA 7 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	5,727.46	144.75
26 27 13 00-0073 EA 8 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	7,296.68	156.81
26 27 13 00-0074 120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)		
26 27 13 00-0075 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0076 EA 3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC	1,144.01	60.32
26 27 13 00-0077 EA 4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC	1,511.26	72.38
26 27 13 00-0078 EA 6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC	2,175.54	96.51
26 27 13 00-0079 EA 7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC	2,845.80	108.57
26 27 13 00-0080 EA 8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC	3,532.11	120.63
26 27 13 00-0081 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0082 EA 3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC	2,147.32	60.32
26 27 13 00-0083 EA 4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC	2,833.62	72.38
26 27 13 00-0084 EA 6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC	4,105.91	96.51
26 27 13 00-0085 EA 7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC	4,531.36	108.57
26 27 13 00-0086 EA 8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC	5,458.46	120.63
26 27 13 00-0087 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0088 EA 3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	1,758.11	84.44
26 27 13 00-0089 EA 4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,320.02	96.51
26 27 13 00-0090 EA 6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	3,351.51	120.63
26 27 13 00-0091 EA 7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	4,238.49	132.69
26 27 13 00-0092 EA 8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	4,443.22	144.75
26 27 13 00-0093 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0094 EA 3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,757.42	84.44
26 27 13 00-0095 EA 4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	3,624.32	96.51
26 27 13 00-0096 EA 6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	5,117.34	120.63

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0097 EA 7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	5,482.59	132.69
26 27 13 00-0098 EA 8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	7,031.76	144.75
26 27 13 00-0099 120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)		
26 27 13 00-0100 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0101 EA 3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC	1,240.36	72.38
26 27 13 00-0102 EA 4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC	1,629.69	84.44
26 27 13 00-0103 EA 6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,344.15	108.57
26 27 13 00-0104 EA 7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC	3,090.65	120.63
26 27 13 00-0105 EA 8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC	3,516.10	132.69
26 27 13 00-0106 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0107 EA 3 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,251.70	72.38
26 27 13 00-0108 EA 4 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,978.14	84.44
26 27 13 00-0109 EA 6 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	4,109.97	108.57
26 27 13 00-0110 EA 7 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	4,535.42	120.63
26 27 13 00-0111 EA 8 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	5,743.45	132.69
26 27 13 00-0112 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0113 EA 3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	1,854.48	96.51
26 27 13 00-0114 EA 4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,424.41	108.57
26 27 13 00-0115 EA 6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	3,516.10	132.69
26 27 13 00-0116 EA 7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	4,443.22	144.75
26 27 13 00-0117 EA 8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	4,647.94	156.81
26 27 13 00-0118 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0119 EA 3 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,881.87	96.51
26 27 13 00-0120 EA 4 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	3,808.98	108.57
26 27 13 00-0121 EA 6 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	5,482.59	132.69
26 27 13 00-0122 EA 7 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	5,727.46	144.75
26 27 13 00-0123 EA 8 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	7,296.68	156.81
26 27 13 00-0124 Watt/Hour Meters (26 27 13)		
26 27 13 00-0125 EA Single Phase M-90 Meter, Socket, NEMA 3R Enclosure	1,191.88	57.90
26 27 13 00-0126 EA Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure	3,707.06	115.80
26 27 13 00-0127 EA Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure	1,933.22	86.85
26 27 13 00-0128 EA Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure	2,391.50	86.85
26 27 13 00-0129 EA Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure	2,000.54	86.85
26 27 13 00-0130 EA C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,369.63	80.09
26 27 13 00-0131 EA P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	2,334.90	144.75
26 27 13 00-0132 Watt/Hour Meter Systems (26 27 13)		
Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.		
26 27 13 00-0133 Watt/Hour Meter System Without Main Breaker (26 27 13 00-0132)		
26 27 13 00-0134 EA 400 Amp System; 200 Amp M-90 Meter And Enclosure	5,810.19	579.10
26 27 13 00-0135 EA 600-800 Amp System; 200 Amp M-90 Meter And Enclosure	6,891.71	579.10
26 27 13 00-0136 Watt/Hour Meter System With Main Breaker (26 27 13 00-0132)		
26 27 13 00-0137 EA 400 Amp System; 400 Amp Main Breaker, 200 Amp M-90 Meter And Enclosure	10,558.63	579.10
26 27 13 00-0138 EA 600 Amp System; 600 Amp Main Breaker, 200 Amp M-90 Meter And Enclosure	12,916.96	579.10
26 27 13 00-0139 EA 800 Amp System; 800 Amp Main Breaker, 200 Amp M-90 Meter And Enclosure	13,917.11	579.10
26 27 16 Electrical Cabinets And Enclosures (26 27)		
Note: Can be used as enclosure or pull/junction boxes.		
26 27 16 00-0001 NEMA 1 Enclosures, Lockable (26 27 16)		
26 27 16 00-0002 Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)		
26 27 16 00-0003 4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)		
26 27 16 00-0004 EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	58.95	19.30
26 27 16 00-0005 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	65.93	21.23
26 27 16 00-0006 EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	72.98	23.16
26 27 16 00-0007 EA 8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	85.19	27.02
26 27 16 00-0008 EA 10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	92.60	28.95
26 27 16 00-0009 EA 10" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	100.48	30.88
26 27 16 00-0010 EA 12" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	100.23	30.88
26 27 16 00-0011 EA 12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	108.28	32.81
26 27 16 00-0012 EA 12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	116.70	34.74
26 27 16 00-0013 EA 16" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	151.87	46.32



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0014	EA		16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	184.14	55.97
26 27 16 00-0015	EA		18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	175.29	54.04
26 27 16 00-0016			6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)		
26 27 16 00-0017	EA		6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	73.46	23.16
26 27 16 00-0018	EA		8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	88.73	27.02
26 27 16 00-0019	EA		10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	106.15	32.81
26 27 16 00-0020	EA		10" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	114.39	34.74
26 27 16 00-0021	EA		12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	122.78	36.67
26 27 16 00-0022	EA		12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	131.52	38.60
26 27 16 00-0023	EA		16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	167.48	50.18
26 27 16 00-0024	EA		16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	203.45	61.76
26 27 16 00-0025	EA		18" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	196.30	59.84
26 27 16 00-0026	EA		18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	255.34	77.20
26 27 16 00-0027	EA		24" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	323.45	88.78
26 27 16 00-0028	EA		24" x 24" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	367.52	96.51
26 27 16 00-0029	EA		30" x 24" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	407.01	102.30
26 27 16 00-0030	EA		36" x 24" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	441.66	106.15
26 27 16 00-0031			Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)		
26 27 16 00-0032			3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)		
26 27 16 00-0033	EA		4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	40.75	13.51
26 27 16 00-0034	EA		6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	58.24	19.30
26 27 16 00-0035	EA		8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	64.84	21.23
26 27 16 00-0036			4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)		
26 27 16 00-0037	EA		4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	45.70	15.44
26 27 16 00-0038	EA		6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	56.73	19.30
26 27 16 00-0039	EA		6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	63.22	21.23
26 27 16 00-0040	EA		8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	69.83	23.16
26 27 16 00-0041	EA		8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	81.47	27.02
26 27 16 00-0042	EA		10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	88.35	28.95
26 27 16 00-0043	EA		10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	95.52	30.88
26 27 16 00-0044	EA		12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	95.29	30.88
26 27 16 00-0045	EA		12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	102.75	32.81
26 27 16 00-0046	EA		12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	110.39	34.74
26 27 16 00-0047	EA		16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	144.77	46.32
26 27 16 00-0048	EA		16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	179.61	57.90
26 27 16 00-0049	EA		18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	166.79	54.04
26 27 16 00-0050	EA		18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	215.83	69.48
26 27 16 00-0051	EA		24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	305.95	86.85
26 27 16 00-0052			6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)		
26 27 16 00-0053	EA		6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	70.16	23.16
26 27 16 00-0054	EA		8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	77.21	25.09
26 27 16 00-0055	EA		8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	89.01	28.95
26 27 16 00-0056	EA		10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	101.02	32.81
26 27 16 00-0057	EA		10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	108.57	34.74
26 27 16 00-0058	EA		12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	116.20	36.67
26 27 16 00-0059	EA		12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	124.11	38.60
26 27 16 00-0060	EA		16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	159.21	50.18
26 27 16 00-0061	EA		16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	195.67	61.76
26 27 16 00-0062	EA		18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	186.44	59.84
26 27 16 00-0063	EA		18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	242.16	77.20
26 27 16 00-0064	EA		24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	299.24	88.78
26 27 16 00-0065	EA		24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	340.73	96.51
26 27 16 00-0066	EA		30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	367.09	102.30
26 27 16 00-0067	EA		36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	399.12	106.15
26 27 16 00-0068			8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)		
26 27 16 00-0069	EA		8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	101.02	32.81
26 27 16 00-0070	EA		12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	136.85	42.46
26 27 16 00-0071	EA		16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	173.99	54.04
26 27 16 00-0072	EA		16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	216.15	67.55
26 27 16 00-0073	EA		18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	207.04	65.63
26 27 16 00-0074	EA		18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	256.38	81.07
26 27 16 00-0075	EA		24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	286.87	92.64
26 27 16 00-0076	EA		24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	328.94	98.43
26 27 16 00-0077	EA		24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	375.62	106.15
26 27 16 00-0078	EA		30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	399.25	111.95
26 27 16 00-0079	EA		30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	418.70	115.80
26 27 16 00-0080	EA		36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	428.49	115.80



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 27 16 00-0081		10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0031)</small>		
26 27 16 00-0082	EA	18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	234.49	73.34
26 27 16 00-0083	EA	18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	307.78	94.57
26 27 16 00-0084	EA	24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	313.50	100.36
26 27 16 00-0085	EA	24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	397.41	108.08
26 27 16 00-0086	EA	24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	455.37	119.66
26 27 16 00-0087	EA	30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	501.45	123.52
26 27 16 00-0088	EA	36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	533.90	129.31
26 27 16 00-0089		12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0031)</small>		
26 27 16 00-0090	EA	18" x 18" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure	339.72	104.22
26 27 16 00-0091	EA	24" x 12" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure	340.97	110.01
26 27 16 00-0092	EA	24" x 18" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure	437.30	119.66
26 27 16 00-0093	EA	24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure	497.33	131.24
26 27 16 00-0094	EA	30" x 24" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure	553.76	137.03
26 27 16 00-0095	EA	36" x 24" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure	583.35	142.82
26 27 16 00-0096		NEMA 1 Enclosures For Up To 6 Boards, Lockable <small>(26 27 16)</small>		
26 27 16 00-0097		4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures <small>(26 27 16 00-0096)</small>		
26 27 16 00-0098	EA	24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12)	737.31	84.92
26 27 16 00-0099		NEMA 12 Enclosures, Lockable <small>(26 27 16)</small>		
		Note: Dust-tight enclosures.		
26 27 16 00-0100		Hinged Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0099)</small>		
26 27 16 00-0101		4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>		
26 27 16 00-0102	EA	4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	79.04	15.44
26 27 16 00-0103	EA	6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	103.37	21.23
26 27 16 00-0104	EA	8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	128.19	27.02
26 27 16 00-0105	EA	10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	138.67	28.95
26 27 16 00-0106	EA	12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	155.02	30.88
26 27 16 00-0107	EA	12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	166.81	32.81
26 27 16 00-0108		6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>		
26 27 16 00-0109	EA	6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	114.61	23.16
26 27 16 00-0110	EA	8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	126.11	25.09
26 27 16 00-0111		Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0099)</small>		
26 27 16 00-0112		4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0111)</small>		
26 27 16 00-0113	EA	4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	158.81	15.44
26 27 16 00-0114	EA	6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	191.21	21.23
26 27 16 00-0115	EA	8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	216.01	23.16
26 27 16 00-0116	EA	8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	247.27	27.02
26 27 16 00-0117	EA	10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	254.64	28.95
26 27 16 00-0118	EA	10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	299.85	30.88
26 27 16 00-0119	EA	12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	321.87	32.81
26 27 16 00-0120	EA	12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	365.58	34.74
26 27 16 00-0121		6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0111)</small>		
26 27 16 00-0122	EA	6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	232.09	23.16
26 27 16 00-0123	EA	8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	262.10	25.09
26 27 16 00-0124	EA	8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	286.11	28.95
26 27 16 00-0125	EA	10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	338.52	34.74
26 27 16 00-0126	EA	12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	367.87	38.60
26 27 16 00-0127	EA	16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	509.94	50.18
26 27 16 00-0128	EA	18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	790.07	77.20
26 27 16 00-0129	EA	24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,031.66	88.78
26 27 16 00-0130	EA	24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,162.19	96.51
26 27 16 00-0131		8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0111)</small>		
26 27 16 00-0132	EA	24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,077.27	98.43
26 27 16 00-0133	EA	24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,239.57	106.15
26 27 16 00-0134	EA	30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,361.33	111.95
26 27 16 00-0135	EA	30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,498.92	115.80
26 27 16 00-0136	EA	36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,478.70	115.80
26 27 16 00-0137		Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0099)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0138 8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0137)</small>		
26 27 16 00-0139 EA 60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	4,661.60	156.81
26 27 16 00-0140 10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0137)</small>		
26 27 16 00-0141 EA 60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	4,709.99	173.70
26 27 16 00-0142 EA 60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	5,399.99	185.77
26 27 16 00-0143 EA 72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	6,215.99	231.61
26 27 16 00-0144 EA 72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	6,943.93	273.09
26 27 16 00-0145 12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0137)</small>		
26 27 16 00-0146 EA 60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	5,042.37	273.09
26 27 16 00-0147 EA 60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	5,617.90	289.51
26 27 16 00-0148 EA 72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	6,376.65	308.80
26 27 16 00-0149 EA 72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	7,029.96	308.80
26 27 16 00-0150 NEMA 3 Enclosures, Lockable <small>(26 27 16)</small> Note: Can be used underground or encased in concrete.		
26 27 16 00-0151 2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0150)</small>		
26 27 16 00-0152 EA 4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	243.45	67.55
26 27 16 00-0153 3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0150)</small>		
26 27 16 00-0154 EA 4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	260.60	67.55
26 27 16 00-0155 EA 5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	330.34	69.96
26 27 16 00-0156 EA 6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	342.00	69.96
26 27 16 00-0157 EA 6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	427.14	72.38
26 27 16 00-0158 4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0150)</small>		
26 27 16 00-0159 EA 4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	327.18	69.96
26 27 16 00-0160 EA 5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	357.69	69.96
26 27 16 00-0161 EA 6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	372.76	72.38
26 27 16 00-0162 EA 6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	466.47	72.38
26 27 16 00-0163 EA 8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	512.41	77.20
26 27 16 00-0164 EA 8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	551.40	82.03
26 27 16 00-0165 EA 10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	573.68	82.03
26 27 16 00-0166 EA 10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	680.09	84.44
26 27 16 00-0167 EA 12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	737.05	86.85
26 27 16 00-0168 EA 12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,005.53	96.51
26 27 16 00-0169 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0150)</small>		
26 27 16 00-0170 EA 6" x 6" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	492.41	74.79
26 27 16 00-0171 EA 8" x 6" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	618.97	84.44
26 27 16 00-0172 EA 8" x 8" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	723.34	86.85
26 27 16 00-0173 EA 10" x 8" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	831.92	89.26
26 27 16 00-0174 EA 10" x 10" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	884.49	89.26
26 27 16 00-0175 EA 12" x 8" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,005.24	96.51
26 27 16 00-0176 EA 12" x 12" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,162.31	108.57
26 27 16 00-0177 EA 16" x 6" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,095.46	103.74
26 27 16 00-0178 EA 18" x 12" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,128.46	193.00
26 27 16 00-0179 EA 18" x 18" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,673.29	241.25
26 27 16 00-0180 8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0150)</small>		
26 27 16 00-0181 EA 8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	893.07	91.68
26 27 16 00-0182 EA 12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,340.37	120.63
26 27 16 00-0183 EA 12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,361.84	120.63
26 27 16 00-0184 EA 16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,847.68	180.94
26 27 16 00-0185 EA 18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,426.69	193.00
26 27 16 00-0186 EA 24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	6,134.91	337.76
26 27 16 00-0187 10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0150)</small>		
26 27 16 00-0188 EA 18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,233.28	241.25
26 27 16 00-0189 12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0150)</small>		
26 27 16 00-0190 EA 18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,960.41	289.51
26 27 16 00-0191 EA 24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,083.54	265.38

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0192 NEMA 3R Enclosures, Lockable <small>(26 27 16)</small> Note: Rain-tight enclosures.		
26 27 16 00-0193 Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0192)</small>		
26 27 16 00-0194 4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0193)</small>		
26 27 16 00-0195 EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	65.79	19.30
26 27 16 00-0196 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	72.54	21.23
26 27 16 00-0197 EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	93.13	21.23
26 27 16 00-0198 6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0193)</small>		
26 27 16 00-0199 EA 8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	123.09	28.95
26 27 16 00-0200 EA 10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	138.06	32.81
26 27 16 00-0201 EA 12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	159.91	36.67
26 27 16 00-0202 EA 12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	171.69	38.60
26 27 16 00-0203 EA 16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	223.44	50.18
26 27 16 00-0204 EA 16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	269.20	61.76
26 27 16 00-0205 EA 18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	315.07	77.20
26 27 16 00-0206 8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0193)</small>		
26 27 16 00-0207 EA 24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	457.07	98.43
26 27 16 00-0208 EA 24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	503.48	106.15
26 27 16 00-0209 EA 30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	558.17	111.95
26 27 16 00-0210 EA 30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	584.87	115.80
26 27 16 00-0211 10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0193)</small>		
26 27 16 00-0212 EA 12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	564.04	119.66
26 27 16 00-0213 EA 12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	637.07	135.10
26 27 16 00-0214 EA 12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	705.52	149.58
26 27 16 00-0215 EA 12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	776.63	165.02
26 27 16 00-0216 EA 12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	846.04	179.49
26 27 16 00-0217 EA 18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	386.18	94.57
26 27 16 00-0218 EA 24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	564.04	119.66
26 27 16 00-0219 EA 30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	647.13	123.52
26 27 16 00-0220 EA 36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	794.98	135.10
26 27 16 00-0221 12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0193)</small>		
26 27 16 00-0222 EA 12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	523.48	95.53
26 27 16 00-0223 EA 12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	587.44	107.12
26 27 16 00-0224 EA 12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	650.43	118.70
26 27 16 00-0225 EA 12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	718.65	131.24
26 27 16 00-0226 EA 12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	782.61	142.82
26 27 16 00-0227 EA 18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	391.30	71.41
26 27 16 00-0228 EA 18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	523.48	95.53
26 27 16 00-0229 EA 18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	587.44	107.12
26 27 16 00-0230 EA 18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	690.09	125.45
26 27 16 00-0231 EA 18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	782.61	142.82
26 27 16 00-0232 EA 30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	749.69	140.89
26 27 16 00-0233 EA 36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	782.61	142.82
26 27 16 00-0234 EA 36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	820.09	146.68
26 27 16 00-0235 EA 36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	903.26	154.41
26 27 16 00-0236 EA 42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	973.59	162.12
26 27 16 00-0237 Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0192)</small>		
26 27 16 00-0238 4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0237)</small>		
26 27 16 00-0239 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	56.05	15.44
26 27 16 00-0240 EA 6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	67.89	19.30
26 27 16 00-0241 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	74.94	21.23
26 27 16 00-0242 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	83.02	23.16
26 27 16 00-0243 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	96.43	27.02
26 27 16 00-0244 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	105.01	28.95
26 27 16 00-0245 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	114.28	30.88
26 27 16 00-0246 EA 12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	113.80	30.88
26 27 16 00-0247 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	124.19	32.81
26 27 16 00-0248 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	133.46	34.74
26 27 16 00-0249 EA 18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	201.97	54.04
26 27 16 00-0250 EA 18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	268.85	69.48
26 27 16 00-0251 6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0237)</small>		
26 27 16 00-0252 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	78.25	23.16
26 27 16 00-0253 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	106.29	28.95
26 27 16 00-0254 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	120.41	32.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0255 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	130.34	34.74
26 27 16 00-0256 EA 12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	129.64	34.74
26 27 16 00-0257 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	140.16	36.67
26 27 16 00-0258 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	150.76	38.60
26 27 16 00-0259 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	196.70	50.18
26 27 16 00-0260 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	226.85	59.84
26 27 16 00-0261 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	302.19	77.20
26 27 16 00-0262 EA 24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	315.93	82.99
26 27 16 00-0263 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	359.95	88.78
26 27 16 00-0264 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	404.77	96.51
26 27 16 00-0265 8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0237)		
26 27 16 00-0266 EA 12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure	168.60	42.46
26 27 16 00-0267 EA 18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure	244.96	65.63
26 27 16 00-0268 EA 18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure	334.27	84.92
26 27 16 00-0269 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure	398.32	98.43
26 27 16 00-0270 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure	449.68	106.15
26 27 16 00-0271 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure	498.46	111.95
26 27 16 00-0272 10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0237)		
26 27 16 00-0273 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	368.92	94.57
26 27 16 00-0274 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	495.04	119.66
26 27 16 00-0275 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	541.65	123.52
26 27 16 00-0276 12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0237)		
26 27 16 00-0277 EA 24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	546.71	131.24
26 27 16 00-0278 EA 30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	753.94	142.82
26 27 16 00-0279 EA 36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	779.02	146.68
26 27 16 00-0280 EA 36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	907.87	154.41
26 27 16 00-0281 NEMA 4 Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0282 Hinge Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0281)		
26 27 16 00-0283 EA 4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	91.05	13.51
26 27 16 00-0284 EA 6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	106.28	16.40
26 27 16 00-0285 EA 8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure	132.88	21.23
26 27 16 00-0286 EA 6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	126.37	21.23
26 27 16 00-0287 EA 10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	168.87	28.95
26 27 16 00-0288 EA 12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure	210.46	34.74
26 27 16 00-0289 EA 10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	194.38	32.81
26 27 16 00-0290 EA 12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	226.60	38.60
26 27 16 00-0291 EA 14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	266.68	44.40
26 27 16 00-0292 EA 16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	323.14	55.97
26 27 16 00-0293 Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0281)		
26 27 16 00-0294 EA 4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure	83.49	13.51
26 27 16 00-0295 EA 6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure	118.82	21.23
26 27 16 00-0296 Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0281)		
26 27 16 00-0297 EA 6" x 6" x 4" Screw Cover, Fiberglass NEMA 4 Or 4x Enclosure	104.75	18.53
26 27 16 00-0298 EA 8" x 6" x 4" Screw Cover, Fiberglass NEMA 4 Or 4x Enclosure	111.26	20.07
26 27 16 00-0299 EA 10" x 8" x 6" Screw Cover, Fiberglass NEMA 4 Or 4x Enclosure	136.49	26.25
26 27 16 00-0300 EA 12" x 10" x 6" Screw Cover, Fiberglass NEMA 4 Or 4x Enclosure	159.66	28.95
26 27 16 00-0301 EA 14" x 12" x 8" Screw Cover, Fiberglass NEMA 4 Enclosure	206.55	36.67
26 27 16 00-0302 EA 16" x 14" x 8" Screw Cover, Fiberglass NEMA 4 Enclosure	241.42	43.42
26 27 16 00-0303 EA 18" x 16" x 10" Screw Cover, Fiberglass NEMA 4 Enclosure	339.43	69.48
26 27 16 00-0304 NEMA 4X Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0305 Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0304)		
26 27 16 00-0306 EA 6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure	182.03	15.44
26 27 16 00-0307 EA 6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	214.39	21.23
26 27 16 00-0308 EA 10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	271.62	28.95
26 27 16 00-0309 EA 12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure	329.77	34.74
26 27 16 00-0310 EA 14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	406.45	44.40
26 27 16 00-0311 EA 16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	479.74	55.97
26 27 16 00-0312 Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures (26 27 16 00-0304)		
26 27 16 00-0313 EA 4" x 4" x 3" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	163.86	13.51
<i>For 316L Stainless Steel, Add</i>	<i>35.12</i>	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0314	EA		6" x 4" x 4" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure <i>For 316L Stainless Steel, Add</i>	214.71 44.94	19.30
26 27 16 00-0315	EA		6" x 6" x 4" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure <i>For 316L Stainless Steel, Add</i>	242.71 51.20	21.23
26 27 16 00-0316	EA		8" x 6" x 4" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure <i>For 316L Stainless Steel, Add</i>	276.75 59.09	23.16
26 27 16 00-0317	EA		10" x 8" x 4" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure..... <i>For 316L Stainless Steel, Add</i>	340.36 72.35	28.95
26 27 16 00-0318	EA		12" x 10" x 6" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure..... <i>For 316L Stainless Steel, Add</i>	475.02 103.50	36.67
26 27 16 00-0319	EA		14" x 12" x 6" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure..... <i>For 316L Stainless Steel, Add</i>	590.97 129.60	44.40
26 27 16 00-0320	EA		16" x 14" x 6" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure..... <i>For 316L Stainless Steel, Add</i>	714.70 155.19	55.97
26 27 16 00-0321			Screw Cover, Polycarbonate NEMA 4X Enclosures <small>(26 27 16 00-0304)</small> Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0322	EA		6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	98.64	21.23
26 27 16 00-0323	EA		8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	110.67	23.16
26 27 16 00-0324	EA		8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	126.92	27.02
26 27 16 00-0325	EA		10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	137.75	28.95
26 27 16 00-0326	EA		12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	158.79	32.81
26 27 16 00-0327	EA		10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	150.39	32.81
26 27 16 00-0328	EA		12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	174.40	36.67
26 27 16 00-0329	EA		14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	217.71	44.40
26 27 16 00-0330	EA		16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	280.32	60.80
26 27 16 00-0331	EA		18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	365.98	87.53
26 27 16 00-0332	EA		6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	105.25	21.23
26 27 16 00-0333	EA		8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	118.47	23.16
26 27 16 00-0334	EA		8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	135.32	27.02
26 27 16 00-0335	EA		10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	147.94	28.95
26 27 16 00-0336	EA		12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	169.58	32.81
26 27 16 00-0337	EA		10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	160.59	32.81
26 27 16 00-0338	EA		12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	188.23	36.67
26 27 16 00-0339	EA		14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	224.90	44.40
26 27 16 00-0340	EA		16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	295.31	60.80
26 27 16 00-0341	EA		18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	382.17	87.53
26 27 16 00-0342			Hinged Cover, Polycarbonate NEMA 4X Enclosures <small>(26 27 16 00-0304)</small> Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0343	EA		6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	117.24	21.23
26 27 16 00-0344	EA		8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	125.67	23.16
26 27 16 00-0345	EA		8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	143.11	27.02
26 27 16 00-0346	EA		10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	154.54	28.95
26 27 16 00-0347	EA		12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	182.18	32.81
26 27 16 00-0348	EA		10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	168.99	32.81
26 27 16 00-0349	EA		12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	205.61	36.67
26 27 16 00-0350	EA		14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	244.70	44.40
26 27 16 00-0351	EA		16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	303.71	60.80
26 27 16 00-0352	EA		18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	396.56	87.53
26 27 16 00-0353	EA		6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	122.04	21.23
26 27 16 00-0354	EA		8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	134.66	23.16
26 27 16 00-0355	EA		8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	151.50	27.02
26 27 16 00-0356	EA		10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	163.53	28.95
26 27 16 00-0357	EA		12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	194.17	32.81
26 27 16 00-0358	EA		10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	179.17	32.81
26 27 16 00-0359	EA		12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	218.21	36.67
26 27 16 00-0360	EA		14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	250.70	44.40
26 27 16 00-0361	EA		16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	323.49	60.80
26 27 16 00-0362	EA		18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	417.55	87.53
26 27 16 00-0363			NEMA 7/9 Enclosures, Lockable <small>(26 27 16)</small> Note: Nominal inside dimensions.		
26 27 16 00-0364			4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0363)</small>		
26 27 16 00-0365	EA		6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	1,052.99 44.25	108.57
26 27 16 00-0366	EA		6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	843.13 82.45	115.80
26 27 16 00-0367	EA		8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	1,636.60 113.69	130.28
26 27 16 00-0368			6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0363)</small>		
26 27 16 00-0369	EA		8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	1,457.05 57.81	130.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0370 EA 8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	1,894.25	133.90
<i>For Mounting Pan, Add</i>	113.69	
26 27 16 00-0371 EA 8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	1,939.19	144.75
<i>For Mounting Pan, Add</i>	86.96	
26 27 16 00-0372 EA 10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	1,989.66	144.75
<i>For Mounting Pan, Add</i>	101.75	
26 27 16 00-0373 EA 10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,810.27	180.94
<i>For Mounting Pan, Add</i>	133.49	
26 27 16 00-0374 EA 12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,648.32	162.84
<i>For Mounting Pan, Add</i>	83.35	
26 27 16 00-0375 EA 12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,741.18	180.94
<i>For Mounting Pan, Add</i>	124.71	
26 27 16 00-0376 EA 12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	4,239.84	325.70
<i>For Mounting Pan, Add</i>	167.79	
26 27 16 00-0377 EA 14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,361.45	217.13
<i>For Mounting Pan, Add</i>	163.36	
26 27 16 00-0378 EA 16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	4,420.69	361.89
<i>For Mounting Pan, Add</i>	149.98	
26 27 16 00-0379 EA 18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,289.68	361.89
<i>For Mounting Pan, Add</i>	243.82	
26 27 16 00-0380 8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0363)</small>		
26 27 16 00-0381 EA 8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,262.56	162.84
<i>For Mounting Pan, Add</i>	86.96	
26 27 16 00-0382 EA 10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,278.25	162.84
<i>For Mounting Pan, Add</i>	101.75	
26 27 16 00-0383 EA 10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,576.97	162.84
<i>For Mounting Pan, Add</i>	133.49	
26 27 16 00-0384 EA 12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,855.65	180.94
<i>For Mounting Pan, Add</i>	83.35	
26 27 16 00-0385 EA 12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	4,158.92	325.70
<i>For Mounting Pan, Add</i>	124.71	
26 27 16 00-0386 EA 12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,061.09	398.07
<i>For Mounting Pan, Add</i>	167.79	
26 27 16 00-0387 EA 12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	7,929.60	470.44
<i>For Mounting Pan, Add</i>	252.33	
26 27 16 00-0388 EA 14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	4,562.17	398.07
<i>For Mounting Pan, Add</i>	163.36	
26 27 16 00-0389 EA 16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	4,685.11	398.07
<i>For Mounting Pan, Add</i>	149.98	
26 27 16 00-0390 EA 16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	6,960.78	434.25
<i>For Mounting Pan, Add</i>	224.81	
26 27 16 00-0391 EA 18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,754.12	398.07
<i>For Mounting Pan, Add</i>	243.82	
26 27 16 00-0392 EA 18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	7,674.28	434.25
<i>For Mounting Pan, Add</i>	356.53	
26 27 16 00-0393 EA 18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	7,622.09	434.25
<i>For Mounting Pan, Add</i>	475.31	
26 27 16 00-0394 EA 18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	11,821.93	579.01
<i>For Mounting Pan, Add</i>	594.04	
26 27 16 00-0395 EA 24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	9,001.16	470.44
<i>For Mounting Pan, Add</i>	552.36	
26 27 16 00-0396 EA 24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	16,292.25	723.76
<i>For Mounting Pan, Add</i>	756.18	
26 27 16 00-0397 10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0363)</small>		
26 27 16 00-0398 EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	8,245.83	470.44
<i>For Mounting Pan, Add</i>	252.33	
26 27 16 00-0399 EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	7,590.66	434.25
<i>For Mounting Pan, Add</i>	224.81	
26 27 16 00-0400 EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	8,269.37	470.44
<i>For Mounting Pan, Add</i>	356.53	
26 27 16 00-0401 EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	10,435.23	506.63
<i>For Mounting Pan, Add</i>	594.04	
26 27 16 00-0402 EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	9,240.81	506.63
<i>For Mounting Pan, Add</i>	552.36	
26 27 16 00-0403 EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	17,740.97	723.76
<i>For Mounting Pan, Add</i>	756.18	
26 27 16 00-0404 12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0363)</small>		
26 27 16 00-0405 EA 12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,173.87	398.07
<i>For Mounting Pan, Add</i>	167.79	
26 27 16 00-0406 Breaker Enclosures <small>(26 27 16)</small>		
See CSI section 26 24 16 00-0001 for lighting and power panel boards.		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0407 15 To 100 Amp, F-Frame Breaker Enclosures <small>(26 27 16 00-0406)</small>		
26 27 16 00-0408 EA NEMA 1, Painted Steel, 15 To 100 Amp, F-Frame Breaker Enclosure.....	321.18	77.20
26 27 16 00-0409 EA NEMA 3R, Painted Steel, 15 To 100 Amp, F-Frame Breaker Enclosure.....	595.61	77.20
26 27 16 00-0410 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amp, F-Frame Breaker Enclosure.....	1,475.01	106.15
26 27 16 00-0411 EA NEMA 7, Cast Aluminum, 15 To 100 Amp, F-Frame Breaker Enclosure.....	2,001.69	115.80
26 27 16 00-0412 EA NEMA 9, Cast Aluminum, 15 To 100 Amp, F-Frame Breaker Enclosure.....	1,457.25	115.80
26 27 16 00-0413 EA NEMA 12, Painted Steel, 15 To 100 Amp, F-Frame Breaker Enclosure.....	507.92	106.15
26 27 16 00-0414 15 To 250 Amp, H Or J-Frame Breaker Enclosures <small>(26 27 16 00-0406)</small>		
26 27 16 00-0415 EA NEMA 1, Painted Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure.....	514.08	106.15
26 27 16 00-0416 EA NEMA 3R, Painted Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure.....	953.54	106.15
26 27 16 00-0417 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure.....	3,274.76	135.10
26 27 16 00-0418 EA NEMA 12, Painted Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure.....	783.75	135.10
26 27 16 00-0419 125 To 400 Amp, L-Frame Breaker Enclosures <small>(26 27 16 00-0406)</small>		
26 27 16 00-0420 EA NEMA 1, Painted Steel, 125 To 400 Amp, L-Frame Breaker Enclosure.....	801.38	212.31
26 27 16 00-0421 EA NEMA 3R, Painted Steel, 125 To 400 Amp, L-Frame Breaker Enclosure.....	1,885.04	212.31
26 27 16 00-0422 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amp, L-Frame Breaker Enclosure.....	5,546.31	270.21
26 27 16 00-0423 EA NEMA 12, Painted Steel, 125 To 400 Amp, L-Frame Breaker Enclosure.....	1,337.13	270.21
26 27 16 00-0424 300 To 800 Amp, M-Frame Breaker Enclosures <small>(26 27 16 00-0406)</small>		
26 27 16 00-0425 EA NEMA 1, Painted Steel, 300 To 800 Amp, M-Frame Breaker Enclosure.....	1,570.42	405.31
26 27 16 00-0426 EA NEMA 3R, Painted Steel, 300 To 800 Amp, M-Frame Breaker Enclosure.....	2,715.77	405.31
26 27 16 00-0427 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amp, M-Frame Breaker Enclosure.....	9,976.43	521.11
26 27 16 00-0428 EA NEMA 12, Painted Steel, 300 To 800 Amp, M-Frame Breaker Enclosure.....	5,381.77	521.11
26 27 16 00-0429 250 To 1,200 Amp, P-Frame Breaker Enclosures <small>(26 27 16 00-0406)</small>		
26 27 16 00-0430 EA NEMA 1, Painted Steel, 250 To 1,200 Amp, P-Frame Breaker Enclosure.....	1,922.49	405.31
26 27 16 00-0431 EA NEMA 3R, Painted Steel, 250 To 1,200 Amp, P-Frame Breaker Enclosure.....	3,272.57	405.31
26 27 16 00-0432 EA NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amp, P-Frame Breaker Enclosure.....	6,775.97	521.11
26 27 16 00-0433 Legend Plates <small>(26 27 16)</small>		
26 27 16 00-0434 EA 3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters.....	13.08	4.83
26 27 16 00-0435 EA 3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters.....	18.12	4.83
26 27 23 Indoor Service Poles <small>(26 27)</small>		
26 27 23 00-0001 Communication And Power Poles <small>(26 27 23)</small>		
Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.		
26 27 23 00-0002 Steel Communication And Power Poles <small>(26 27 23 00-0001)</small>		
26 27 23 00-0003 2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		
26 27 23 00-0004 2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0003)</small>		
26 27 23 00-0005 EA 2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	242.01	42.78
26 27 23 00-0006 EA 2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	262.33	42.78
26 27 23 00-0007 EA 2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	285.84	42.78
26 27 23 00-0008 Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0003)</small>		
Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009 EA Add-On Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	49.11	8.82
26 27 23 00-0010 EA Add-On Cover Plate For Three Duplex Receptacles.....	43.15	8.82
26 27 23 00-0011 EA Add-On Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	48.67	8.82
26 27 23 00-0012 EA Add-On Cover Plate For Data And A/V Modular Devices.....	36.42	8.82
26 27 23 00-0013 EA Add-On Radius Control Entrance End Fitting.....	30.23	8.82
26 27 23 00-0014 2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		
26 27 23 00-0015 2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0014)</small>		
26 27 23 00-0016 EA 2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	311.70	42.78
26 27 23 00-0017 EA 2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	355.38	42.78
26 27 23 00-0018 EA 2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	378.95	42.78
26 27 23 00-0019 Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0014)</small>		
Note: Excludes receptacles and communication jacks.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0020 EA Add-On Cover Plate For One Single Receptacle.....	33.69	8.82
26 27 23 00-0021 EA Add-On Cover Plate For One Duplex Receptacle.....	30.43	8.82
26 27 23 00-0022 EA Add-On Cover Plate For Data And A/V Modular Devices	32.76	8.82
26 27 23 00-0023 3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		
26 27 23 00-0024 3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0023)</small>		
26 27 23 00-0025 EA 3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	404.25	42.78
26 27 23 00-0026 EA 3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	456.83	42.78
26 27 23 00-0027 EA 3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	491.48	42.78
26 27 23 00-0028 Additional Cover Plates For 3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0023)</small>		
Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029 EA Add-On Cover Plate For One Single Receptacle.....	33.69	8.82
26 27 23 00-0030 EA Add-On Cover Plate For One Duplex Receptacle.....	30.43	8.82
26 27 23 00-0031 EA Add-On Cover Plate For Data And A/V Modular Devices	32.76	8.82
26 27 23 00-0032 Aluminum Communication And Power Poles <small>(26 27 23 00-0001)</small>		
26 27 23 00-0033 2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0034 2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0033)</small>		
26 27 23 00-0035 EA 2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	325.38	42.78
26 27 23 00-0036 EA 2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	362.13	42.78
26 27 23 00-0037 EA 2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	403.34	42.78
26 27 23 00-0038 Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0033)</small>		
26 27 23 00-0039 EA Add-On Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	50.82	8.82
26 27 23 00-0040 EA Add-On Cover Plate For Three Duplex Receptacles	51.85	8.82
26 27 23 00-0041 EA Add-On Cover Plate For Two Duplex Receptacles And One GFCI Receptacle	55.31	8.82
26 27 23 00-0042 EA Add-On Cover Plate For Data And A/V Modular Devices	38.36	8.82
26 27 23 00-0043 EA Add-On Radius Control Entrance End Fitting	30.23	8.82
26 27 23 00-0044 2-1/4" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0045 EA 2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	313.90	42.78
26 27 23 00-0046 EA 2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	351.60	42.78
26 27 23 00-0047 EA 2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	396.01	42.78
26 27 23 00-0048 5" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0049 EA 5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	649.68	42.78
26 27 23 00-0050 EA 5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	742.14	42.78
26 27 23 00-0051 EA 5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	845.70	42.78
26 27 23 00-0052 2" Diameter, Round Aluminum Communication And Power Pole <small>(26 27 23 00-0032)</small>		
26 27 23 00-0053 EA 2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	356.03	42.78
26 27 23 00-0054 EA 2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole	337.40	42.78
26 27 23 00-0055 EA 2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole.....	430.39	42.78
26 27 26 Wiring Devices <small>(26 27)</small>		
Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.		
26 27 26 00-0001 Receptacles <small>(26 27 26)</small>		
26 27 26 00-0002 General Use Receptacles <small>(26 27 26 00-0001)</small>		
26 27 26 00-0003 Receptacle Assemblies <small>(26 27 26 00-0002)</small>		
Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.		
26 27 26 00-0004 EA 1 Gang, 15 Amp, NEMA 5-15, Duplex Receptacle Assembly.....	79.72	34.26
26 27 26 00-0005 EA 1 Gang, 20 Amp, NEMA 5-20, Duplex Receptacle Assembly.....	85.74	36.67
26 27 26 00-0006 EA 2 Gang, 15 Amp, NEMA 5-15, Duplex Receptacle Assembly.....	103.34	43.90
26 27 26 00-0007 EA 2 Gang, 20 Amp, NEMA 5-20, Duplex Receptacle Assembly.....	115.36	48.73
26 27 26 00-0008 EA 1 Gang, 15 Amp, GFI, Duplex Receptacle Assembly	95.79	34.26
26 27 26 00-0009 EA 1 Gang, 20 Amp, GFI, Duplex Receptacle Assembly	102.66	36.67
26 27 26 00-0010 Receptacle Components <small>(26 27 26 00-0002)</small>		
26 27 26 00-0011 EA 15 Amp, NEMA 5-15, Single Receptacle, 125 Volt, 1 Phase.....	23.68	9.65
26 27 26 00-0012 EA 15 Amp, NEMA 5-15, Duplex Receptacle, 125 Volt, 1 Phase.....	22.74	9.65
26 27 26 00-0013 EA 15 Amp, Single Receptacle, 120/277 Volt, 3 Wire	28.27	9.65
26 27 26 00-0014 EA 15 Amp, Duplex Receptacle, 120/277 Volt, 3 Wire.....	31.47	9.65

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0015 EA 15 Amp, NEMA 6-15, Single Receptacle, 250 Volt, 1 Phase.....	40.37	12.06
26 27 26 00-0016 EA 15 Amp, NEMA 6-15, Duplex Receptacle, 250 Volt, 1 Phase.....	50.86	12.06
26 27 26 00-0017 EA 20 Amp, NEMA 5-20, Single Receptacle, 125 Volt, 1 Phase.....	24.91	9.65
26 27 26 00-0018 EA 20 Amp, NEMA 5-20, Duplex Receptacle, 125 Volt, 1 Phase.....	23.93	9.65
26 27 26 00-0019 EA 20 Amp, Single Receptacle, 120/277 Volt.....	38.34	9.65
26 27 26 00-0020 EA 20 Amp, Duplex Receptacle, 120/277 Volt.....	30.46	9.65
26 27 26 00-0021 EA 20 Amp, NEMA 6-20, Single Receptacle, 250 Volt, 1 Phase.....	40.37	12.06
26 27 26 00-0022 EA 20 Amp, NEMA 6-20, Duplex Receptacle, 250 Volt, 1 Phase.....	50.86	12.06
26 27 26 00-0023 EA 20 Amp, NEMA 14-20, Single Receptacle, 125/250 Volt, 1 Phase.....	84.52	12.06
26 27 26 00-0024 EA 20 Amp, NEMA 15-20, Single Receptacle, 250 Volt, 3 Phase.....	84.52	12.06
26 27 26 00-0025 EA 25 Amp, Duplex Receptacle, 120/277 Volt.....	67.74	14.48
26 27 26 00-0026 Specialty Receptacles (26 27 26 00-0001)		
26 27 26 00-0027 Specialty Receptacles (26 27 26 00-0026)		
26 27 26 00-0028 EA 30 Amp, NEMA 5-30, Single Receptacle, 125 Volt, 1 Phase.....	57.59	16.89
26 27 26 00-0029 EA 30 Amp, NEMA 6-30, Single Receptacle, 250 Volt, 1 Phase.....	57.59	16.89
26 27 26 00-0030 EA 30 Amp, NEMA 10-30 Single Receptacles, 125/250 Volt.....	56.82	16.89
26 27 26 00-0031 EA 30 Amp, NEMA 14-30, Single Receptacle, 125/250 Volt, 1 Phase.....	94.16	16.89
26 27 26 00-0032 EA 30 Amp, NEMA 15-30, Single Receptacle, 250 Volt, 3 Phase.....	98.99	19.30
26 27 26 00-0033 EA 50 Amp, NEMA 5-50, Single Receptacle, 125 Volt, 1 Phase.....	90.27	19.30
26 27 26 00-0034 EA 50 Amp, NEMA 6-50, Single Receptacle, 250 Volt, 1 Phase.....	87.81	19.30
26 27 26 00-0035 EA 50 Amp, NEMA 7-50 Single Receptacles, 277 Volt.....	75.13	19.30
26 27 26 00-0036 EA 50 Amp, NEMA 10-50 Single Receptacles, 125/250 Volt.....	68.11	19.30
26 27 26 00-0037 EA 50 Amp, NEMA 14-50, Single Receptacle, 125/250 Volt, 1 Phase.....	112.41	19.30
26 27 26 00-0038 EA 50 Amp, NEMA 15-50, Single Receptacle, 250 Volt, 3 Phase.....	117.23	21.71
26 27 26 00-0039 EA 60 Amp, NEMA 14-60, Single Receptacle, 125/250 Volt, 1 Phase.....	128.77	24.13
26 27 26 00-0040 EA 60 Amp, NEMA 15-60, Single Receptacle, 250 Volt, 3 Phase.....	138.42	28.95
26 27 26 00-0041 EA 100 Amp, 3 Phase, 480 Volt Joy Receptacle With Box - Complete.....	1,349.69	226.78
26 27 26 00-0042 EA 400 Amp, 4 Pole Weatherproof Generator Receptacle With Box - Complete.....	3,523.39	277.44
26 27 26 00-0043 EA 30 Amp, Dryer Receptacle, 230 Volt.....	69.40	19.30
26 27 26 00-0044 EA 60 Amp, Range Receptacle, 230 Volt.....	101.05	28.95
26 27 26 00-0045 EA 15 Or 20 Amp, Clock Hanger Receptacle, 120/277 Volt.....	69.98	12.06
26 27 26 00-0046 EA Cable Reel With 20 Amp, 120 Volt Receptacle - Complete.....	1,372.38	294.05
26 27 26 00-0047 Isolated Ground Receptacles (26 27 26 00-0026)		
26 27 26 00-0048 EA 15 Amp, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex.....	57.85	9.65
Note: 2 Pole, 3 wire.		
26 27 26 00-0049 EA 20 Amp, 120 Volt Isolated Ground Receptacles, Simplex.....	58.04	12.06
26 27 26 00-0050 EA 20 Amp, 120 Volt Isolated Ground Receptacles, Duplex.....	57.79	12.06
26 27 26 00-0051 EA 30 Amp, 120 Volt Isolated Ground Receptacles, Simplex.....	78.33	19.30
26 27 26 00-0052 EA Locking 15 Amp, 250 Volt Isolated Ground Receptacles.....	66.11	12.06
26 27 26 00-0053 EA Locking 15 Amp, 277 Volt Isolated Ground Receptacles.....	59.83	12.06
26 27 26 00-0054 EA Locking 20 Amp, 120/208 Volt Isolated Ground Receptacles.....	84.32	14.48
26 27 26 00-0055 EA Locking 20 Amp, 277/480 Volt Isolated Ground Receptacles.....	64.75	14.48
26 27 26 00-0056 EA Locking 20 Amp, 347/600 Volt Isolated Ground Receptacles.....	86.65	14.48
26 27 26 00-0057 EA Locking 30 Amp, 120/208 Volt Isolated Ground Receptacles.....	107.99	14.48
26 27 26 00-0058 EA Locking 30 Amp, 277 Volt Isolated Ground Receptacles.....	102.57	19.30
26 27 26 00-0059 Explosion Proof Receptacles (26 27 26 00-0026)		
26 27 26 00-0060 EA 1/2", 20 Amp, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly.....	542.45	24.13
26 27 26 00-0061 EA 3/4", 20 Amp, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly.....	502.06	26.54
26 27 26 00-0062 EA 3/4", 30 Amp, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	836.91	48.25
26 27 26 00-0063 EA 3/4", 30 Amp, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	1,047.63	48.25
26 27 26 00-0064 EA 1-1/4", 60 Amp, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	1,331.59	72.38
26 27 26 00-0065 EA 1-1/4", 60 Amp, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	1,270.58	72.38
26 27 26 00-0066 Ground Fault Circuit Interrupter (GFCI) (26 27 26 00-0026)		
26 27 26 00-0067 EA 15 Amp Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle.....	36.40	12.06
26 27 26 00-0068 EA 20 Amp Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle.....	50.51	14.48
26 27 26 00-0069 EA 15 Amp, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle.....	39.18	16.42
26 27 26 00-0070 EA 20 Amp, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle.....	66.98	19.30
26 27 26 00-0071 Arc Fault Circuit Interrupter (AFCI) (26 27 26 00-0026)		
26 27 26 00-0072 EA 15 Amp, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle.....	71.44	12.06
26 27 26 00-0073 EA 20 Amp, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle.....	79.22	12.06
26 27 26 00-0074 Locking Receptacle (26 27 26 00-0026)		
26 27 26 00-0075 EA NEMA L5-15, 125 Volt, 2 Pole, 15 Amp, Locking Receptacle.....	38.62	12.06
26 27 26 00-0076 EA NEMA L6-15, 250 Volt, 2 Pole, 15 Amp, Locking Receptacle.....	46.14	12.06
26 27 26 00-0077 EA NEMA L5-20, 125 Volt, 2 Pole, 20 Amp, Locking Receptacle.....	43.36	14.48
26 27 26 00-0078 EA NEMA L6-20, 250 Volt, 2 Pole, 20 Amp, Locking Receptacle.....	43.03	14.48
26 27 26 00-0079 EA NEMA L8-20, 480 Volt, 2 Pole, 20 Amp, Locking Receptacle.....	49.65	14.48
26 27 26 00-0080 EA NEMA L9-20, 600 Volt, 2 Pole, 20 Amp, Locking Receptacle.....	58.20	14.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0081 EA NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amp, Locking Receptacle.....	57.25	14.48
26 27 26 00-0082 EA NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amp, Locking Receptacle.....	51.00	14.48
26 27 26 00-0083 EA NEMA L5-30, 125 Volt, 2 Pole, 30 Amp, Locking Receptacle.....	59.51	19.30
26 27 26 00-0084 EA NEMA L6-30, 250 Volt, 2 Pole, 30 Amp, Locking, Receptacle.....	60.31	19.30
26 27 26 00-0085 EA NEMA L15-30, 250 Volt, 3 Pole, 30 Amp, Locking Receptacle.....	111.22	19.30
26 27 26 00-0086 Weathertight Pin And Sleeve Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0087 EA 20 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W).....	208.56	48.25
26 27 26 00-0088 EA 20 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W).....	208.09	48.25
26 27 26 00-0089 EA 20 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W).....	216.83	48.25
26 27 26 00-0090 EA 20 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W).....	263.53	53.07
26 27 26 00-0091 EA 20 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W).....	264.26	53.07
26 27 26 00-0092 EA 20 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W).....	262.58	53.07
26 27 26 00-0093 EA 30 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W).....	313.99	59.34
26 27 26 00-0094 EA 30 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W).....	299.78	59.34
26 27 26 00-0095 EA 30 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W).....	322.03	59.34
26 27 26 00-0096 EA 30 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W).....	326.17	65.14
26 27 26 00-0097 EA 30 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W).....	325.89	65.14
26 27 26 00-0098 EA 30 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W).....	327.91	65.14
26 27 26 00-0099 EA 60 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W).....	456.38	77.20
26 27 26 00-0100 EA 60 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W).....	439.17	77.20
26 27 26 00-0101 EA 60 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W).....	450.37	77.20
26 27 26 00-0102 EA 60 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W).....	501.52	85.89
26 27 26 00-0103 EA 60 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W).....	501.85	85.89
26 27 26 00-0104 EA 60 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W).....	502.18	85.89
26 27 26 00-0105 EA 100 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W).....	558.37	96.51
26 27 26 00-0106 EA 100 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W).....	580.43	96.51
26 27 26 00-0107 EA 100 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W).....	624.87	106.15
26 27 26 00-0108 EA 100 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W).....	623.21	106.15
26 27 26 00-0109 EA 100 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W).....	626.33	106.15
26 27 26 00-0110 Corrosion Resistant Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0111 EA 15/20 Amp, 125 Volt Corrosion Resistant, Power Receptacles.....	75.31	9.65
26 27 26 00-0112 EA 15/20 Amp, 250 Volt Corrosion Resistant, Power Receptacles.....	156.48	12.06
26 27 26 00-0113 Tamper Resistant Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0114 EA 15 Amp, 125 Volt Duplex Tamper Resistant Receptacle.....	22.52	9.65
Note: Pass & Seymour 3232-TR.		
26 27 26 00-0115 EA 20 Amp, 125 Volt Duplex Tamper Resistant Receptacle.....	24.18	9.65
Note: Pass & Seymour TR20.		
26 27 26 00-0116 EA 15 Amp, 125 Volt Single Specification Grade Tamper Resistant Receptacle.....	28.95	9.65
Note: Pass & Seymour TR5251.		
26 27 26 00-0117 EA 20 Amp, 125 Volt Single Specification Grade Tamper Resistant Receptacle.....	31.18	9.65
Note: Pass & Seymour TR5351.		
26 27 26 00-0118 EA 15 Amp, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle.....	44.60	9.65
Note: Pass & Seymour S1595-TR*CC8.		
26 27 26 00-0119 EA 15 Amp, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle.....	47.80	9.65
Note: Pass & Seymour 1595-TRS.		
26 27 26 00-0120 EA 20 Amp, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle.....	50.86	9.65
Note: Pass & Seymour 2095-TRS.		
26 27 26 00-0121 USB Charger/Duplex Tamper-Resistant Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0122 EA 15 Amp, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	45.80	9.65
26 27 26 00-0123 EA 20 Amp, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	49.11	9.65
26 27 26 00-0124 Television Receptacle <small>(26 27 26 00-0001)</small>		
26 27 26 00-0125 EA TV Receptacle With Cover (Type F) - Complete.....	68.38	22.39
26 27 26 00-0126 Switches <small>(26 27 26)</small>		
26 27 26 00-0127 Switches <small>(26 27 26 00-0126)</small>		
26 27 26 00-0128 Switch Assemblies <small>(26 27 26 00-0127)</small>		
Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.		
26 27 26 00-0129 EA 1 Gang, 15 Amp, 120/277 Volt, SPST, Switch Assembly.....	83.93	33.77
26 27 26 00-0130 EA 1 Gang, 20 Amp, 120/277 Volt, SPST, Switch Assembly.....	90.30	36.67
26 27 26 00-0131 EA 2 Gang, 15 Amp, 120/277 Volt, SPST, Switch Assembly.....	114.15	44.14
26 27 26 00-0132 EA 2 Gang, 20 Amp, 120/277 Volt, SPST, Switch Assembly.....	124.97	48.97
26 27 26 00-0133 EA 3 Gang, 15 Amp, 120/277 Volt, SPST, Switch Assembly.....	194.37	75.76
26 27 26 00-0134 EA 3 Gang, 20 Amp, 120/277 Volt, SPST, Switch Assembly.....	210.59	82.99
26 27 26 00-0135 EA 4 Gang, 15 Amp, 120/277 Volt, SPST, Switch Assembly.....	224.39	85.64
26 27 26 00-0136 EA 4 Gang, 20 Amp, 120/277 Volt, SPST, Switch Assembly.....	246.01	95.29

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0137 Switch Components <small>(26 27 26 00-0127)</small>		
26 27 26 00-0138 EA 15 Amp, 120/277 Volt, SPST Switch.....	27.91	9.65
26 27 26 00-0139 EA 15 Amp, 120/277 Volt, 3-Way Switch.....	35.45	12.06
26 27 26 00-0140 EA 15 Amp, 120/277 Volt, 4-Way Switch.....	71.44	19.30
26 27 26 00-0141 EA 15 Amp, 120/277 Volt, DPST Switch.....	32.92	9.65
26 27 26 00-0142 EA 15 Amp, 120/277 Volt, Thermal Switch.....	66.94	12.06
26 27 26 00-0143 EA 20 Amp, 120/277 Volt, SPST Switch.....	33.32	12.06
26 27 26 00-0144 EA 20 Amp, 120/277 Volt, 3-Way Switch.....	41.53	14.48
26 27 26 00-0145 EA 20 Amp, 120/277 Volt, 4-Way Switch.....	101.23	19.30
26 27 26 00-0146 EA 20 Amp, 120/277 Volt, DPST Switch.....	41.35	12.06
26 27 26 00-0147 EA 20 Amp, 120/277 Volt, DPDT Switch.....	44.91	12.06
26 27 26 00-0148 EA 15 Amp, 120/277 Volt, Single Pole, Momentary Contact Switch, Toggle, Three Position, Center Off.....	51.67	12.08
26 27 26 00-0149 EA 15 Amp, 120/277 Volt, Momentary Contact Switch, Key Operated, Single Pole, Three Position, Center Off.....	64.31	12.08
26 27 26 00-0150 EA Momentary Contact Switch With Separate Neon Pilot..... Note: Neon Pilot is 125 V, 1 / 125W.	50.48	14.50
26 27 26 00-0151 EA 20 Amp, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off..... Note: Or 250 VAC 10 Amp, double throw BAT handle.	51.61	16.89
26 27 26 00-0152 EA 20 Amp, 125 Volt AC, Double Pole, Maintained Contact Switch..... Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.	64.59	19.30
26 27 26 00-0153 EA 20 Amp, 125 Volt AC, Three Pole, Maintained Contact Switch..... Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.	101.30	19.30
26 27 26 00-0154 EA 30 Amp, 120/277 Volt, Single Pole Local Switch.....	53.81	19.32
26 27 26 00-0155 EA 30 Amp, 120/277 Volt, Double Pole Local Switch.....	65.16	19.32
26 27 26 00-0156 EA 30 Amp, 120/277 Volt, Three-Way Local Switch.....	69.17	24.16
26 27 26 00-0157 EA 30 Amp, 120/277 Volt, Four-Way Local Switch.....	94.72	26.58
26 27 26 00-0158 EA 15 Amp, 120/277 Volt, Local Switch With Neon Pilot.....	50.28	15.80
26 27 26 00-0159 EA 15 Amp, 120/277 Volt, Local Switch With Separate Neon Pilot..... Note: Neon pilot is 125V, 1/25W. Requires 2 gang installation.	67.59	15.80
26 27 26 00-0160 EA 15 Amp, 120 Volt, Single Pole Lighted Toggle Switch, Clear Toggle, Lighted In On Position.....	60.13	15.80
26 27 26 00-0161 EA 15 Amp, 120 Volt, Lighted Toggle Switch, Ivory Toggle, Lighted In Off Position.....	57.56	15.80
26 27 26 00-0162 EA Automatic Door Switch, Door Open-Light On, 6 Amp, 125 Volt.....	58.66	7.83
26 27 26 00-0163 EA Automatic Door Switch, Door Closed-Light On, 6 Amp, 125 Volt.....	62.14	7.83
26 27 26 00-0164 EA 15 Amp, 120/277 Volt, Single Pole Momentary Contact Switch, Three Position, Center Off, Toggle.....	69.74	30.15
26 27 26 00-0165 EA Momentary Contact Switch, Three Position, Center Off, Key Operated..... Note: 15A, 120/277 V, Single Pole	82.38	30.15
26 27 26 00-0166 EA Single Pole, Slide Dimmer (Leviton IP710-LFZ).....	93.94	9.66
26 27 26 00-0167 EA 8 Amp, 120/277 Volt, 0-10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH).....	89.52	9.66
26 27 26 00-0168 EA 120-277 Volt, (8 Amp Lighting/3 Amp Fan), Wireless Dimming Switch (Lutron MRF2-8S-DV-WH).....	126.82	9.65
26 27 26 00-0169 EA 120 Volt, Companion Wireless Dimmer Switch (Lutron MA-AS-WH).....	44.10	9.65
26 27 26 00-0170 EA Sunrise Electronic Wall Dimmer, 1200VA 0-10V LED and Fluorescent (Philips SR1200ZTUNV).....	96.01	9.66
26 27 26 00-0171 EA 1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000).....	111.55	9.66
26 27 26 00-0172 EA 2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000).....	145.45	9.66
26 27 26 00-0173 EA Wireless Single Rocker Remote Switch (Leviton WSS0S-S9).....	96.57	9.66
26 27 26 00-0174 Specialty Switches <small>(26 27 26 00-0126)</small>		
26 27 26 00-0175 Dimmers With SPST Switch <small>(26 27 26 00-0174)</small>		
26 27 26 00-0176 EA 600 Watt Dimmers With SPST Switch.....	62.04	21.71
26 27 26 00-0177 EA 1,000 Watt Dimmers With SPST Switch.....	120.13	21.71
26 27 26 00-0178 EA 1,500 Watt Dimmers With SPST Switch.....	219.89	34.94
26 27 26 00-0179 EA 2,000 Watt Dimmers With SPST Switch.....	294.02	34.94
26 27 26 00-0180 EA 600 Watt Fluorescent Dimmer Switch.....	158.35	25.77
26 27 26 00-0181 EA 1,000 Watt Fluorescent Dimmer Switch.....	222.13	25.77
26 27 26 00-0182 EA 1,500 Watt Fluorescent Dimmer Switch.....	408.68	38.89
26 27 26 00-0183 EA Remote Speed Switch For Paddle Fan.....	105.32	32.13
26 27 26 00-0184 EA 600 Watt Combination Remote Speed Switch/Incandescent Dimmer.....	178.02	47.96
26 27 26 00-0185 Time Switches <small>(26 27 26 00-0174)</small>		
26 27 26 00-0186 EA 40 Amp, SPST, 125 Volt, Standard Time Switch.....	125.00	28.95
26 27 26 00-0187 EA 40 Amp, SPST, 277 Volt, Standard Time Switch.....	128.36	28.95
26 27 26 00-0188 EA 40 Amp, DPST, 125 Volt, Standard Time Switch.....	125.00	28.95
26 27 26 00-0189 EA 40 Amp, DPST, 277 Volt, Standard Time Switch.....	128.36	28.95
26 27 26 00-0190 EA 40 Amp, SPST, 125 Volt, 7-Day Time Switch.....	147.37	28.95
26 27 26 00-0191 EA 40 Amp, SPST, 277 Volt, 7-Day Time Switch.....	147.37	28.95
26 27 26 00-0192 EA 40 Amp, DPDT, 125 Volt, 7-Day Time Switch.....	279.34	28.95
26 27 26 00-0193 EA 40 Amp, DPDT, 277 Volt, 7-Day Time Switch.....	279.34	28.95
26 27 26 00-0194 EA 20 Amp, SPST, 125 Volt, Programmable Time Switch.....	237.00	28.95
26 27 26 00-0195 EA 20 Amp, SPST, 277 Volt, Programmable Time Switch.....	262.86	28.95
26 27 26 00-0196 EA 20 Amp, SPST, 277 Volt, Programmable Time Switch - Weatherproof.....	262.86	28.95
26 27 26 00-0197 EA 40 Amp, 4PST, 125 Volt, Astro Dial Time Switch.....	323.97	28.95
26 27 26 00-0198 EA 40 Amp, 4PST, 277 Volt, Astro Dial Time Switch.....	334.25	28.95
26 27 26 00-0199 EA 40 Amp, SPST, 125 Volt, Standard Time Switch - Weatherproof.....	125.00	28.95
26 27 26 00-0200 EA 40 Amp, SPST, 277 Volt, Standard Time Switch - Weatherproof.....	128.36	28.95
26 27 26 00-0201 EA 40 Amp, DPST, 125 Volt, Standard Time Switch - Weatherproof.....	125.00	28.95
26 27 26 00-0202 EA 40 Amp, DPST, 277 Volt, Standard Time Switch - Weatherproof.....	128.36	28.95
26 27 26 00-0203 EA 40 Amp, SPST, 125 Volt, 7-Day Time Switch - Weatherproof.....	147.37	28.95
26 27 26 00-0204 EA 40 Amp, SPST, 277 Volt, 7-Day Time Switch - Weatherproof.....	147.37	28.95
26 27 26 00-0205 EA 40 Amp, DPDT, 125 Volt, 7-Day Time Switch - Weatherproof.....	279.34	28.95
26 27 26 00-0206 EA 40 Amp, DPDT, 277 Volt, 7-Day Time Switch - Weatherproof.....	279.34	28.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0207 EA 40 Amp, 4PST, 125 Volt, Astro Dial Time Switch - Weatherproof.....	323.97	28.95
26 27 26 00-0208 EA 40 Amp, 4PST, 277 Volt, Astro Dial Time Switch - Weatherproof.....	334.25	28.95
26 27 26 00-0209 Low Voltage Switching (26 27 26 00-0174)		
26 27 26 00-0210 EA 36 Pin Male Or Female Connector	236.24	9.65
26 27 26 00-0211 Other Switches (26 27 26 00-0174)		
26 27 26 00-0212 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture.....	33.11	14.48
26 27 26 00-0213 EA Locking Switch, SPST Concealed Devices.....	106.05	38.60
26 27 26 00-0214 EA Locking Switch, 3-Way Concealed Devices.....	107.84	38.60
26 27 26 00-0215 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard	123.28	36.09
26 27 26 00-0216 EA 15 Amp Momentary Contact Switch.....	115.96	36.09
26 27 26 00-0217 EA 20 Amp Momentary Contact Switch.....	123.67	36.09
26 27 26 00-0218 EA 2-1/4" Handy Box Cover Units Fuseholder Switch.....	108.50	43.49
26 27 26 00-0219 EA 2-3/4" Handy Box Cover Units Fuseholder Switch.....	110.65	43.49
26 27 26 00-0220 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches.....	136.44	53.15
26 27 26 00-0221 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch	124.08	48.32
26 27 26 00-0222 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch	124.62	48.32
26 27 26 00-0223 Plates And Covers (26 27 26)		
26 27 26 00-0224 Wall Plates (26 27 26 00-0223)		
26 27 26 00-0225 Nylon Wall Plates (26 27 26 00-0224)		
26 27 26 00-0226 EA 1 Gang Nylon Switch Plate	1.37	0.48
26 27 26 00-0227 EA 2 Gang Nylon Switch Plate	2.27	0.72
26 27 26 00-0228 EA 3 Gang Nylon Switch Plate	3.21	0.96
26 27 26 00-0229 EA 4 Gang Nylon Switch Plate	4.52	1.20
26 27 26 00-0230 EA 1 Gang Duplex Nylon Wall Plate.....	1.38	0.48
26 27 26 00-0231 EA 2 Gang Duplex Nylon Wall Plate.....	2.32	0.72
26 27 26 00-0232 Plastic Wall Plates (26 27 26 00-0224)		
26 27 26 00-0233 EA 1 Gang Plastic Switch Plate.....	1.29	0.48
26 27 26 00-0234 EA 2 Gang Plastic Switch Plate.....	2.10	0.72
26 27 26 00-0235 EA 3 Gang Plastic Switch Plate.....	2.95	0.96
26 27 26 00-0236 EA 4 Gang Plastic Switch Plate.....	4.52	1.20
26 27 26 00-0237 EA 1 Gang Duplex Plastic Wall Plate	1.29	0.48
26 27 26 00-0238 EA 2 Gang Duplex Plastic Wall Plate	2.11	0.72
26 27 26 00-0239 Brass Wall Plates (26 27 26 00-0224)		
26 27 26 00-0240 EA 1 Gang 0.04" Brass Switch Plate.....	12.13	2.18
26 27 26 00-0241 EA 2 Gang 0.04" Brass Switch Plate.....	21.94	2.51
26 27 26 00-0242 EA 3 Gang 0.04" Brass Switch Plate.....	31.64	2.80
26 27 26 00-0243 EA 4 Gang 0.04" Brass Switch Plate.....	48.53	3.04
26 27 26 00-0244 EA 5 Gang 0.04" Brass Switch Plate.....	58.86	3.24
26 27 26 00-0245 EA 6 Gang 0.04" Brass Switch Plate.....	67.94	3.38
26 27 26 00-0246 EA 1 Gang 0.04" Brass Duplex Receptacle Wall Plate.....	12.13	2.18
26 27 26 00-0247 EA 2 Gang 0.04" Brass Duplex Receptacle Wall Plate.....	25.49	2.51
26 27 26 00-0248 EA 3 Gang 0.04" Brass Duplex Receptacle Wall Plate.....	36.32	2.80
26 27 26 00-0249 Stainless Steel Wall Plates (26 27 26 00-0224)		
26 27 26 00-0250 EA 1 Gang, 302 Stainless Steel Switch Plate With Satin Finish.....	7.01	2.18
26 27 26 00-0251 EA 2 Gang, 302 Stainless Steel Switch Plate With Satin Finish.....	10.75	2.51
26 27 26 00-0252 EA 3 Gang, 302 Stainless Steel Switch Plate With Satin Finish.....	14.65	2.80
26 27 26 00-0253 EA 4 Gang, 302 Stainless Steel Switch Plate With Satin Finish.....	20.93	3.04
26 27 26 00-0254 EA 5 Gang, 302 Stainless Steel Switch Plate With Satin Finish.....	24.46	3.24
26 27 26 00-0255 EA 6 Gang, 302 Stainless Steel Switch Plate With Satin Finish.....	29.31	3.38
26 27 26 00-0256 EA 1 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish	7.57	2.18
26 27 26 00-0257 EA 2 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish	12.08	2.51
26 27 26 00-0258 EA 3 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish	19.04	2.80
26 27 26 00-0259 EA 4 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish	22.84	3.04
26 27 26 00-0260 Chrome Wall Plates (26 27 26 00-0224)		
26 27 26 00-0261 EA 1 Gang 0.040" Chrome Switch Plate With Chromium Finish	23.16	2.18
26 27 26 00-0262 EA 2 Gang 0.040" Chrome Switch Plate With Chromium Finish	42.60	2.51
26 27 26 00-0263 EA 3 Gang 0.040" Chrome Switch Plate With Chromium Finish	61.98	2.80
26 27 26 00-0264 EA 1 Gang 0.040" Chrome Duplex Receptacle Wall Plate With Chromium Finish.....	23.14	2.18
26 27 26 00-0265 Weatherproof Covers (26 27 26 00-0223)		
26 27 26 00-0266 Stamped Metallic Weatherproof Covers (26 27 26 00-0265)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0267 EA Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC).....	9.15	0.48

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 27 26 00-0268	EA	Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC).....	9.91	0.48
	26 27 26 00-0269	EA	Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC).....	9.91	0.48
	26 27 26 00-0270	EA	Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC).....	9.91	0.48
	26 27 26 00-0271	EA	Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC).....	12.17	0.72
	26 27 26 00-0272	EA	Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC).....	13.81	0.72
	26 27 26 00-0273	EA	Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC).....	13.97	0.72
	26 27 26 00-0274	EA	Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC).....	13.97	0.72
	26 27 26 00-0275	EA	Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC).....	18.96	0.72
	26 27 26 00-0276	EA	Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB).....	18.02	0.96
	26 27 26 00-0277	EA	Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT).....	19.69	0.96
26 27 26 00-0278			Cast Metallic Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes electrostatically applied powder coating and neoprene gasket.		
	26 27 26 00-0279	EA	Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC).....	11.19	0.48
	26 27 26 00-0280	EA	Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA).....	35.62	0.48
	26 27 26 00-0281	EA	Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR).....	39.93	0.48
	26 27 26 00-0282	EA	Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG).....	11.11	0.48
	26 27 26 00-0283	EA	Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT).....	30.20	0.48
	26 27 26 00-0284	EA	Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT).....	50.20	0.48
	26 27 26 00-0285	EA	Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST).....	63.89	0.48
	26 27 26 00-0286	EA	Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC).....	13.97	0.72
	26 27 26 00-0287	EA	Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST).....	100.92	0.72
	26 27 26 00-0288	EA	Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC).....	23.38	0.96
	26 27 26 00-0289	EA	Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST).....	96.47	0.96
26 27 26 00-0290			Die Cast Aluminum Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes electrostatically applied powder coating and neoprene gasket.		
	26 27 26 00-0291	EA	Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027).....	3.82	0.48
	26 27 26 00-0292	EA	Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026).....	4.86	0.48
	26 27 26 00-0293	EA	Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032).....	6.54	0.72
	26 27 26 00-0294	EA	Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041).....	7.09	0.72
	26 27 26 00-0295	EA	Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042).....	7.09	0.72
	26 27 26 00-0296	EA	Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043).....	7.87	0.72
26 27 26 00-0297			Heavy Duty Die Cast Aluminum Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes baked on lacquer finish and neoprene gasket.		
	26 27 26 00-0298	EA	Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510).....	37.84	0.48
26 27 26 00-0299			Polycarbonate Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes neoprene gasket.		
	26 27 26 00-0300	EA	Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	7.72	0.48
	26 27 26 00-0301	EA	Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	7.72	0.48
	26 27 26 00-0302	EA	Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	7.72	0.48
	26 27 26 00-0303	EA	Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	9.58	0.72
	26 27 26 00-0304	EA	Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	9.58	0.72
26 27 26 00-0305			High Impact Thermoplastic Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes neoprene gasket.		
	26 27 26 00-0306	EA	Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522).....	51.03	0.48
26 27 26 00-0307			Non Metallic (PVC) Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes neoprene gasket.		
	26 27 26 00-0308	EA	Blank Cover, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	7.71	0.48
	26 27 26 00-0309	EA	Blank Cover, Two Gang, Non Metallic (PVC) Weatherproof Cover.....	8.39	0.72
	26 27 26 00-0310	EA	Toggle Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	7.74	0.48
	26 27 26 00-0311	EA	Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	16.74	0.48
	26 27 26 00-0312	EA	Duplex Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	19.36	0.48
	26 27 26 00-0313	EA	20 Amp Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	15.74	0.48
	26 27 26 00-0314	EA	30 Amp Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	11.80	0.48
	26 27 26 00-0315	EA	50 Amp Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	13.76	0.48
	26 27 26 00-0316	EA	Plunger Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	12.33	0.48
	26 27 26 00-0317	EA	Double Duplex Receptacle, Two Gang, Non Metallic (PVC) Weatherproof Cover.....	17.78	0.72
26 27 26 00-0318			Removal And Reinstallation Of Wiring Devices <small>(26 27 26)</small>		
			Note: Includes storage and cleaning.		
	26 27 26 00-0319	EA	Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device.....	63.49	
	26 27 26 00-0320	EA	Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate.....	8.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0321 In Line Midget Fuseholders <small>(26 27 26)</small> See CSI section 26 28 13 00-0078 for fuses.		
26 27 26 00-0322 EA Single Pole Water Resistant In Line Midget Fuseholder	61.40	
26 27 26 00-0323 EA Double Pole Water Resistant In Line Midget Fuseholder	128.10	
26 27 26 00-0324 Relay Systems <small>(26 27 26)</small>		
26 27 26 00-0325 EA Relay 2 Position, 10 Amp, 24 Volt Coil	66.26	21.71
26 27 26 00-0326 EA Industrial Control Relay 20 Amp, 120 Volt Coil Up To 4 Contacts	266.48	72.38
26 27 26 00-0327 EA Industrial Control Relay 20 Amp, 120 Volt Coil 12 Contacts	436.64	96.51
26 27 26 00-0328 Limit Switches <small>(26 27 26)</small>		
26 27 26 00-0329 Heavy Duty Precision Oiltight <small>(26 27 26 00-0328)</small>		
26 27 26 00-0330 Lever Arm, Plunger, Wobble Stick Type <small>(26 27 26 00-0329)</small>		
26 27 26 00-0331 EA Limit Switch, Heavy Duty, Lever Arm Weatherproof, 10 Amp Rated	377.18	60.80
26 27 33 Power Distribution Units <small>(26 27)</small> Note: Includes wiring connections and testing.		
26 27 33 00-0001 Liebert Precision Power Center <small>(26 27 33)</small> Note: With K20 Trans Spike Suppression Modules Lighting/Surge Arrestors. Includes start-up.		
26 27 33 00-0002 EA PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C)	11,918.86	296.74
26 27 33 00-0003 EA PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C)	14,372.09	321.64
26 27 33 00-0004 EA PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C)	16,374.17	357.06
26 27 33 00-0005 EA PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C)	18,826.70	386.00
26 27 33 00-0006 EA PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C)	20,576.14	482.51
26 27 33 00-0007 EA PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C)	23,103.81	579.01
26 27 33 00-0008 EA PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C)	26,661.47	675.51
26 27 33 00-0009 EA PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C)	28,260.58	772.01
26 27 33 00-0010 EA PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C)	29,679.69	868.52
26 27 33 00-0011 EA Ex Panelboard 10-30 KVA	1,094.82	96.51
26 27 33 00-0012 EA Ex Panelboard 50-125 KVA	1,623.73	120.63
26 27 33 00-0013 EA Ex Panelboard 150-220 KVA	3,594.65	144.75
26 27 33 00-0014 EA Removal And Reinstallation Of Power Distribution Unit	1,544.03	
26 27 33 00-0015 EA Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only	1,158.02	
26 27 73 Door Chimes <small>(26 27)</small>		
26 27 73 00-0001 Door Bell System <small>(26 27 73)</small>		
26 27 73 00-0002 EA Door Bell, Push-button And Transformer - Complete	583.37	201.02
26 27 73 00-0003 EA Visual Flashing Doorbell Indicator, Wire To Existing System - Complete	266.72	48.25
26 27 73 00-0004 EA Replacement Bell/Buzzer - Complete	104.17	24.13
		Note: Includes removal of existing.
26 28 Low-Voltage Circuit Protective Devices <small>(26 20)</small>		
26 28 13 Fuses <small>(26 28)</small>		
26 28 13 00-0001 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses <small>(26 28 13)</small>		
26 28 13 00-0002 EA 1 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	20.69	6.94
	4.63	
	20.27	6.94
	4.63	
26 28 13 00-0004 EA 3 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	19.70	6.94
	4.63	
26 28 13 00-0005 EA 5 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	19.62	6.94
	4.63	
26 28 13 00-0006 EA 6 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	20.15	6.94
	4.63	
26 28 13 00-0007 EA 8 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	19.12	6.94
	4.63	
26 28 13 00-0008 EA 10 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	18.87	6.94
	4.63	
26 28 13 00-0009 EA 15 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	16.85	6.94
	4.63	
26 28 13 00-0010 EA 20 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	16.54	6.94
	4.63	
26 28 13 00-0011 EA 25 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	17.12	6.94
	4.63	
26 28 13 00-0012 EA 30 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	16.72	6.94
	4.63	
26 28 13 00-0013 Class RK1, Time Delay Fuses <small>(26 28 13)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0054 EA 20 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	37.79	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0055 EA 25 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	37.43	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0056 EA 30 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	37.96	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0057 EA 35 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	53.78	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0058 EA 40 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	53.90	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0059 EA 45 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	52.90	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0060 EA 50 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	53.37	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0061 EA 60 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	53.79	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0062 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses ^(26 28)		
<small>13 00-0013</small>		
26 28 13 00-0063 EA 70 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	98.99	8.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.79	
26 28 13 00-0064 EA 80 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	101.71	9.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.37	
26 28 13 00-0065 EA 90 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	101.18	9.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.37	
26 28 13 00-0066 EA 100 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	101.60	9.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.37	
26 28 13 00-0067 EA 110 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	182.62	9.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.37	
26 28 13 00-0068 EA 125 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	185.31	9.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.37	
26 28 13 00-0069 EA 150 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	183.99	11.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.82	
26 28 13 00-0070 EA 200 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	183.54	11.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.82	
26 28 13 00-0071 EA 250 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	345.01	11.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.82	
26 28 13 00-0072 EA 300 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	348.29	14.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.55	
26 28 13 00-0073 EA 350 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	391.91	14.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.55	
26 28 13 00-0074 EA 400 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	355.71	14.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.55	
26 28 13 00-0075 EA 450 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	633.60	14.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.55	
26 28 13 00-0076 EA 500 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	566.59	17.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.58	
26 28 13 00-0077 EA 600 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	495.21	17.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.58	
26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses ^(26 28 13)		
Note: 250/300 Volt DC.		
26 28 13 00-0079 EA 1 Amp, 600 Volt AC, Class CC Midget Fuse.....	34.81	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0080 EA 2 Amp, 600 Volt AC, Class CC Midget Fuse.....	35.30	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0081 EA 3 Amp, 600 Volt AC, Class CC Midget Fuse.....	35.16	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0082 EA 5 Amp, 600 Volt AC, Class CC Midget Fuse.....	35.00	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0083 EA 6 Amp, 600 Volt AC, Class CC Midget Fuse.....	37.30	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0084 EA 8 Amp, 600 Volt AC, Class CC Midget Fuse.....	33.63	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0085 EA 10 Amp, 600 Volt AC, Class CC Midget Fuse.....	37.93	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0086 EA 15 Amp, 600 Volt AC, Class CC Midget Fuse.....	35.02	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0087 EA 20 Amp, 600 Volt AC, Class CC Midget Fuse.....	34.42	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0088 EA 25 Amp, 600 Volt AC, Class CC Midget Fuse.....	33.05	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0089 EA 30 Amp, 600 Volt AC, Class CC Midget Fuse.....	34.21	6.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 28 13 00-0090 200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse ⁽²⁶⁾		
<small>28 13)</small>		
26 28 13 00-0091 EA 1 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	42.88	4.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.90	
26 28 13 00-0092 EA 3 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	43.20	4.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.90	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0093	EA		6 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	37.89	5.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.47	
26 28 13 00-0094	EA		10 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	38.24	7.23
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.34	
26 28 13 00-0095	EA		15 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	39.00	7.23
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.34	
26 28 13 00-0096	EA		20 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	38.32	7.23
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.34	
26 28 13 00-0097	EA		25 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	48.97	9.65
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	
26 28 13 00-0098	EA		30 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	41.35	9.65
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	
26 28 13 00-0099	EA		35 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	69.80	9.65
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	
26 28 13 00-0100	EA		40 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	60.00	9.65
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	
26 28 13 00-0101	EA		45 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	68.30	9.65
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	
26 28 13 00-0102	EA		50 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	61.86	12.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.24	
26 28 13 00-0103	EA		60 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	60.80	12.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.24	
26 28 13 00-0104	EA		70 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	92.93	14.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.69	
26 28 13 00-0105	EA		80 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	98.75	14.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.69	
26 28 13 00-0106	EA		90 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	97.26	14.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.69	
26 28 13 00-0107	EA		100 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	86.64	16.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.13	
26 28 13 00-0108	EA		110 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	195.16	16.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.13	
26 28 13 00-0109	EA		125 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	166.72	16.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.13	
26 28 13 00-0110	EA		150 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	160.07	19.30
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 28 13 00-0111	EA		175 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	162.33	19.30
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 28 13 00-0112	EA		200 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	135.88	19.30
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 28 13 00-0113	EA		225 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	333.70	19.30
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 28 13 00-0114	EA		250 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	309.01	19.30
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 28 13 00-0115	EA		300 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	285.25	19.30
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 28 13 00-0116	EA		350 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	310.54	19.30
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 28 13 00-0117	EA		400 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	258.34	21.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 28 13 00-0118	EA		450 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	540.44	21.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 28 13 00-0119	EA		500 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	460.65	24.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.48	
26 28 13 00-0120	EA		600 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	344.75	24.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.48	
26 28 13 00-0121			600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses <small>(26 28 13)</small>		
26 28 13 00-0122	EA		100 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,023.99	12.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.24	
26 28 13 00-0123	EA		150 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,026.00	12.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.24	
26 28 13 00-0124	EA		200 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,027.88	12.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.24	
26 28 13 00-0125	EA		250 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,025.49	14.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.69	
26 28 13 00-0126	EA		300 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	944.89	14.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.69	
26 28 13 00-0127	EA		350 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,011.57	16.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.13	
26 28 13 00-0128	EA		400 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	931.55	16.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.13	
26 28 13 00-0129	EA		450 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,041.13	16.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.13	
26 28 13 00-0130	EA		500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,020.94	16.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.13	
26 28 13 00-0131	EA		600 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	909.70	19.30
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 28 13 00-0132	EA		601 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	933.99	19.30
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 28 13 00-0133	EA		650 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,239.24	19.30
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0134 EA 700 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	905.30	19.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 28 13 00-0135 EA 750 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,387.02	21.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 28 13 00-0136 EA 800 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	802.55	21.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 28 13 00-0137 EA 900 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,167.99	21.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 28 13 00-0138 EA 1,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	789.20	21.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 28 13 00-0139 EA 1,200 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	812.43	21.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 28 13 00-0140 EA 1,350 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,795.48	21.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 28 13 00-0141 EA 1,400 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,770.38	21.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 28 13 00-0142 EA 1,500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,598.14	21.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 28 13 00-0143 EA 1,600 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,002.70	24.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.48	
26 28 13 00-0144 EA 1,800 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,114.21	24.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.48	
26 28 13 00-0145 EA 2,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,356.99	24.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.48	
26 28 13 00-0146 EA 2,500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,831.03	24.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.48	
26 28 13 00-0147 EA 2,501 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,112.38	24.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.48	
26 28 13 00-0148 EA 3,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,041.05	26.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.92	
26 28 13 00-0149 EA 3,500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,209.38	26.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.92	
26 28 13 00-0150 EA 3,800 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,882.61	26.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.92	
26 28 13 00-0151 EA 4,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,827.86	26.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.92	
26 28 13 00-0152 EA 5,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,456.57	26.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.92	
26 28 13 00-0153 EA 6,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	7,370.33	26.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.92	

26 28 16 Enclosed Switches And Circuit Breakers (26 28)

26 28 16 00-0001	Motor And Circuit Disconnects (26 28 16)		
	Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.		
26 28 16 00-0002	NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0001)		
26 28 16 00-0003	Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0002)		
	Note: Includes fuses and neutral bar.		
26 28 16 00-0004	240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0003)		
26 28 16 00-0005 EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	339.04	96.51
26 28 16 00-0006 EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	524.67	116.28
26 28 16 00-0007 EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	715.58	136.07
26 28 16 00-0008 EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,228.02	214.23
26 28 16 00-0009 EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,582.89	332.93
26 28 16 00-0010 EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,298.43	492.16
26 28 16 00-0011 EA	800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,842.53	579.01
26 28 16 00-0012 EA	1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,820.70	675.51
26 28 16 00-0013	600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0003)		
26 28 16 00-0014 EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	506.81	107.22
26 28 16 00-0015 EA	60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	611.44	129.22
26 28 16 00-0016 EA	100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	959.76	151.02
26 28 16 00-0017 EA	200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,422.57	238.36

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0018 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,069.27	369.79
26 28 16 00-0019 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,777.63	546.59
26 28 16 00-0020 EA 800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,026.74	642.99
26 28 16 00-0021 EA 1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,570.37	750.59
26 28 16 00-0022 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0003)</small>		
26 28 16 00-0023 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	485.68	151.51
26 28 16 00-0024 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	710.45	201.21
26 28 16 00-0025 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	945.59	223.40
26 28 16 00-0026 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,494.93	349.82
26 28 16 00-0027 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,069.93	574.18
26 28 16 00-0028 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,962.97	804.35
26 28 16 00-0029 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0003)</small>		
26 28 16 00-0030 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	627.43	167.43
26 28 16 00-0031 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	799.90	223.40
26 28 16 00-0032 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,160.44	251.38
26 28 16 00-0033 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,711.66	383.12
26 28 16 00-0034 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,757.52	618.58
26 28 16 00-0035 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,022.83	893.61
26 28 16 00-0036 EA 800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,499.76	1,061.52
26 28 16 00-0037 EA 1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	12,108.13	1,206.27
26 28 16 00-0038 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0003)</small>		
26 28 16 00-0039 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	471.66	151.51
26 28 16 00-0040 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	692.32	201.21
26 28 16 00-0041 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	912.62	223.40
26 28 16 00-0042 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,540.28	349.82
26 28 16 00-0043 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,325.52	574.18
26 28 16 00-0044 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,347.49	804.35
26 28 16 00-0045 EA 800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,776.46	1,013.27
26 28 16 00-0046 EA 1,200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,800.96	1,158.02
26 28 16 00-0047 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0003)</small>		
26 28 16 00-0048 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	678.90	167.43
26 28 16 00-0049 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	863.14	223.40
26 28 16 00-0050 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,252.91	251.38
26 28 16 00-0051 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,850.10	383.12
26 28 16 00-0052 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,052.88	618.58
26 28 16 00-0053 EA 600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,544.46	893.61
26 28 16 00-0054 EA 800 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,365.79	1,061.52



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 28 16 00-0055	EA 1,200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	13,043.63	1,206.27
	26 28 16 00-0056	Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches		
	26 28 16 00-0057	240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0056)</small>		
	26 28 16 00-0058	EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	330.17	139.64
	26 28 16 00-0059	EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	509.18	194.25
	26 28 16 00-0060	EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	694.47	223.40
	26 28 16 00-0061	EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,089.08	357.45
	26 28 16 00-0062	EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,176.69	595.70
	26 28 16 00-0063	EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,532.43	812.35
	26 28 16 00-0064	EA 800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,015.27	965.01
	26 28 16 00-0065	EA 1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,598.34	1,126.27
	26 28 16 00-0066	600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0056)</small>		
	26 28 16 00-0067	EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	364.67	154.12
	26 28 16 00-0068	EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	576.25	218.00
	26 28 16 00-0069	EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	784.24	248.21
	26 28 16 00-0070	EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,217.64	388.52
	26 28 16 00-0071	EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,341.80	638.27
	26 28 16 00-0072	EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,906.70	893.51
	26 28 16 00-0073	EA 800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,544.67	965.01
	26 28 16 00-0074	EA 1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,323.33	1,126.27
	26 28 16 00-0075	240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0056)</small>		
	26 28 16 00-0076	EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	388.47	125.45
	26 28 16 00-0077	EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	590.28	174.67
	26 28 16 00-0078	EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	787.74	201.21
	26 28 16 00-0079	EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,239.07	321.83
	26 28 16 00-0080	EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,454.15	536.07
	26 28 16 00-0081	EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,923.40	731.00
	26 28 16 00-0082	EA 800 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,655.47	868.52
	26 28 16 00-0083	EA 1,200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,643.72	1,013.27
	26 28 16 00-0084	480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0056)</small>		
	26 28 16 00-0085	EA 30 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	424.21	138.48
	26 28 16 00-0086	EA 60 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	650.10	196.38
	26 28 16 00-0087	EA 100 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	859.96	223.40
	26 28 16 00-0088	EA 200 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,337.55	349.82
	26 28 16 00-0089	EA 400 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,629.43	574.18
	26 28 16 00-0090	EA 600 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,245.41	804.35
	26 28 16 00-0091	EA 800 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,005.55	868.52

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0092		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0056)</small>		
26 28 16 00-0093	EA	30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	450.33	138.68
26 28 16 00-0094	EA	60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	694.63	196.19
26 28 16 00-0095	EA	100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	932.39	223.40
26 28 16 00-0096	EA	200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,449.11	349.62
26 28 16 00-0097	EA	400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,785.48	574.37
26 28 16 00-0098	EA	600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,707.25	804.15
26 28 16 00-0099	EA	800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,532.94	868.52
26 28 16 00-0100	EA	1,200 Amp, 600 Volt Class, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,824.95	1,013.27
26 28 16 00-0101		240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0056)</small>		
26 28 16 00-0102	EA	30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	639.30	125.64
26 28 16 00-0103	EA	60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	778.40	174.86
26 28 16 00-0104	EA	100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,175.74	201.02
26 28 16 00-0105	EA	200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,769.72	321.64
26 28 16 00-0106		480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0056)</small>		
26 28 16 00-0107	EA	30 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	693.03	138.48
26 28 16 00-0108	EA	60 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	851.68	196.38
26 28 16 00-0109	EA	100 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,275.69	223.40
26 28 16 00-0110	EA	200 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,906.12	349.82
26 28 16 00-0111		600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0056)</small>		
26 28 16 00-0112	EA	30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	765.71	138.68
26 28 16 00-0113	EA	60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	931.85	196.19
26 28 16 00-0114	EA	100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,419.87	223.40
26 28 16 00-0115	EA	200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,116.15	349.62
26 28 16 00-0116		General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0002)</small> Note: Includes fuses and neutral bar.		
26 28 16 00-0117		240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0116)</small>		
26 28 16 00-0118	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	239.74	83.96
26 28 16 00-0119	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	323.27	101.03
26 28 16 00-0120	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	487.42	118.12
26 28 16 00-0121	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	893.74	186.35
26 28 16 00-0122	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,085.10	289.03
26 28 16 00-0123	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,869.73	427.79
26 28 16 00-0124		240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0116)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0125 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	335.50	131.91
26 28 16 00-0126 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	470.57	174.86
26 28 16 00-0127 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	639.69	194.25
26 28 16 00-0128 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,130.04	304.07
26 28 16 00-0129 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,507.94	499.49
26 28 16 00-0130 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,416.50	699.25
26 28 16 00-0131 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0116)</small>		
26 28 16 00-0132 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	369.41	131.91
26 28 16 00-0133 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	525.25	174.86
26 28 16 00-0134 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	689.45	194.25
26 28 16 00-0135 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,255.40	304.07
26 28 16 00-0136 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,722.20	499.49
26 28 16 00-0137 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,552.32	699.25
26 28 16 00-0138 General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0002)</small>		
26 28 16 00-0139 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0138)</small>		
26 28 16 00-0140 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	328.12	116.76
26 28 16 00-0141 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	431.17	134.24
26 28 16 00-0142 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	950.43	214.52
26 28 16 00-0143 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,011.26	357.06
26 28 16 00-0144 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,447.09	486.57
26 28 16 00-0145 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0138)</small>		
26 28 16 00-0146 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	309.71	109.24
26 28 16 00-0147 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	424.96	151.99
26 28 16 00-0148 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	631.52	174.86
26 28 16 00-0149 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,081.39	279.76
26 28 16 00-0150 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,230.35	466.30
26 28 16 00-0151 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,746.63	635.56
26 28 16 00-0152 NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 00-0001)</small>		
26 28 16 00-0153 Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 00-0152)</small>		
Note: With fuses, neutral bar, and hub if required.		
26 28 16 00-0154 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 00-0153)</small>		
26 28 16 00-0155 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	490.46	113.39
26 28 16 00-0156 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	768.52	136.07
26 28 16 00-0157 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	957.41	158.26
26 28 16 00-0158 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,403.95	241.25
26 28 16 00-0159 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,063.42	386.00

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0160 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,326.30	514.84
26 28 16 00-0161 EA 800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,934.84	579.01
26 28 16 00-0162 EA 1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,490.17	675.51
26 28 16 00-0163 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26		
<small>26 16 00-0153)</small>		
26 28 16 00-0164 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	832.48	151.12
26 28 16 00-0165 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	992.70	185.29
26 28 16 00-0166 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,395.73	212.79
26 28 16 00-0167 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,971.61	319.13
26 28 16 00-0168 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,245.04	522.17
26 28 16 00-0169 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,742.57	718.07
26 28 16 00-0170 EA 800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,323.07	826.83
26 28 16 00-0171 EA 1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,478.76	930.76
26 28 16 00-0172 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26		
<small>26 16 00-0153)</small>		
26 28 16 00-0173 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	634.66	178.52
26 28 16 00-0174 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	994.94	236.42
26 28 16 00-0175 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,192.39	259.59
26 28 16 00-0176 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,772.64	401.93
26 28 16 00-0177 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,780.84	670.21
26 28 16 00-0178 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,247.63	893.61
26 28 16 00-0179 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26		
<small>26 16 00-0153)</small>		
26 28 16 00-0180 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	955.05	211.63
26 28 16 00-0181 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,141.34	259.40
26 28 16 00-0182 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,515.00	297.80
26 28 16 00-0183 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,204.51	446.80
26 28 16 00-0184 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,587.03	731.10
26 28 16 00-0185 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,202.48	1,005.26
26 28 16 00-0186 EA 800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,541.34	1,158.02
26 28 16 00-0187 EA 1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,793.58	1,302.77
26 28 16 00-0188 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26		
<small>26 16 00-0153)</small>		
26 28 16 00-0189 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	692.17	178.52
26 28 16 00-0190 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	996.61	236.42
26 28 16 00-0191 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,273.24	259.59
26 28 16 00-0192 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,826.57	401.93
26 28 16 00-0193 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,830.31	670.21
26 28 16 00-0194 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,791.81	893.61



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0195 EA 800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,210.03	1,013.27
26 28 16 00-0196 EA 1,200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,945.92	1,158.02
26 28 16 00-0197 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 00-0153)		
26 28 16 00-0198 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	988.04	211.82
26 28 16 00-0199 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,178.43	259.59
26 28 16 00-0200 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,597.45	297.71
26 28 16 00-0201 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,258.10	446.80
26 28 16 00-0202 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,780.79	731.00
26 28 16 00-0203 EA 600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,425.10	1,005.06
26 28 16 00-0204 EA 800 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,242.33	1,158.02
26 28 16 00-0205 EA 1,200 Amp, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,717.58	1,302.77
26 28 16 00-0206 Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 00-0152)		
26 28 16 00-0207 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 00-0206)		
26 28 16 00-0208 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	463.44	99.30
26 28 16 00-0209 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	750.35	137.51
26 28 16 00-0210 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	980.59	157.68
26 28 16 00-0211 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,316.45	255.34
26 28 16 00-0212 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,894.15	425.96
26 28 16 00-0213 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,223.83	567.91
26 28 16 00-0214 EA 800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,342.89	675.80
26 28 16 00-0215 EA 1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,982.76	772.30
26 28 16 00-0216 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 00-0206)		
26 28 16 00-0217 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	521.17	109.43
26 28 16 00-0218 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	849.66	153.14
26 28 16 00-0219 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,105.93	172.93
26 28 16 00-0220 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,457.12	268.09
26 28 16 00-0221 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,275.13	446.80
26 28 16 00-0222 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,635.47	595.70
26 28 16 00-0223 EA 800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,894.15	707.94
26 28 16 00-0224 EA 1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,703.70	804.15
26 28 16 00-0225 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 00-0206)		
26 28 16 00-0226 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	562.72	148.91
26 28 16 00-0227 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	887.81	206.23
26 28 16 00-0228 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,138.27	236.52
26 28 16 00-0229 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,571.74	383.02
26 28 16 00-0230 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,361.51	638.84

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0231 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,872.85	851.63
26 28 16 00-0232 EA 800 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	9,109.26	1,013.27
26 28 16 00-0233 EA 1,200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,012.87	1,158.02
26 28 16 00-0234 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 00-0206)</small>		
26 28 16 00-0235 EA 30 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	612.04	164.06
26 28 16 00-0236 EA 60 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	968.89	229.77
26 28 16 00-0237 EA 100 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,231.57	259.40
26 28 16 00-0238 EA 200 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,667.61	402.12
26 28 16 00-0239 EA 400 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,572.81	670.11
26 28 16 00-0240 EA 600 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,253.93	893.51
26 28 16 00-0241 EA 800 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	9,711.48	1,061.52
26 28 16 00-0242 EA 1,200 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,800.42	1,206.27
26 28 16 00-0243 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 00-0206)</small>		
26 28 16 00-0244 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	349.70	164.06
26 28 16 00-0245 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,002.83	229.77
26 28 16 00-0246 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,278.88	259.40
26 28 16 00-0247 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,725.19	402.12
26 28 16 00-0248 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,721.89	670.11
26 28 16 00-0249 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,231.15	893.51
26 28 16 00-0250 EA 800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	9,698.71	1,061.52
26 28 16 00-0251 EA 1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,783.06	1,206.27
26 28 16 00-0252 General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 00-0152)</small>		
Note: With fuses, neutral bar, and hub if required.		
26 28 16 00-0253 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 00-0252)</small>		
26 28 16 00-0254 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	307.58	98.63
26 28 16 00-0255 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	428.59	118.31
26 28 16 00-0256 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	559.08	137.61
26 28 16 00-0257 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,127.76	209.79
26 28 16 00-0258 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,712.84	335.64
26 28 16 00-0259 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,770.31	447.77
26 28 16 00-0260 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 00-0252)</small>		
26 28 16 00-0261 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	421.61	155.47
26 28 16 00-0262 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	603.56	205.65
26 28 16 00-0263 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	734.69	225.62
26 28 16 00-0264 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,408.17	349.62
26 28 16 00-0265 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,208.43	582.68



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0266 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,435.87	777.22
26 28 16 00-0267 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 00-0252)		
26 28 16 00-0268 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	469.13	155.37
26 28 16 00-0269 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	651.29	205.65
26 28 16 00-0270 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	888.19	225.62
26 28 16 00-0271 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,507.29	349.62
26 28 16 00-0272 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,272.10	582.77
26 28 16 00-0273 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,932.60	777.22
26 28 16 00-0274 EA 800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,418.51	880.48
26 28 16 00-0275 General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 00-0152)		
26 28 16 00-0276 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 00-0275)		
26 28 16 00-0277 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	276.86	86.37
26 28 16 00-0278 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	447.48	119.57
26 28 16 00-0279 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	473.33	137.13
26 28 16 00-0280 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,152.57	221.96
26 28 16 00-0281 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,782.74	370.37
26 28 16 00-0282 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,864.60	493.80
26 28 16 00-0283 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 00-0275)		
26 28 16 00-0284 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	431.89	129.51
26 28 16 00-0285 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	619.90	179.30
26 28 16 00-0286 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	892.93	205.65
26 28 16 00-0287 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,529.77	333.03
26 28 16 00-0288 NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 00-0001)		
26 28 16 00-0289 Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 00-0288)		
Note: With fuses and neutral bar (stainless steel).		
26 28 16 00-0290 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 00-0289)		
26 28 16 00-0291 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,249.75	96.51
26 28 16 00-0292 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,501.37	116.28
26 28 16 00-0293 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,036.97	135.87
26 28 16 00-0294 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	4,207.28	214.42
26 28 16 00-0295 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	8,526.83	332.74
26 28 16 00-0296 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	12,260.17	491.97
26 28 16 00-0297 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 00-0289)		
26 28 16 00-0298 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,582.07	107.22
26 28 16 00-0299 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,761.87	129.12

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0300 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,284.59	150.93
26 28 16 00-0301 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,648.51	238.36
26 28 16 00-0302 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,861.45	369.99
26 28 16 00-0303 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,710.16	546.59
26 28 16 00-0304 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0289)</small>		
26 28 16 00-0305 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,415.50	151.70
26 28 16 00-0306 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,776.96	201.02
26 28 16 00-0307 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,348.76	223.40
26 28 16 00-0308 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,768.59	349.62
26 28 16 00-0309 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,270.24	574.37
26 28 16 00-0310 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,225.39	804.15
26 28 16 00-0311 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0289)</small>		
26 28 16 00-0312 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,706.95	167.52
26 28 16 00-0313 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,955.02	223.40
26 28 16 00-0314 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,494.57	251.29
26 28 16 00-0315 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,950.61	382.92
26 28 16 00-0316 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,580.30	618.58
26 28 16 00-0317 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,635.77	893.51
26 28 16 00-0318 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0289)</small>		
26 28 16 00-0319 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,684.39	151.70
26 28 16 00-0320 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,113.10	201.02
26 28 16 00-0321 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,021.39	223.40
26 28 16 00-0322 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,688.39	349.62
26 28 16 00-0323 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,080.51	574.37
26 28 16 00-0324 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,713.14	804.15
26 28 16 00-0325 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0289)</small>		
26 28 16 00-0326 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,024.68	167.52
26 28 16 00-0327 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,315.32	223.40
26 28 16 00-0328 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,181.16	251.29
26 28 16 00-0329 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,878.09	382.92
26 28 16 00-0330 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,414.99	618.58
26 28 16 00-0331 EA 600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,157.43	893.51
26 28 16 00-0332 Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0288)</small>		
26 28 16 00-0333 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0332)</small>		
26 28 16 00-0334 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,200.13	96.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0335 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,465.20	134.24
26 28 16 00-0336 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,732.28	154.41
26 28 16 00-0337 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,799.45	246.65
26 28 16 00-0338 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,907.05	410.71
26 28 16 00-0339 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,885.01	559.52
26 28 16 00-0340 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0332)</small>		
26 28 16 00-0341 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,363.98	106.44
26 28 16 00-0342 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,668.62	150.54
26 28 16 00-0343 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,112.80	171.58
26 28 16 00-0344 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,314.63	268.09
26 28 16 00-0345 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,837.42	441.21
26 28 16 00-0346 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,253.60	617.61
26 28 16 00-0347 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0332)</small>		
26 28 16 00-0348 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,258.43	125.64
26 28 16 00-0349 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,527.27	174.86
26 28 16 00-0350 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,598.75	201.02
26 28 16 00-0351 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,066.81	321.64
26 28 16 00-0352 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,378.33	536.16
26 28 16 00-0353 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,516.82	731.10
26 28 16 00-0354 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0332)</small>		
26 28 16 00-0355 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,428.31	138.68
26 28 16 00-0356 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,759.90	196.19
26 28 16 00-0357 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,216.44	223.40
26 28 16 00-0358 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,477.67	349.62
26 28 16 00-0359 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,907.71	574.37
26 28 16 00-0360 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,956.56	804.15
26 28 16 00-0361 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0332)</small>		
26 28 16 00-0362 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,718.14	125.64
26 28 16 00-0363 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,066.47	174.86
26 28 16 00-0364 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,599.95	201.02
26 28 16 00-0365 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,021.10	321.64
26 28 16 00-0366 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0332)</small>		
26 28 16 00-0367 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,953.68	138.68
26 28 16 00-0368 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,354.37	196.19

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0369 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,244.32	223.40
26 28 16 00-0370 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,988.14	349.62
26 28 16 00-0371 Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0288)</small>		
26 28 16 00-0372 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0371)</small>		
26 28 16 00-0373 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,273.66	167.43
26 28 16 00-0374 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,600.15	223.40
26 28 16 00-0375 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,634.47	251.38
26 28 16 00-0376 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,046.92	383.12
26 28 16 00-0377 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0371)</small>		
26 28 16 00-0378 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,124.35	138.48
26 28 16 00-0379 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,445.06	196.38
26 28 16 00-0380 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,377.42	223.40
26 28 16 00-0381 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,962.20	349.82
26 28 16 00-0382 Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0288)</small>		
26 28 16 00-0383 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0382)</small>		
26 28 16 00-0384 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,593.58	167.43
26 28 16 00-0385 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,958.14	223.40
26 28 16 00-0386 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,311.48	251.38
26 28 16 00-0387 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0382)</small>		
26 28 16 00-0388 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,427.06	138.48
26 28 16 00-0389 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,784.02	196.38
26 28 16 00-0390 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,027.24	223.40
26 28 16 00-0391 NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 00-0001)</small>		
Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.		
26 28 16 00-0392 Heavy Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 00-0391)</small>		
Note: With fuses and neutral bar.		
26 28 16 00-0393 EA 30 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,067.03	193.00
26 28 16 00-0394 EA 60 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,337.17	229.77
26 28 16 00-0395 EA 100 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,593.08	259.40
26 28 16 00-0396 EA 200 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	5,463.88	402.12
26 28 16 00-0397 Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0391)</small>		
26 28 16 00-0398 EA 60 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	1,626.32	229.77
26 28 16 00-0399 EA 100 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	1,900.79	259.40
26 28 16 00-0400 EA 200 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	3,474.92	402.12
26 28 16 00-0401 NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0001)</small>		
26 28 16 00-0402 Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0401)</small>		
Note: With fuses and neutral bar.		
26 28 16 00-0403 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0402)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0404 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	472.09	96.51
26 28 16 00-0405 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	613.97	116.28
26 28 16 00-0406 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	831.87	136.07
26 28 16 00-0407 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,399.22	214.23
26 28 16 00-0408 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,953.53	332.93
26 28 16 00-0409 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,304.32	492.16
26 28 16 00-0410 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0402)</small>		
26 28 16 00-0411 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	729.77	107.12
26 28 16 00-0412 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	757.28	129.31
26 28 16 00-0413 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,081.69	151.02
26 28 16 00-0414 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,692.93	238.36
26 28 16 00-0415 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,654.67	369.60
26 28 16 00-0416 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,181.25	546.68
26 28 16 00-0417 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0402)</small>		
26 28 16 00-0418 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	660.70	151.51
26 28 16 00-0419 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	912.84	201.21
26 28 16 00-0420 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,232.89	223.40
26 28 16 00-0421 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,837.05	349.82
26 28 16 00-0422 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,576.99	574.18
26 28 16 00-0423 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,711.96	804.35
26 28 16 00-0424 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0402)</small>		
26 28 16 00-0425 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	871.01	167.43
26 28 16 00-0426 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	995.07	223.40
26 28 16 00-0427 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,446.67	251.38
26 28 16 00-0428 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,109.83	383.12
26 28 16 00-0429 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,374.44	618.58
26 28 16 00-0430 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	8,160.49	893.61
26 28 16 00-0431 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0402)</small>		
26 28 16 00-0432 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	703.35	151.51
26 28 16 00-0433 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	942.15	201.21
26 28 16 00-0434 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,324.87	223.40
26 28 16 00-0435 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,952.54	349.82
26 28 16 00-0436 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,886.20	574.18
26 28 16 00-0437 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,920.85	804.35
26 28 16 00-0438 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0402)</small>		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0439 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	920.46	167.43
26 28 16 00-0440 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,126.99	223.40
26 28 16 00-0441 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,537.38	251.38
26 28 16 00-0442 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,282.97	383.12
26 28 16 00-0443 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,654.77	618.58
26 28 16 00-0444 EA 600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	8,391.35	893.61
26 28 16 00-0445 Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0401)</small>		
26 28 16 00-0446 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0445)</small>		
26 28 16 00-0447 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	492.85	139.45
26 28 16 00-0448 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	655.17	194.45
26 28 16 00-0449 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	862.81	223.40
26 28 16 00-0450 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,237.18	357.54
26 28 16 00-0451 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,687.95	595.90
26 28 16 00-0452 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,233.74	812.54
26 28 16 00-0453 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0445)</small>		
26 28 16 00-0454 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	549.09	153.92
26 28 16 00-0455 EA 60 Amp, Non-Fused, NEMA 12, Heavy Duty Disconnect Switch, 600 Volt, 1 Phase.....	728.49	218.09
26 28 16 00-0456 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	961.52	248.01
26 28 16 00-0457 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,344.25	388.42
26 28 16 00-0458 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,847.72	638.36
26 28 16 00-0459 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,677.61	893.61
26 28 16 00-0460 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0445)</small>		
26 28 16 00-0461 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	635.06	125.45
26 28 16 00-0462 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	837.73	174.67
26 28 16 00-0463 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,108.14	201.21
26 28 16 00-0464 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,589.72	321.83
26 28 16 00-0465 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,316.15	536.07
26 28 16 00-0466 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,206.65	731.00
26 28 16 00-0467 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0445)</small>		
26 28 16 00-0468 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	625.25	138.48
26 28 16 00-0469 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	907.60	196.38
26 28 16 00-0470 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,188.83	223.40
26 28 16 00-0471 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,577.38	349.82
26 28 16 00-0472 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,337.90	574.18
26 28 16 00-0473 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	6,184.38	804.35
26 28 16 00-0474 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0445)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0475 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	757.10	125.45
26 28 16 00-0476 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	907.13	174.67
26 28 16 00-0477 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,392.47	201.21
26 28 16 00-0478 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,208.76	321.83
26 28 16 00-0479 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,955.75	410.13
26 28 16 00-0480 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0445)</small>		
26 28 16 00-0481 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	788.50	138.48
26 28 16 00-0482 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	990.05	196.38
26 28 16 00-0483 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,489.77	223.40
26 28 16 00-0484 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,274.08	349.82
26 28 16 00-0485 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,232.30	540.41
26 28 16 00-0486 Double Throw Safety Switches <small>(26 28 16 00-0001)</small>		
26 28 16 00-0487 NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0486)</small>		
26 28 16 00-0488 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0487)</small>		
26 28 16 00-0489 EA 30 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	593.37	124.01
26 28 16 00-0490 EA 60 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	871.11	162.12
26 28 16 00-0491 EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,217.89	211.82
26 28 16 00-0492 EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,622.27	275.51
26 28 16 00-0493 EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,832.80	344.51
26 28 16 00-0494 EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,953.97	552.47
26 28 16 00-0495 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0487)</small>		
26 28 16 00-0496 EA 30 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	753.14	173.70
26 28 16 00-0497 EA 60 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,047.28	226.78
26 28 16 00-0498 EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,564.94	296.74
26 28 16 00-0499 EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,285.32	386.00
26 28 16 00-0500 EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,283.49	482.51
26 28 16 00-0501 EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,398.13	772.01
26 28 16 00-0502 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0487)</small>		
26 28 16 00-0503 EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	997.20	217.13
26 28 16 00-0504 EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,442.54	283.72
26 28 16 00-0505 EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,526.21	370.56
26 28 16 00-0506 EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,453.90	481.55
26 28 16 00-0507 EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,867.20	603.14
26 28 16 00-0508 EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,740.18	966.47
26 28 16 00-0509 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0487)</small>		
26 28 16 00-0510 EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	999.71	162.12
26 28 16 00-0511 EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,495.10	211.82
26 28 16 00-0512 EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,194.58	275.51
26 28 16 00-0513 EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,097.98	344.51
26 28 16 00-0514 EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,546.66	552.47
26 28 16 00-0515 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0487)</small>		
26 28 16 00-0516 EA 60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,128.89	226.78
26 28 16 00-0517 EA 100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,664.47	296.74
26 28 16 00-0518 EA 200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,414.62	386.00
26 28 16 00-0519 EA 400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,373.75	482.51
26 28 16 00-0520 EA 600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,987.03	772.01

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0521 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0487)</small>		
26 28 16 00-0522 EA 60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,523.08	283.72
26 28 16 00-0523 EA 100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,642.53	370.56
26 28 16 00-0524 EA 200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,694.53	481.55
26 28 16 00-0525 EA 400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,379.78	603.14
26 28 16 00-0526 EA 600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,313.88	966.47
26 28 16 00-0527 NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0486)</small>		
26 28 16 00-0528 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0527)</small>		
26 28 16 00-0529 EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	1,509.38	211.82
26 28 16 00-0530 EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,411.40	275.51
26 28 16 00-0531 EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	11,040.08	344.51
26 28 16 00-0532 EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	19,004.63	552.47
26 28 16 00-0533 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0527)</small>		
26 28 16 00-0534 EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	1,982.93	296.26
26 28 16 00-0535 EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,179.16	385.52
26 28 16 00-0536 EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	11,413.38	482.51
26 28 16 00-0537 EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	12,463.17	773.46
26 28 16 00-0538 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0527)</small>		
26 28 16 00-0539 EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	1,894.86	217.23
26 28 16 00-0540 EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,353.14	283.52
26 28 16 00-0541 EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,293.00	370.47
26 28 16 00-0542 EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,749.48	481.74
26 28 16 00-0543 EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	8,012.77	603.14
26 28 16 00-0544 EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	9,409.87	966.56
26 28 16 00-0545 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0527)</small>		
26 28 16 00-0546 EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	1,275.93	162.12
26 28 16 00-0547 EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	1,933.68	211.82
26 28 16 00-0548 EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,493.80	275.51
26 28 16 00-0549 EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	6,678.26	344.51
26 28 16 00-0550 EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	8,946.84	552.47
26 28 16 00-0551 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0527)</small>		
26 28 16 00-0552 EA 60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	1,455.83	226.78
26 28 16 00-0553 EA 100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,182.71	296.26
26 28 16 00-0554 EA 200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,868.71	385.52
26 28 16 00-0555 EA 400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	7,269.27	482.51
26 28 16 00-0556 EA 600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	9,799.41	773.46
26 28 16 00-0557 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0527)</small>		
26 28 16 00-0558 EA 60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,371.78	283.52
26 28 16 00-0559 EA 100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,301.55	370.47
26 28 16 00-0560 EA 200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,868.18	481.74
26 28 16 00-0561 EA 400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	7,998.75	603.14
26 28 16 00-0562 EA 600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	9,487.12	966.56
26 28 16 00-0563 NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0486)</small>		
26 28 16 00-0564 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0563)</small>		
26 28 16 00-0565 EA 30 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,504.48	124.10
26 28 16 00-0566 EA 60 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,709.28	162.02
26 28 16 00-0567 EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,940.90	211.73
26 28 16 00-0568 EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,664.49	275.32
26 28 16 00-0569 EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,937.79	344.61
26 28 16 00-0570 EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,252.80	552.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0571 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0563)</small>		
26 28 16 00-0572 EA 30 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,736.33	173.70
26 28 16 00-0573 EA 60 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,058.84	226.78
26 28 16 00-0574 EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,449.80	296.26
26 28 16 00-0575 EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,408.91	385.52
26 28 16 00-0576 EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,160.64	482.51
26 28 16 00-0577 EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,173.18	773.46
26 28 16 00-0578 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0563)</small>		
26 28 16 00-0579 EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,583.94	217.23
26 28 16 00-0580 EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,030.25	283.52
26 28 16 00-0581 EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,150.20	370.47
26 28 16 00-0582 EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,633.00	481.74
26 28 16 00-0583 EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	10,358.29	603.14
26 28 16 00-0584 EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	12,921.65	966.56
26 28 16 00-0585 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0563)</small>		
26 28 16 00-0586 EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,242.63	162.02
26 28 16 00-0587 EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,368.14	211.73
26 28 16 00-0588 EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,459.72	275.32
26 28 16 00-0589 EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,423.06	344.61
26 28 16 00-0590 EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,646.16	552.28
26 28 16 00-0591 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0563)</small>		
26 28 16 00-0592 EA 60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,473.21	226.78
26 28 16 00-0593 EA 100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,639.95	296.26
26 28 16 00-0594 EA 200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,885.31	385.52
26 28 16 00-0595 EA 400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,000.39	482.51
26 28 16 00-0596 EA 600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,482.58	773.46
26 28 16 00-0597 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0563)</small>		
26 28 16 00-0598 EA 60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,060.63	283.52
26 28 16 00-0599 EA 100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,374.34	370.47
26 28 16 00-0600 EA 200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,765.11	481.74
26 28 16 00-0601 EA 400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	10,642.65	603.14
26 28 16 00-0602 EA 600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	13,298.57	966.56
26 28 16 00-0603 Removal And Reinstallation Of Disconnect Switches <small>(26 28 16 00-0001)</small>		
Note: Includes storage and cleaning.		
26 28 16 00-0604 EA Removal And Reinstallation Of Up To 100 Amp Safety Disconnect Switch.....	482.51	
26 28 16 00-0605 EA Removal And Reinstallation Of >100 To 200 Amp Safety Disconnect Switch	627.29	
26 28 16 00-0606 EA Removal And Reinstallation Of >200 To 300 Amp Safety Disconnect Switch	699.69	
26 28 16 00-0607 EA Removal And Reinstallation Of >300 To 400 Amp Safety Disconnect Switch	820.32	
26 28 16 00-0608 Bolted Contact Switches <small>(26 28 16)</small>		
Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.		
26 28 16 00-0609 Electrical Trip, Bolted Contact Switches <small>(26 28 16 00-0608)</small>		
26 28 16 00-0610 Top Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 00-0609)</small>		
26 28 16 00-0611 EA 800 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480).....	6,152.13	965.01
26 28 16 00-0612 EA 1,200 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480).....	6,719.29	1,158.02
26 28 16 00-0613 EA 1,600 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480).....	7,359.59	1,351.03
26 28 16 00-0614 EA 2,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480).....	7,832.70	1,544.03
26 28 16 00-0615 EA 2,500 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480).....	8,842.26	1,737.03
26 28 16 00-0616 EA 3,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480).....	10,959.62	1,930.03
26 28 16 00-0617 EA 4,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480).....	14,623.00	2,316.04
26 28 16 00-0618 Bottom Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 00-0609)</small>		
26 28 16 00-0619 EA 800 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480)	6,490.04	965.01
26 28 16 00-0620 EA 1,200 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480)	7,123.39	1,158.02
26 28 16 00-0621 EA 1,600 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480)	7,760.21	1,351.03
26 28 16 00-0622 EA 2,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480)	8,407.49	1,544.03
26 28 16 00-0623 EA 2,500 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480)	9,462.34	1,737.03
26 28 16 00-0624 EA 3,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480)	12,123.13	1,930.03
26 28 16 00-0625 EA 4,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480)	15,835.29	2,316.04

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 28 16 00-0626	Manually Operated, Bolted Contact Switches <small>(26 28 16 00-0608)</small>		
26 28 16 00-0627	Top Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 00-0626)</small>		
26 28 16 00-0628	EA 800 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480)	4,633.29	965.01
26 28 16 00-0629	EA 1,200 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480)	5,218.56	1,158.02
26 28 16 00-0630	EA 1,600 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480)	5,832.39	1,351.03
26 28 16 00-0631	EA 2,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480)	6,442.06	1,544.03
26 28 16 00-0632	EA 2,500 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480)	7,086.54	1,737.03
26 28 16 00-0633	EA 3,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480)	9,203.89	1,930.03
26 28 16 00-0634	EA 4,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480)	12,825.47	2,316.04

26 28 16 00-0635	Bottom Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 00-0626)</small>		
26 28 16 00-0636	EA 800 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480)	4,856.94	965.01
26 28 16 00-0637	EA 1,200 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480)	5,556.47	1,158.02
26 28 16 00-0638	EA 1,600 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480)	6,159.85	1,351.03
26 28 16 00-0639	EA 2,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480)	6,874.72	1,544.03
26 28 16 00-0640	EA 2,500 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480)	7,629.98	1,737.03
26 28 16 00-0641	EA 3,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480)	10,280.32	1,930.03
26 28 16 00-0642	EA 4,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480)	13,954.15	2,316.04

26 29 Low-Voltage Controllers (26 20)

26 29 13 Enclosed Controllers (26 29)

26 29 13 13 Across-The-Line Motor Controllers (26 29 13)

26 29 13 13-0001	Manual Motor Starters <small>(26 29 13 13)</small>		
26 29 13 13-0002	Fractional HP Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0003	EA NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1)	198.62	48.32
	<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.83	
	<i>For Oversized Enclosure, Add</i>	28.46	
	<i>For Pilot Light, Add</i>	41.74	
26 29 13 13-0004	EA NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2)	260.34	62.82
	<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.83	
	<i>For Oversized Enclosure, Add</i>	28.46	
	<i>For Pilot Light, Add</i>	41.74	
26 29 13 13-0005	EA NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3)	227.07	48.32
	<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.83	
	<i>For Oversized Enclosure, Add</i>	28.46	
	<i>For Pilot Light, Add</i>	41.74	
26 29 13 13-0006	EA NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4)	288.79	62.82
	<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.83	
	<i>For Oversized Enclosure, Add</i>	28.46	
	<i>For Pilot Light, Add</i>	41.74	
26 29 13 13-0007	EA NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5)	210.95	48.32
	<i>For Oversized Enclosure, Add</i>	28.46	
26 29 13 13-0008	EA NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6)	276.46	62.82
	<i>For Oversized Enclosure, Add</i>	28.46	
26 29 13 13-0009	EA NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1)	439.90	57.98
	<i>For Pilot Light, Add</i>	109.08	
26 29 13 13-0010	EA NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2)	504.46	72.48
	<i>For Pilot Light, Add</i>	109.08	
26 29 13 13-0011	EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1)	468.36	57.98
26 29 13 13-0012	EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2)	530.07	72.48

26 29 13 13-0013	Non Reversing Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0014	EA NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1)	157.05	48.32
	<i>Note: NEMA 1 or flush cover plate installation.</i>		
	<i>For Oversize Enclosure, Add</i>	13.73	
	<i>For Pilot Light, Add</i>	65.90	
26 29 13 13-0015	EA NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2)	262.00	62.82
	<i>Note: NEMA 1 or flush cover plate installation.</i>		
	<i>For Oversize Enclosure, Add</i>	13.73	
	<i>For Pilot Light, Add</i>	65.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0016 EA NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5)	177.69	53.15
Note: NEMA 1 or flush cover plate installation.		
<i>For Oversize Enclosure, Add</i>	13.73	
<i>For Pilot Light, Add</i>	65.90	
26 29 13 13-0017 EA NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6)	283.56	67.65
Note: NEMA 1 or flush cover plate installation.		
<i>For Oversize Enclosure, Add</i>	13.73	
<i>For Pilot Light, Add</i>	65.90	
26 29 13 13-0018 EA NEMA 1, Non Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3)	183.59	48.32
Note: NEMA 1 or flush cover plate installation.		
<i>For Oversize Enclosure, Add</i>	13.73	
<i>For Pilot Light, Add</i>	65.90	
26 29 13 13-0019 EA NEMA 1, Non Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4)	289.46	62.82
Note: NEMA 1 or flush cover plate installation.		
<i>For Oversize Enclosure, Add</i>	13.73	
<i>For Pilot Light, Add</i>	65.90	
26 29 13 13-0020 EA NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1)	403.36	57.98
<i>For Pilot Light, Add</i>	104.34	
26 29 13 13-0021 EA NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2)	498.24	72.48
<i>For Pilot Light, Add</i>	104.34	
26 29 13 13-0022 EA NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5)	424.92	62.82
<i>For Pilot Light, Add</i>	104.34	
26 29 13 13-0023 EA NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6)	517.07	77.31
<i>For Pilot Light, Add</i>	104.34	
26 29 13 13-0024 EA NEMA 3R, 7 And 9, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1)	428.99	57.98
26 29 13 13-0025 EA NEMA 3R, 7 And 9, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2)	531.19	72.48
26 29 13 13-0026 EA Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1)	115.24	33.82
<i>For Pilot Light, Add</i>	65.90	
26 29 13 13-0027 EA Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2)	220.20	48.32
<i>For Pilot Light, Add</i>	65.90	
26 29 13 13-0028 EA Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5)	135.89	38.66
<i>For Pilot Light, Add</i>	65.90	
26 29 13 13-0029 EA Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6)	240.84	53.15
<i>For Pilot Light, Add</i>	65.90	
26 29 13 13-0030 Reversing Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0031 EA NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11)	436.63	86.97
<i>For Pilot Light, Add</i>	106.17	
26 29 13 13-0032 EA NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22)	635.56	115.97
<i>For Pilot Light, Add</i>	106.17	
26 29 13 13-0033 Two Speed Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0034 EA NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11)	436.63	86.97
26 29 13 13-0035 EA NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22)	635.56	115.97
26 29 13 13-0036 Non-Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0037 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1)	407.19	57.98
26 29 13 13-0038 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1)	407.19	57.98
26 29 13 13-0039 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW11)	859.04	67.65
26 29 13 13-0040 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1)	859.04	67.65
26 29 13 13-0041 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1)	1,128.42	67.65
26 29 13 13-0042 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1)	520.41	67.65
26 29 13 13-0043 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1)	349.73	43.49
26 29 13 13-0044 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1)	485.14	62.82

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0045 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1).....	485.14	62.82
26 29 13 13-0046 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11).....	1,030.90	72.48
26 29 13 13-0047 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1).....	1,030.90	72.48
26 29 13 13-0048 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1).....	1,321.15	72.48
26 29 13 13-0049 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1).....	598.37	72.48
26 29 13 13-0050 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO1).....	427.70	48.32
26 29 13 13-0051 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2).....	641.83	67.65
26 29 13 13-0052 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2).....	641.83	67.65
26 29 13 13-0053 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12).....	1,228.39	77.31
26 29 13 13-0054 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2).....	1,228.39	77.31
26 29 13 13-0055 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2).....	1,506.31	77.31
26 29 13 13-0056 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2).....	757.92	77.31
26 29 13 13-0057 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2).....	587.22	53.15
26 29 13 13-0058 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2).....	504.00	72.48
26 29 13 13-0059 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2).....	504.00	72.48
26 29 13 13-0060 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12).....	955.87	82.14
26 29 13 13-0061 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2).....	955.87	82.14
26 29 13 13-0062 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2).....	1,232.84	82.14
26 29 13 13-0063 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2).....	618.19	82.14
26 29 13 13-0064 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2).....	449.41	57.98
26 29 13 13-0065 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3).....	581.97	77.31
26 29 13 13-0066 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3).....	581.97	77.31
26 29 13 13-0067 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13).....	1,127.73	86.97
26 29 13 13-0068 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3).....	1,127.73	86.97
26 29 13 13-0069 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3).....	1,424.62	86.97
26 29 13 13-0070 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3).....	695.20	86.97
26 29 13 13-0071 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3).....	524.51	62.82
26 29 13 13-0072 Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0073 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1).....	1,197.51	101.47
26 29 13 13-0074 EA NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1).....	1,197.51	101.47
26 29 13 13-0075 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1).....	1,058.89	72.48
26 29 13 13-0076 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1).....	1,418.87	111.13
26 29 13 13-0077 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1).....	1,280.27	82.14
26 29 13 13-0078 Two Speed Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0079 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1).....	1,197.51	101.47
26 29 13 13-0080 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1).....	1,058.89	72.48
26 29 13 13-0081 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1).....	1,418.87	111.13
26 29 13 13-0082 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1).....	1,280.27	82.14
26 29 13 13-0083 Magnetic Contactors/Starters (26 29 13 13)		
26 29 13 13-0084 Non Reversing, Magnetic Contactors (26 29 13 13-0083)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0085 Open Enclosure, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0086 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO11).....	465.51	96.64
26 29 13 13-0087 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO12).....	524.68	106.30
26 29 13 13-0088 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO5).....	505.35	96.64
26 29 13 13-0089 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO1).....	565.47	106.30
26 29 13 13-0090 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO2).....	624.62	115.97
26 29 13 13-0091 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO3).....	789.80	144.95
26 29 13 13-0092 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO4).....	996.70	173.95
26 29 13 13-0093 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO5).....	591.08	106.30
26 29 13 13-0094 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO1).....	650.23	115.97
26 29 13 13-0095 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO2).....	711.30	125.63
26 29 13 13-0096 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO3).....	906.41	169.11
26 29 13 13-0097 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO4).....	1,112.37	198.11
26 29 13 13-0098 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO1).....	1,016.37	115.97
26 29 13 13-0099 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO2).....	1,126.53	144.95
26 29 13 13-0100 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO3).....	1,466.93	193.28
26 29 13 13-0101 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO1).....	1,532.50	144.95
26 29 13 13-0102 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO2).....	1,738.22	193.28
26 29 13 13-0103 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO3).....	2,212.37	241.60
26 29 13 13-0104 EA Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO4).....	3,174.09	289.92
26 29 13 13-0105 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO1).....	3,482.46	241.60
26 29 13 13-0106 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO2).....	3,822.89	289.92
26 29 13 13-0107 EA Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO3).....	5,188.66	338.24
26 29 13 13-0108 EA Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO1).....	7,079.22	289.92
26 29 13 13-0109 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO2).....	7,840.66	386.55
26 29 13 13-0110 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHO2).....	20,451.95	579.84
26 29 13 13-0111 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJO2).....	29,273.63	869.75
26 29 13 13-0112 NEMA 1, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0113 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG11).....	494.91	96.64
26 29 13 13-0114 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG12).....	554.08	106.30
26 29 13 13-0115 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG5).....	534.75	96.64
26 29 13 13-0116 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG1).....	595.82	106.30
26 29 13 13-0117 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG2).....	654.98	115.97
26 29 13 13-0118 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG3).....	822.05	144.95
26 29 13 13-0119 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG4).....	1,029.90	173.95
26 29 13 13-0120 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG5).....	622.38	106.30
26 29 13 13-0121 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG1).....	683.43	115.97
26 29 13 13-0122 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG2).....	742.60	125.63
26 29 13 13-0123 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG3).....	938.66	169.11
26 29 13 13-0124 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG4).....	1,143.67	198.11
26 29 13 13-0125 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG1).....	1,156.75	115.97

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0126 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG2)	1,267.86	144.95
26 29 13 13-0127 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG3)	1,607.32	193.28
26 29 13 13-0128 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG1)	1,808.53	144.95
26 29 13 13-0129 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG2)	2,013.29	193.28
26 29 13 13-0130 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG3)	2,488.40	241.60
26 29 13 13-0131 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG1)	4,054.43	241.60
26 29 13 13-0132 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG2)	4,394.86	289.92
26 29 13 13-0133 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGG2)	8,883.10	386.55
26 29 13 13-0134 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHG2)	25,036.23	579.84
26 29 13 13-0135 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJG2)	33,871.19	869.75
26 29 13 13-0136 NEMA 12, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0137 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA1)	758.02	106.30
26 29 13 13-0138 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA2)	817.18	115.97
26 29 13 13-0139 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCA2)	904.80	125.63
26 29 13 13-0140 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA1)	1,452.70	115.97
26 29 13 13-0141 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA2)	1,564.75	144.95
26 29 13 13-0142 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA1)	2,159.49	144.95
26 29 13 13-0143 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA2)	2,363.30	193.28
26 29 13 13-0144 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFA2)	5,556.81	289.92
26 29 13 13-0145 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGA2)	11,856.76	386.55
26 29 13 13-0146 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHA2)	28,682.41	579.84
26 29 13 13-0147 NEMA 4/4X, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
Note: Brushed stainless steel enclosure.		
26 29 13 13-0148 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBW12)	1,128.30	115.97
26 29 13 13-0149 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW11)	1,170.03	115.97
26 29 13 13-0150 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW12)	1,229.20	125.63
26 29 13 13-0151 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW13)	1,425.26	169.11
26 29 13 13-0152 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDW12)	2,241.06	144.95
26 29 13 13-0153 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEW12)	3,390.57	193.28
26 29 13 13-0154 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFW12)	6,746.28	289.92
26 29 13 13-0155 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGW12)	11,856.76	386.55
26 29 13 13-0156 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHW2)	31,789.82	579.84
26 29 13 13-0157 NEMA 7/9, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
Note: Bolted cast iron enclosure.		
26 29 13 13-0158 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 7/9 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBT2)	2,272.71	154.63
26 29 13 13-0159 Non Reversing, Magnetic Starters <small>(26 29 13 13-0083)</small>		
26 29 13 13-0160 Open Enclosure, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0161 EA Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO11)	559.42	96.64
26 29 13 13-0162 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO12)	578.75	106.30
26 29 13 13-0163 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO1)	625.22	106.30
26 29 13 13-0164 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO2)	691.97	115.97



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0165 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO4)	1,115.27	173.95
26 29 13 13-0166 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO1)	712.84	115.97
26 29 13 13-0167 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO3)	839.35	125.63
26 29 13 13-0168 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO2)	879.19	125.63
26 29 13 13-0169 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO6)	1,102.69	115.97
26 29 13 13-0170 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO1)	1,248.89	144.95
26 29 13 13-0171 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEO1)	1,940.25	193.28
26 29 13 13-0172 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFO1)	4,134.01	289.92
26 29 13 13-0173 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGO1)	9,454.12	386.55
26 29 13 13-0174 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHO2)	21,796.03	579.84
26 29 13 13-0175 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SJO2)	31,390.77	869.75
26 29 13 13-0176 NEMA 1, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0177 EA Size 00, 1 Phase, 2 Pole, .34 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG11)	590.72	96.64
26 29 13 13-0178 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG12)	610.05	106.30
26 29 13 13-0179 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG1)	656.53	106.30
26 29 13 13-0180 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG2)	723.27	115.97
26 29 13 13-0181 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG1)	743.19	115.97
26 29 13 13-0182 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG3)	810.90	125.63
26 29 13 13-0183 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG2)	911.44	125.63
26 29 13 13-0184 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG6)	1,244.02	115.97
26 29 13 13-0185 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG1)	1,390.22	144.95
26 29 13 13-0186 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEG1)	2,216.28	193.28
26 29 13 13-0187 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFG1)	4,705.98	289.92
26 29 13 13-0188 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGG1)	10,499.41	386.55
26 29 13 13-0189 NEMA 12, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0190 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA1)	818.73	106.30
26 29 13 13-0191 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA2)	885.47	115.97
26 29 13 13-0192 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA1)	905.39	115.97
26 29 13 13-0193 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA3)	973.10	125.63
26 29 13 13-0194 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA2)	1,073.64	125.63
26 29 13 13-0195 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA6)	1,540.91	115.97
26 29 13 13-0196 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA1)	1,686.17	144.95
26 29 13 13-0197 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEA1)	2,566.29	193.28
26 29 13 13-0198 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFA1)	5,866.99	289.92
26 29 13 13-0199 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGA1)	13,470.23	386.55
26 29 13 13-0200 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHA2)	32,202.43	579.84
26 29 13 13-0201 NEMA 3R, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0202 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH1)	818.73	106.30
26 29 13 13-0203 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH2)	885.47	115.97
26 29 13 13-0204 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH1)	905.39	115.97

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0205	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH3).....	973.10	125.63
26 29 13 13-0206	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH2).....	1,073.64	125.63
26 29 13 13-0207	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH6).....	1,540.91	115.97
26 29 13 13-0208	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH1).....	1,686.17	144.95
26 29 13 13-0209	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEH1).....	2,566.29	193.28
26 29 13 13-0210	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFH1).....	5,866.99	289.92
26 29 13 13-0211			NEMA 3R/4/4X/7/9, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small> Note: Bolted cast aluminum enclosure.		
26 29 13 13-0212	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT4).....	2,367.93	164.29
26 29 13 13-0213	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR1).....	2,919.98	164.29
26 29 13 13-0214	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR3).....	3,007.60	173.95
26 29 13 13-0215	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDR1).....	4,680.58	193.28
26 29 13 13-0216	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SET43).....	5,642.28	241.60
26 29 13 13-0217	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFT41).....	9,002.73	338.24
26 29 13 13-0218			NEMA 4/4X, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small> Note: Brushed stainless steel enclosure.		
26 29 13 13-0219	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW11).....	1,128.90	106.30
26 29 13 13-0220	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW12).....	1,196.59	115.97
26 29 13 13-0221	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW11).....	1,229.79	115.97
26 29 13 13-0222	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW13).....	1,297.50	125.63
26 29 13 13-0223	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW12).....	1,398.04	125.63
26 29 13 13-0224	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW16).....	2,215.32	115.97
26 29 13 13-0225	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW11).....	3,592.61	193.28
26 29 13 13-0226	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW11).....	7,055.50	289.92
26 29 13 13-0227	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGW11).....	15,755.25	386.55
26 29 13 13-0228			NEMA 4X, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small> Note: Glass polyester enclosure.		
26 29 13 13-0229	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW21).....	2,363.42	144.95
26 29 13 13-0230	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW21).....	4,395.07	193.28
26 29 13 13-0231	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW21).....	8,675.60	289.92
26 29 13 13-0232			NEMA 7/9, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small> Note: Bolted cast iron enclosure.		
26 29 13 13-0233	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT1).....	2,292.63	154.63
26 29 13 13-0234	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT2).....	2,367.93	164.29
26 29 13 13-0235	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT1).....	2,402.08	164.29
26 29 13 13-0236	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT3).....	2,473.57	173.95
26 29 13 13-0237	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT2).....	2,589.29	173.95
26 29 13 13-0238	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDT1).....	3,823.10	193.28
26 29 13 13-0239			Reversing, Magnetic Starters <small>(26 29 13 13-0083)</small>		
26 29 13 13-0240			Open Enclosure, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
26 29 13 13-0241	EA		Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13).....	1,069.85	125.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0242 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16).....	1,129.61	125.63
26 29 13 13-0243 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1).....	1,251.38	135.29
26 29 13 13-0244 EA Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2).....	1,297.27	144.95
26 29 13 13-0245 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10).....	1,330.47	144.95
26 29 13 13-0246 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2).....	1,423.77	154.63
26 29 13 13-0247 EA Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3).....	1,481.23	169.11
26 29 13 13-0248 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO7).....	1,515.37	169.11
26 29 13 13-0249 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1).....	2,614.66	193.28
26 29 13 13-0250 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1).....	4,281.03	289.92
26 29 13 13-0251 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1).....	9,909.31	434.87
26 29 13 13-0252 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1).....	18,526.42	579.84
26 29 13 13-0253 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1).....	60,223.95	1,063.03
 26 29 13 13-0254 NEMA 1, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
26 29 13 13-0255 EA Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13).....	1,107.43	115.97
26 29 13 13-0256 EA Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15).....	1,155.22	125.63
26 29 13 13-0257 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16).....	1,189.36	125.63
26 29 13 13-0258 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1).....	1,308.29	135.29
26 29 13 13-0259 EA Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2).....	1,356.08	144.95
26 29 13 13-0260 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4).....	1,390.22	144.95
26 29 13 13-0261 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2).....	1,509.14	154.63
26 29 13 13-0262 EA Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6).....	1,566.60	169.11
26 29 13 13-0263 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8).....	1,600.74	169.11
26 29 13 13-0264 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2).....	2,836.62	193.28
26 29 13 13-0265 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2).....	4,665.19	289.92
26 29 13 13-0266 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3).....	10,615.02	434.87
 26 29 13 13-0267 NEMA 12, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
26 29 13 13-0268 EA Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2).....	1,598.90	144.95
26 29 13 13-0269 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4).....	1,633.05	144.95
26 29 13 13-0270 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4).....	1,843.57	169.11
26 29 13 13-0271 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1).....	3,242.59	193.28
 26 29 13 13-0272 NEMA 4X, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
Note: Brushed stainless steel enclosure.		
26 29 13 13-0273 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14).....	2,010.57	144.95
26 29 13 13-0274 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11).....	2,374.20	154.63
 26 29 13 13-0275 Magnetic Contactor/Starters Accessories <small>(26 29 13 13-0083)</small>		
26 29 13 13-0276 EA NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2).....	149.63	12.08
<i>For Factory Installed Accessory, Deduct</i>		
26 29 13 13-0277 EA NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3).....	256.72	12.08
<i>For Factory Installed Accessory, Deduct</i>		
26 29 13 13-0278 EA NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2).....	149.63	12.08
<i>For Factory Installed Accessory, Deduct</i>		
26 29 13 13-0279 EA NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8).....	256.72	12.08
<i>For Factory Installed Accessory, Deduct</i>		
26 29 13 13-0280 EA NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R).....	256.72	12.08
<i>For Factory Installed Accessory, Deduct</i>		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 29	Low-Voltage Controllers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0281 EA Internal Nonconvertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11).....	126.40	9.66
<i>For Factory Installed Accessory, Deduct</i>	-19.32	
26 29 13 13-0282 EA External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6).....	112.34	9.66
<i>For Factory Installed Accessory, Deduct</i>	-19.32	
26 29 13 13-0283 EA External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8).....	149.63	12.08
<i>For Factory Installed Accessory, Deduct</i>	-24.16	
26 29 13 13-0284 EA External Field Non Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13).....	126.40	9.66
<i>For Factory Installed Accessory, Deduct</i>	-19.32	
26 29 13 13-0285 EA External Field Non Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15).....	169.10	12.08
<i>For Factory Installed Accessory, Deduct</i>	-24.16	
26 29 13 13-0286 EA 30 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6).....	190.22	9.66
<i>For Factory Installed Accessory, Deduct</i>	-19.32	
26 29 13 13-0287 EA 45 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11).....	329.76	9.66
<i>For Factory Installed Accessory, Deduct</i>	-19.32	
26 29 13 13-0288 EA 60 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21).....	350.31	9.66
<i>For Factory Installed Accessory, Deduct</i>	-19.32	
26 29 13 13-0289 EA 30 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8).....	418.97	12.08
<i>For Factory Installed Accessory, Deduct</i>	-24.16	
26 29 13 13-0290 EA 45 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13).....	733.73	12.08
<i>For Factory Installed Accessory, Deduct</i>	-24.16	
26 29 13 13-0291 EA 60 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23).....	733.73	12.08
<i>For Factory Installed Accessory, Deduct</i>	-24.16	
26 29 13 13-0292 EA Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1).....	42.74	7.24
<i>For Factory Installed Accessory, Deduct</i>	-14.50	
26 29 13 13-0293 EA 1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3).....	88.55	9.66
<i>For Factory Installed Accessory, Deduct</i>	-19.32	
26 29 13 13-0294 EA 2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4).....	117.18	12.08
<i>For Factory Installed Accessory, Deduct</i>	-24.16	
26 29 13 13-0295 EA Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1).....	91.22	12.08
<i>For Factory Installed Accessory, Deduct</i>	-24.16	
26 29 13 13-0296 EA Terminal Block, Contactor/Starter Accessory (Square D 9999T7).....	50.53	7.24
<i>For Factory Installed Accessory, Deduct</i>	-14.50	
26 29 13 13-0297 EA Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1).....	29.98	7.24
<i>For Factory Installed Accessory, Deduct</i>	-14.50	
26 29 13 13-0298 EA 1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39).....	165.34	9.66
<i>For Factory Installed Accessory, Deduct</i>	-19.32	
26 29 13 13-0299 EA 2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40).....	287.00	12.08
<i>For Factory Installed Accessory, Deduct</i>	-24.16	
26 29 13 13-0300 Definite Purpose Starters <small>(26 29 13 13)</small>		
26 29 13 13-0301 Open Enclosure, Definite Purpose Starter <small>(26 29 13 13-0300)</small>		
26 29 13 13-0302 EA Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13).....	513.65	115.97
<i>For Factory Installed Accessory, Deduct</i>	-231.93	
26 29 13 13-0303 EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22).....	512.70	115.97
<i>For Factory Installed Accessory, Deduct</i>	-231.93	
26 29 13 13-0304 EA Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23).....	554.79	125.63
<i>For Factory Installed Accessory, Deduct</i>	-251.26	
26 29 13 13-0305 EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32).....	547.79	115.97
<i>For Factory Installed Accessory, Deduct</i>	-231.93	
26 29 13 13-0306 EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33).....	595.58	125.63
<i>For Factory Installed Accessory, Deduct</i>	-251.26	
26 29 13 13-0307 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42).....	578.15	115.97
<i>For Factory Installed Accessory, Deduct</i>	-231.93	
26 29 13 13-0308 EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43).....	668.39	144.95
<i>For Factory Installed Accessory, Deduct</i>	-289.92	
26 29 13 13-0309 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52).....	747.11	144.95
<i>For Factory Installed Accessory, Deduct</i>	-289.92	
26 29 13 13-0310 EA Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53).....	943.41	169.11
<i>For Factory Installed Accessory, Deduct</i>	-338.24	
26 29 13 13-0311 NEMA 1, Definite Purpose Starter <small>(26 29 13 13-0300)</small>		
26 29 13 13-0312 EA NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12).....	527.52	106.30
<i>For Factory Installed Accessory, Deduct</i>	-212.61	
26 29 13 13-0313 EA NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG13).....	569.61	115.97
<i>For Factory Installed Accessory, Deduct</i>	-231.93	
26 29 13 13-0314 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22).....	567.71	115.97
<i>For Factory Installed Accessory, Deduct</i>	-231.93	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0315 EA NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23)	612.65	125.63
<i>For Factory Installed Accessory, Deduct</i>	-251.26	
26 29 13 13-0316 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32)	603.76	115.97
<i>For Factory Installed Accessory, Deduct</i>	-231.93	
26 29 13 13-0317 EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33)	652.49	125.63
<i>For Factory Installed Accessory, Deduct</i>	-251.26	
26 29 13 13-0318 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42)	636.01	115.97
<i>For Factory Installed Accessory, Deduct</i>	-231.93	
26 29 13 13-0319 EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43)	725.30	144.95
<i>For Factory Installed Accessory, Deduct</i>	-289.92	
26 29 13 13-0320 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52)	801.18	144.95
<i>For Factory Installed Accessory, Deduct</i>	-289.92	
26 29 13 13-0321 EA NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53)	998.42	169.11
<i>For Factory Installed Accessory, Deduct</i>	-338.24	
26 29 13 13-0322 Definite Purpose Starter Accessory <small>(26 29 13 13-0300)</small>		
26 29 13 13-0323 EA Start-Stop Push Button Kit, Definite Purpose Starter Accessory	169.10	12.08
Note: Or Hand-Off-Auto Selector Switch Kit		
<i>For Factory Installed Accessory, Deduct</i>	-24.16	
26 29 13 13-0324 Panel Mounted Miniature Contactor <small>(26 29 13 13)</small>		
26 29 13 13-0325 Non Reversing, Panel Mounted Miniature Contactor <small>(26 29 13 13-0324)</small>		
26 29 13 13-0326 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	150.71	48.32
26 29 13 13-0327 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	177.44	53.15
26 29 13 13-0328 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	177.44	53.15
26 29 13 13-0329 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	197.54	57.98
26 29 13 13-0330 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	167.78	48.32
26 29 13 13-0331 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	177.27	48.32
26 29 13 13-0332 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	193.57	53.15
26 29 13 13-0333 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	203.05	53.15
26 29 13 13-0334 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	199.26	53.15
26 29 13 13-0335 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	203.05	53.15
26 29 13 13-0336 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	216.51	57.98
26 29 13 13-0337 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	208.74	53.15
26 29 13 13-0338 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	226.00	57.98
26 29 13 13-0339 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	210.64	53.15
26 29 13 13-0340 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	210.64	53.15
26 29 13 13-0341 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	235.49	57.98
26 29 13 13-0342 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	235.49	57.98

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0343 Reversing, Panel Mounted Miniature Contactor <small>(26 29 13 13-0324)</small>		
26 29 13 13-0344 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	219.95	48.32
26 29 13 13-0345 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	238.92	48.32
26 29 13 13-0346 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	264.71	53.15
26 29 13 13-0347 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	264.71	53.15
26 29 13 13-0348 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	283.68	53.15
26 29 13 13-0349 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	297.14	57.98
26 29 13 13-0350 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	297.14	57.98
26 29 13 13-0351 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	255.05	48.32
26 29 13 13-0352 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	274.02	48.32
26 29 13 13-0353 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	297.90	53.15
26 29 13 13-0354 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	316.88	53.15
26 29 13 13-0355 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	336.03	57.98
26 29 13 13-0356 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	355.00	57.98
26 29 13 13-0357 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K)	287.47	53.15
26 29 13 13-0358 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K)	332.05	53.15
26 29 13 13-0359 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K)	375.87	57.98
26 29 13 13-0360 Panel Mounted Miniature Contactor Accessories <small>(26 29 13 13-0324)</small>		
26 29 13 13-0361 EA 2 Auxiliary Contacts, 10 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02)	63.21	24.16
26 29 13 13-0362 EA 4 Auxiliary Contacts, 10 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40)	70.54	24.16
26 29 13 13-0363 EA Electronic Time Delay Contact, 2 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U)	83.80	24.16
26 29 13 13-0364 EA Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LR2K0301)	110.17	24.16
26 29 13 13-0365 Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole <small>(26 29 13 13)</small>		
26 29 13 13-0366 NEMA 1 Enclosure <small>(26 29 13 13-0365)</small>		
26 29 13 13-0367 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	6,912.74	463.21
For NEMA 4, Add	745.83	
26 29 13 13-0368 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	12,135.68	617.61
For NEMA 4, Add	1,362.31	
26 29 13 13-0369 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	21,353.54	733.41
For NEMA 4, Add	2,486.42	
26 29 13 13-0370 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	52,348.80	897.46
For NEMA 4, Add	6,320.22	
26 29 13 13-0371 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	83,604.80	1,148.37
For NEMA 4, Add	10,163.39	
26 29 13 13-0372 NEMA 12 Enclosure <small>(26 29 13 13-0365)</small>		
26 29 13 13-0373 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	6,863.04	473.05
26 29 13 13-0374 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	12,044.91	618.58
26 29 13 13-0375 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	21,187.86	731.10
26 29 13 13-0376 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	51,927.65	893.51
26 29 13 13-0377 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	82,927.56	1,148.85
26 29 13 13-0378 Factory Modifications Pilot Devices <small>(26 29 13 13-0365)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0379 EA Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	175.72	
26 29 13 13-0380 EA H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	193.80	
26 29 13 13-0381 EA Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	329.88	
26 29 13 13-0382 EA Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	179.23	
26 29 13 13-0383 EA Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	257.72	
26 29 13 13-0384 EA Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	128.86	
26 29 13 13-0385 EA Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	420.59	
26 29 13 13-0386 Factory Modifications Meters (26 29 13 13-0385)		
26 29 13 13-0387 EA Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,690.65	
26 29 13 13-0388 EA Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,632.94	
26 29 13 13-0389 EA Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	577.30	
26 29 13 13-0390 EA Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	478.35	
26 29 13 13-0391 Factory Modifications Main Circuit Breakers (26 29 13 13-0385)		
26 29 13 13-0392 EA Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker.....	2,234.44	
26 29 13 13-0393 EA Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker.....	4,086.52	
26 29 13 13-0394 EA Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker.....	8,692.43	
26 29 13 13-0395 Factory Modifications Addition (26 29 13 13-0385)		
Note: For reversing service auto transformer type.		
26 29 13 13-0396 EA Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	375.26	
26 29 13 13-0397 EA Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	375.26	
26 29 13 13-0398 EA Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	375.26	
26 29 13 13-0399 EA Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	375.26	
26 29 13 13-0400 Combination Starters Non-Reversing (26 29 13 13)		
26 29 13 13-0401 240-600 Volts, 3-Pole (26 29 13 13-0400)		
26 29 13 13-0402 NEMA 1 With Disconnect Switch (26 29 13 13-0401)		
26 29 13 13-0403 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,514.21	221.96
<i>For Electronic Overloads, Add</i>		
	202.81	
26 29 13 13-0404 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,825.37	347.41
<i>For Electronic Overloads, Add</i>		
	213.96	
26 29 13 13-0405 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,587.16	405.31
<i>For Electronic Overloads, Add</i>		
	338.76	
26 29 13 13-0406 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,972.93	501.80
<i>For Electronic Overloads, Add</i>		
	563.86	
26 29 13 13-0407 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	7,332.65	800.96
<i>For Electronic Overloads, Add</i>		
	1,087.62	
26 29 13 13-0408 EA Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	14,862.73	1,003.62
<i>For Electronic Overloads, Add</i>		
	2,441.93	
26 29 13 13-0409 NEMA 1 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0410 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,936.49	221.96
<i>For Electronic Overloads, Add</i>		
	283.05	
26 29 13 13-0411 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,247.65	347.41
<i>For Electronic Overloads, Add</i>		
	294.19	
26 29 13 13-0412 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,997.72	405.31
<i>For Electronic Overloads, Add</i>		
	416.77	
26 29 13 13-0413 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,195.81	501.80
<i>For Electronic Overloads, Add</i>		
	606.21	
26 29 13 13-0414 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	8,611.23	800.96
<i>For Electronic Overloads, Add</i>		
	1,330.55	
26 29 13 13-0415 EA Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	18,252.72	1,003.62
<i>For Electronic Overloads, Add</i>		
	3,086.03	
26 29 13 13-0416 Factory Modifications For NEMA 1 Enclosure (26 29 13 13-0401)		
26 29 13 13-0417 EA Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	192.30	
26 29 13 13-0418 EA H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	451.68	
26 29 13 13-0419 EA Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	311.73	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0420			NEMA 4 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0421	EA		Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,789.21	289.51
			<i>For Electronic Overloads, Add</i>	416.77	
26 29 13 13-0422	EA		Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,056.37	405.31
			<i>For Electronic Overloads, Add</i>	427.91	
26 29 13 13-0423	EA		Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	4,412.57	443.90
			<i>For Electronic Overloads, Add</i>	668.62	
26 29 13 13-0424	EA		Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	7,066.32	540.41
			<i>For Electronic Overloads, Add</i>	1,138.88	
26 29 13 13-0425	EA		Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	11,203.58	800.96
			<i>For Electronic Overloads, Add</i>	1,823.09	
26 29 13 13-0426	EA		Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	24,739.47	1,003.62
			<i>For Electronic Overloads, Add</i>	4,318.51	
26 29 13 13-0427			NEMA 4 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0428	EA		Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,211.49	289.51
			<i>For Electronic Overloads, Add</i>	497.00	
26 29 13 13-0429	EA		Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,478.65	405.31
			<i>For Electronic Overloads, Add</i>	508.15	
26 29 13 13-0430	EA		Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	4,823.12	443.90
			<i>For Electronic Overloads, Add</i>	746.62	
26 29 13 13-0431	EA		Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	7,289.19	540.41
			<i>For Electronic Overloads, Add</i>	1,181.22	
26 29 13 13-0432	EA		Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	12,482.16	800.96
			<i>For Electronic Overloads, Add</i>	2,066.02	
26 29 13 13-0433	EA		Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	23,413.97	1,003.62
			<i>For Electronic Overloads, Add</i>	4,066.67	
26 29 13 13-0434			Factory Modifications For NEMA 4 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0435	EA		Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt	192.33	
26 29 13 13-0436	EA		H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt	451.68	
26 29 13 13-0437	EA		Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt	311.73	
26 29 13 13-0438			NEMA 12 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0439	EA		Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,567.58	223.40
			<i>For Electronic Overloads, Add</i>	212.95	
26 29 13 13-0440	EA		Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,881.67	349.62
			<i>For Electronic Overloads, Add</i>	224.65	
26 29 13 13-0441	EA		Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,676.31	402.12
			<i>For Electronic Overloads, Add</i>	355.70	
26 29 13 13-0442	EA		Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	4,121.32	502.58
			<i>For Electronic Overloads, Add</i>	592.06	
26 29 13 13-0443	EA		Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	7,618.85	804.25
			<i>For Electronic Overloads, Add</i>	1,141.99	
26 29 13 13-0444	EA		Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	15,505.33	1,005.16
			<i>For Electronic Overloads, Add</i>	2,564.03	
26 29 13 13-0445			NEMA 12 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0446	EA		Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	2,071.82	223.40
			<i>For Electronic Overloads, Add</i>	308.76	
26 29 13 13-0447	EA		Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	2,388.30	349.62
			<i>For Electronic Overloads, Add</i>	320.91	
26 29 13 13-0448	EA		Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,196.97	402.12
			<i>For Electronic Overloads, Add</i>	454.63	
26 29 13 13-0449	EA		Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	4,485.63	502.58
			<i>For Electronic Overloads, Add</i>	661.28	
26 29 13 13-0450	EA		Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	9,247.35	804.25
			<i>For Electronic Overloads, Add</i>	1,451.41	
26 29 13 13-0451	EA		Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	19,728.13	1,005.16
			<i>For Electronic Overloads, Add</i>	3,366.36	
26 29 13 13-0452			Factory Modifications For NEMA 12 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0453	EA		Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt	190.73	
26 29 13 13-0454	EA		H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt	447.92	
26 29 13 13-0455	EA		Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt	309.14	
26 29 13 13-0456			NEMA 7 Or 9 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0457	EA		Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,670.03	463.21
26 29 13 13-0458	EA		Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	4,972.58	617.61
26 29 13 13-0459	EA		Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	5,398.94	849.21
26 29 13 13-0460	EA		Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	8,026.61	1,158.02
26 29 13 13-0461	EA		Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	12,099.59	1,621.23
26 29 13 13-0462			Factory Modifications For NEMA 7 Or 9 Enclosure <small>(26 29 13 13-0401)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0463 EA Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,143.66	
26 29 13 13-0464 EA H-0-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,143.66	
26 29 13 13-0465 EA Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,143.66	
26 29 13 13-0466 Combination Starters Reversing <small>(26 29 13 13)</small>		
26 29 13 13-0467 240-600 Volt, 3 Pole <small>(26 29 13 13-0466)</small>		
26 29 13 13-0468 NEMA 1 With Disconnect Switch <small>(26 29 13 13-0467)</small>		
26 29 13 13-0469 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	1,867.72	289.51
26 29 13 13-0470 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,161.42	405.31
26 29 13 13-0471 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	3,162.21	443.90
26 29 13 13-0472 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	4,831.58	540.41
26 29 13 13-0473 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	9,481.97	800.96
26 29 13 13-0474 NEMA 1 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0475 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,090.53	289.51
26 29 13 13-0476 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,399.26	405.31
26 29 13 13-0477 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,440.63	443.90
26 29 13 13-0478 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,448.27	540.41
26 29 13 13-0479 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	10,235.08	800.96
26 29 13 13-0480 NEMA 12 With Disconnect Switch <small>(26 29 13 13-0467)</small>		
26 29 13 13-0481 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	1,997.29	297.90
26 29 13 13-0482 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,299.66	402.12
26 29 13 13-0483 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	3,393.29	446.80
26 29 13 13-0484 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	5,214.50	536.16
26 29 13 13-0485 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	10,283.95	804.25
26 29 13 13-0486 NEMA 12 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0487 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,242.79	297.90
26 29 13 13-0488 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,561.72	402.12
26 29 13 13-0489 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,700.07	446.80
26 29 13 13-0490 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,792.14	536.16
26 29 13 13-0491 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	11,113.76	804.25
26 29 13 13-0492 NEMA 7 Or 9 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0493 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,447.08	617.61
26 29 13 13-0494 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,770.95	772.01
26 29 13 13-0495 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	6,866.94	1,003.62
26 29 13 13-0496 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	10,944.67	1,312.42
26 29 13 13-0497 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	20,019.83	1,775.63
26 29 13 13-0498 Solid State Motor Controllers <small>(26 29 13 13)</small>		
26 29 13 13-0499 Adjustable Voltage Drives, DC Motors <small>(26 29 13 13-0498)</small>		
26 29 13 13-0500 EA 0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking.....	1,488.35	173.70
26 29 13 13-0501 EA 0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking.....	1,800.12	173.70
26 29 13 13-0502 Removal And Reinstallation Of Motor Starters <small>(26 29 13 13)</small>		
Note: Includes storage and cleaning.		
26 29 13 13-0503 EA Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect.....	689.29	
26 29 13 13-0504 Auxiliary Devices <small>(26 29 13 13)</small>		
26 29 13 13-0505 EA Auxiliary Contact, Normally Open.....	435.74	96.51
26 29 13 13-0506 EA Auxiliary Contact, Normally Closed.....	435.74	96.51
26 29 13 13-0507 EA Pilot Light Kit.....	460.24	96.51
26 29 23 Variable-Frequency Motor Controllers <small>(26 29)</small>		
26 29 23 00-0001 208/230 Volt Variable Frequency Drives <small>(26 29 23)</small>		
Note: 1 or 3 phase. Wall mounted. ABB ACH550 or ACS550 Series. Includes full voltage bypass. NEMA 1 enclosure.		
26 29 23 00-0002 EA 3/4 HP, 208/230 Volt Variable Frequency Drive.....	1,730.41	191.80
26 29 23 00-0003 EA 1 HP, 208/230 Volt Variable Frequency Drive.....	1,945.45	191.80
26 29 23 00-0004 EA 1-1/2 HP, 208/230 Volt Variable Frequency Drive.....	2,267.37	191.80
26 29 23 00-0005 EA 2 HP, 208/230 Volt Variable Frequency Drive.....	2,478.63	191.80
26 29 23 00-0006 EA 3 HP, 208/230 Volt Variable Frequency Drive.....	2,614.43	191.80
26 29 23 00-0007 EA 5 HP, 208/230 Volt Variable Frequency Drive.....	2,691.50	191.80
26 29 23 00-0008 EA 7.5 HP, 208/230 Volt Variable Frequency Drive.....	3,001.31	288.26
26 29 23 00-0009 EA 10 HP, 208/230 Volt Variable Frequency Drive.....	3,652.42	288.26
26 29 23 00-0010 EA 15 HP, 208/230 Volt Variable Frequency Drive.....	4,427.10	383.48

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 29 Low-Voltage Controllers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 23 00-0011	EA		20 HP, 208/230 Volt Variable Frequency Drive	5,121.69	383.48
26 29 23 00-0012	EA		25 HP, 208/230 Volt Variable Frequency Drive	6,372.23	479.96
26 29 23 00-0013	EA		30 HP, 208/230 Volt Variable Frequency Drive	7,956.71	479.96
26 29 23 00-0014	EA		40 HP, 208/230 Volt Variable Frequency Drive	9,726.61	563.55
26 29 23 00-0015	EA		50 HP, 208/230 Volt Variable Frequency Drive	10,930.41	673.78
26 29 23 00-0016	EA		60 HP, 208/230 Volt Variable Frequency Drive	12,479.10	720.39
26 29 23 00-0017	EA		75 HP, 208/230 Volt Variable Frequency Drive	14,652.61	673.78

26 29 23 00-0018 460/480 Volt Variable Frequency Drives ^(26 29 23)

Note: 3 Phase. ABB ACH550 or ACS550 Series. Includes full voltage bypass. NEMA 1 enclosure.

26 29 23 00-0019	EA		3 HP, 480 Volt Variable Frequency Drive	2,359.04	168.38
			Note: Wall mounted.		
26 29 23 00-0020	EA		5 HP, 480 Volt Variable Frequency Drive	2,530.18	191.80
			Note: Wall mounted.		
26 29 23 00-0021	EA		7.5 HP, 480 Volt Variable Frequency Drive	2,683.16	288.26
			Note: Wall mounted.		
26 29 23 00-0022	EA		10 HP, 480 Volt Variable Frequency Drive	2,970.77	288.27
			Note: Wall mounted.		
26 29 23 00-0023	EA		15 HP, 480 Volt Variable Frequency Drive	3,759.37	383.48
			Note: Wall mounted.		
26 29 23 00-0024	EA		20 HP, 480 Volt Variable Frequency Drive	4,396.40	383.50
			Note: Wall mounted.		
26 29 23 00-0025	EA		25 HP, 480 Volt Variable Frequency Drive	5,519.64	479.97
			Note: Wall mounted.		
26 29 23 00-0026	EA		30 HP, 480 Volt Variable Frequency Drive	6,304.35	479.96
			Note: Wall mounted.		
26 29 23 00-0027	EA		40 HP, 480 Volt Variable Frequency Drive	7,577.54	563.55
			Note: Wall mounted.		
26 29 23 00-0028	EA		50 HP, 480 Volt Variable Frequency Drive	8,972.48	673.78
			Note: Wall mounted.		
26 29 23 00-0029	EA		60 HP, 480 Volt Variable Frequency Drive	10,436.91	720.39
			Note: Wall mounted.		
26 29 23 00-0030	EA		75 HP, 480 Volt Variable Frequency Drive	11,824.63	767.01
			Note: Wall mounted.		
26 29 23 00-0031	EA		100 HP, 480 Volt Variable Frequency Drive	14,155.13	813.40
			Note: Wall mounted.		
26 29 23 00-0032	EA		125 HP, 480 Volt Variable Frequency Drive	16,812.57	859.09
			Note: Wall mounted.		
26 29 23 00-0033	EA		150 HP, 480 Volt Variable Frequency Drive	19,351.35	959.86
			Note: Floor mounted.		
26 29 23 00-0034	EA		200 HP, 480 Volt Variable Frequency Drive	26,070.81	1,052.38
			Note: Floor mounted.		
26 29 23 00-0035	EA		250 HP, 480 Volt Variable Frequency Drive	33,597.61	1,145.42
			Note: Floor mounted.		
26 29 23 00-0036	EA		300 HP, 480 Volt Variable Frequency Drive	39,562.83	1,342.31
			Note: Floor mounted.		
26 29 23 00-0037	EA		350 HP, 480 Volt Variable Frequency Drive	45,955.27	1,520.51
			Note: Floor mounted.		
26 29 23 00-0038	EA		400 HP, 480 Volt Variable Frequency Drive	53,814.32	1,718.18
			Note: Floor mounted.		
26 29 23 00-0039	EA		450 HP, 480 Volt Variable Frequency Drive	58,070.73	1,930.50
			Note: Floor mounted.		

26 30 Facility Electrical Power Generating And Storing Equipment

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26 31 Photovoltaic Collectors ^(26 30)

26 31 00 00-0001 Photovoltaic Collectors ^(26 31)

Note: All materials are to be installed per manufacturers specifications and must be in compliance with the California Energy Commission Guidelines (CEC-300-2011-005-CMF). See CSI section 26 28 13 00-0078 for fuses.

26 31 00 00-0002 Rigid Photovoltaic Modules ^(26 31)

26 31 00 00-0003 Sanyo Rigid Photovoltaic Modules ^(26 31 00 00-0002)

26 31 00 00-0004	EA		205 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.3% Module Efficiency (Sanyo HIP-205NHKA6).....	1,262.85	91.68
			For >50, Deduct	-107.95	
26 31 00 00-0005	EA		210 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.7% Module Efficiency (Sanyo HIP-210NHKA6).....	1,321.37	91.68
			For >50, Deduct	-113.80	
26 31 00 00-0006	EA		215 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 17.1% Module Efficiency (Sanyo HIP-215HNKA6).....	1,239.89	91.68
			For >50, Deduct	-105.65	

26 31 00 00-0007 Sharp Rigid Photovoltaic Modules ^(26 31 00 00-0002)

26 31 00 00-0008	EA		224 Watt Polycrystalline Photovoltaic Module, 64.6" x 39.1", 13.74% Module Efficiency (Sharp ND-224UC1).....	999.36	91.68
			For >50, Deduct	-81.60	
26 31 00 00-0009	EA		230 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.1% Module Efficiency (Sharp NU-U230F3)	1,129.97	91.68
			For >50, Deduct	-94.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0010 EA 235 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.4% Module Efficiency (Sharp NU-U235F1)	1,150.66	91.68
For >50, Deduct	-96.73	
26 31 00 00-0011 EA 240 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.7% Module Efficiency (Sharp NU-U240F1)	1,086.00	91.68
For >50, Deduct	-90.27	
26 31 00 00-0012 BP Solar Rigid Photovoltaic Modules (26 31 00 00-0002)		
Note: Approved for applications in NEC Class 1, Division 2, Groups C and D hazardous locations.		
26 31 00 00-0013 EA 50 Watt Polycrystalline Photovoltaic Module, 33" x 21.1" (BP SX350J)	518.22	91.68
For >50, Deduct	-33.49	
26 31 00 00-0014 EA 75 Watt Polycrystalline Photovoltaic Module, 47.6" x 21.14" (BP SX375J)	628.15	91.68
For >50, Deduct	-44.48	
26 31 00 00-0015 EA 80 Watt Polycrystalline Photovoltaic Module, 47.6" x 20.9" (BP SX380J)	672.11	91.68
For >50, Deduct	-48.88	
26 31 00 00-0016 Photovoltaic Inverters (26 31)		
26 31 00 00-0017 Fronius Photovoltaic Inverters (26 31 00 00-0016)		
26 31 00 00-0018 EA 3 KW Photovoltaic Inverter (Fronius IG Plus 3.0-1)	2,942.46	96.51
26 31 00 00-0019 EA 5 KW Photovoltaic Inverter (Fronius IG Plus 5.0-1)	3,864.45	96.51
26 31 00 00-0020 EA 6 KW Photovoltaic Inverter (Fronius IG Plus 6.0-1)	4,076.28	96.51
26 31 00 00-0021 EA 7.5 KW Photovoltaic Inverter (Fronius IG Plus 7.5-1)	4,551.53	96.51
26 31 00 00-0022 EA 10 KW Photovoltaic Inverter (Fronius IG Plus 10.0-1)	7,176.56	96.51
26 31 00 00-0023 EA 12 KW Photovoltaic Inverter (Fronius IG Plus 12.0-3-1)	8,333.69	96.51
26 31 00 00-0024 EA 11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3 Delta)	6,849.21	193.00
26 31 00 00-0025 EA 11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3)	8,640.43	193.00
26 31 00 00-0026 EA Inverter Display Stand (Fronius 4,045,894)	279.76	48.25
26 31 00 00-0027 SMA Photovoltaic Inverters (26 31 00 00-0016)		
26 31 00 00-0028 EA 4 KW AC Photovoltaic Inverter (SMA Sunny Boy 4000TL-US-22)	2,201.27	96.51
26 31 00 00-0029 EA 5 KW AC Photovoltaic Inverter (SMA Sunny Boy 5000TL-US-22)	2,631.72	96.51
26 31 00 00-0030 EA 6 KW AC Photovoltaic Inverter (SMA Sunny Boy 6000TL-US-22)	3,032.88	96.51
26 31 00 00-0031 EA 7 KW AC Photovoltaic Inverter (SMA Sunny Boy 7000TL-US-22)	3,339.14	96.51
26 31 00 00-0032 EA 8 KW AC Photovoltaic Inverter (SMA Sunny Boy 8000TL-US-12)	3,235.97	96.51
26 31 00 00-0033 PVPowered Photovoltaic Inverters (26 31 00 00-0016)		
26 31 00 00-0034 EA 120 Volt, 1.1 KW Photovoltaic Inverter (PVPowered PVP1100)	2,708.44	96.51
26 31 00 00-0035 EA 240 Volt, 2 KW Photovoltaic Inverter (PVPowered PVP2000)	2,830.24	96.51
26 31 00 00-0036 EA 240 Volt, 2.5 KW Photovoltaic Inverter (PVPowered PVP2500)	3,121.50	96.51
26 31 00 00-0037 EA 240 Volt, 3.5 KW Photovoltaic Inverter (PVPowered PVP3500)	3,704.61	120.63
26 31 00 00-0038 EA 208 Volt, 4.6 KW Photovoltaic Inverter (PVPowered PVP4600)	4,515.44	144.75
26 31 00 00-0039 EA 240 Volt, 4.8 KW Photovoltaic Inverter (PVPowered PVP4800)	4,552.52	144.75
26 31 00 00-0040 EA 240 Volt, 5.2 KW Photovoltaic Inverter (PVPowered PVP5200)	4,799.29	144.75
26 31 00 00-0041 EA 208 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW)	56,695.89	772.01
26 31 00 00-0042 EA 480 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW)	56,770.37	772.01
26 31 00 00-0043 EA 208 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW)	61,396.05	772.01
26 31 00 00-0044 EA 480 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW)	56,948.11	772.01
26 31 00 00-0045 Solectria Photovoltaic Inverters (26 31 00 00-0016)		
26 31 00 00-0046 EA 208 Or 480 Volt, 10 KW Photovoltaic Inverter (Solectria PVI)	8,963.47	193.00
26 31 00 00-0047 EA 208 Or 480 Volt, 13 KW Photovoltaic Inverter (Solectria PVI)	8,963.47	193.00
26 31 00 00-0048 EA 208 Volt, 15 KW, Photovoltaic Inverter (Solectria PVI)	9,222.52	193.00
26 31 00 00-0049 EA 480 Volt, 15 KW Photovoltaic Inverter (Solectria PVI)	9,222.52	193.00
26 31 00 00-0050 EA 208 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	28,070.54	579.01
26 31 00 00-0051 EA 480 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	26,775.28	579.01
26 31 00 00-0052 EA 208 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	30,661.05	579.01
26 31 00 00-0053 EA 480 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	29,941.46	579.01
26 31 00 00-0054 EA 208 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	32,531.97	579.01
26 31 00 00-0055 EA 480 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	31,092.80	579.01
26 31 00 00-0056 EA 208 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	34,357.15	772.01
26 31 00 00-0057 EA 480 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	32,774.06	772.01
26 31 00 00-0058 EA 208 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	35,652.41	772.01
26 31 00 00-0059 EA 480 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	33,781.48	772.01
26 31 00 00-0060 Xantrex Photovoltaic Inverters (26 31 00 00-0016)		
26 31 00 00-0061 EA 0.6 KW Photovoltaic Inverter (Xantrex 806-1206)	383.51	24.13
26 31 00 00-0062 EA 1 KW Photovoltaic Inverter (Xantrex 806-1210)	416.81	24.13
26 31 00 00-0063 EA 2 KW Photovoltaic Inverter (Xantrex 806-1220)	661.54	24.13
26 31 00 00-0064 Photovoltaic DC-DC Converters (26 31)		
26 31 00 00-0065 EA 15 Amp, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-20)	237.91	36.19
Note: Hazardous locations.		
26 31 00 00-0066 EA 20 Amp, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-23)	165.49	36.19
26 31 00 00-0067 EA 60 Amp, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-60)	424.13	36.19

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 31 Photovoltaic Collectors**MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT UNIT COST DEMOLITION UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0068			Photovoltaic Combiner Boxes (26 31)		
26 31 00 00-0069			Midnight Solar Photovoltaic Combiner Boxes (26 31 00 00-0068)		
26 31 00 00-0070	EA		3 - 150 Volt DC Breaker Or 3 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV3)	315.11	96.51
26 31 00 00-0071	EA		6 - 150 Volt DC Breaker Or 4 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV6)	308.40	96.51
26 31 00 00-0072	EA		12 - 150 Volt DC Breaker Or 10 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12)	485.75	144.75
26 31 00 00-0073	EA		6 - 300 Volt DC Breaker, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12-250)	488.10	144.75
26 31 00 00-0074	EA		16, 600 Volt DC Breakers, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV16)	705.64	144.75
26 31 00 00-0075			SMA Photovoltaic Combiner Boxes (26 31 00 00-0068)		
26 31 00 00-0076	EA		6 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SBCB-6)	631.64	96.51
26 31 00 00-0077	EA		12 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-12)	745.93	96.51
26 31 00 00-0078	EA		28 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-28)	1,448.19	193.00
26 31 00 00-0079	EA		52 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-52)	3,188.28	193.00
26 31 00 00-0080	EA		4 Input NEMA 3R, Steel Combination DC Disconnect And Photovoltaic Combiner Box (SMA Combi-Switch)	569.79	96.51
26 31 00 00-0081			Photovoltaic Charge Controller (26 31)		
26 31 00 00-0082	EA		35 Amp, 12 Or 24 Volt, Charge Controller (Xantrex C-35)	193.94	36.19
26 31 00 00-0083	EA		40 Amp, 12 Or 24 Volt, Charge Controller (Xantrex C-40)	252.13	36.19
26 31 00 00-0084	EA		60 Amp, 12 Or 24 Volt, Charge Controller (Xantrex C-60)	290.93	36.19
26 31 00 00-0085	EA		Remote Digital Meter For Xantrex C-35, 40 And 60	227.56	36.19
26 31 00 00-0086	EA		MPPT Charge Controller (Xantrex XW SCC)	745.63	48.25
26 31 00 00-0087			Photovoltaic Batteries (26 31)		
26 31 00 00-0088			Concorde Photovoltaic Batteries (26 31 00 00-0087)		
26 31 00 00-0089	EA		34 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-340T)	168.51	14.48
26 31 00 00-0090	EA		45 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-420T)	213.05	19.30
26 31 00 00-0091	EA		49 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-490T)	229.93	19.30
26 31 00 00-0092	EA		56 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-560T)	267.24	28.95
26 31 00 00-0093	EA		69 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-690T)	302.13	28.95
26 31 00 00-0094	EA		89 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-890T)	358.30	33.77
26 31 00 00-0095	EA		104 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1040T)	410.78	38.60
26 31 00 00-0096	EA		108 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1080T)	406.33	38.60
26 31 00 00-0097	EA		210 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2120T)	731.33	45.84
26 31 00 00-0098	EA		255 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2580T)	843.16	48.25
26 31 00 00-0099			Deka Photovoltaic Batteries (26 31 00 00-0087)		
26 31 00 00-0100	EA		31 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8GU1)	181.52	24.16
26 31 00 00-0101	EA		50 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G22NF)	244.89	24.16
26 31 00 00-0102	EA		74 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G24)	354.81	24.16
26 31 00 00-0103	EA		86 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G27)	403.95	24.16
26 31 00 00-0104	EA		98 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G31)	405.24	24.16
26 31 00 00-0105	EA		183 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G4D)	772.51	24.16
26 31 00 00-0106	EA		225 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G8D)	891.49	24.16
26 31 00 00-0107			Battery Enclosures (26 31 00 00-0087)		
26 31 00 00-0108	EA		14" x 12" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge 55-2501-010)	203.43	24.13
26 31 00 00-0109	EA		22" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS1GC)	944.51	24.16
26 31 00 00-0110	EA		37" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS2GCL)	888.90	24.16
26 31 00 00-0111	EA		37" x 16" x 14.5" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS4GC)	1,179.87	24.16
26 31 00 00-0112	EA		15" x 17.1" x 8.4" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSLCF1)	533.27	24.16
26 31 00 00-0113	EA		31" x 36" x 14" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSBR827BP)	1,235.48	24.16
26 31 00 00-0114			Photovoltaic System Monitoring (26 31)		
26 31 00 00-0115	EA		Solar Inverter Monitor (Xantrex 864-0203)	427.83	48.25
26 31 00 00-0116	EA		Photovoltaic System Monitoring, Remote Diagnosis, Data Storage Communication Hub (SMA Sunny WebBox)	842.60	24.13
26 31 00 00-0117	EA		Sun Radiation And Temperature Monitor (SMA Sunny SensorBox)	706.20	24.13
26 31 00 00-0118	EA		PT100 Ambient Temperature Sensor For Sunny SensorBox (SMA)	141.13	24.13
26 31 00 00-0119	EA		Wind Sensor Accessory For Sunny SensorBox (SMA)	342.58	48.25
26 31 00 00-0120	EA		Sunny Boy Control with RS485 (SMA)	829.02	24.13
26 31 00 00-0121	EA		RS 485 Module (SMA)	198.77	24.13
26 31 00 00-0122	EA		RS 232 Module (SMA)	203.43	24.13
26 31 00 00-0123	EA		Wireless Monitor with Bluetooth (SMA Sunny Beam)	383.22	
26 31 00 00-0124	EA		Bluetooth Piggy-Back Computer Card (SMA)	205.95	24.13
26 31 00 00-0125	EA		RS485-N Communication Computer Card (SMA)	204.65	24.13
26 31 00 00-0126	EA		Bluetooth Repeater (SMA)	374.73	24.13
26 31 00 00-0127	EA		Sunny Boy PC Service Cable (SMA)	175.73	7.23
26 31 00 00-0128	EA		Integrated Revenue Grade Meter, Option (PVPowered)	3,317.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0129 EA Data Monitoring Module (PVPowered PVM1010).....	373.97	24.13
26 31 00 00-0130 EA Wireless IG Personal Display (Fronius 4,240,108).....	388.90	
26 31 00 00-0131 EA DatCom Power Supply (Fronius 43,0001,2311).....	124.86	
26 31 00 00-0132 EA Wireless Card For IG Personal Display (Fronius 4,240,008,Z).....	227.98	24.13
26 31 00 00-0133 EA Retrofit Solar Inverter Interface And Power Supply Option Communication Card (Fronius 4,240,001,Z).....	194.87	24.13
26 31 00 00-0134 EA Datalogger Pro Box (Fronius 4,240,102).....	727.55	24.13
26 31 00 00-0135 EA Datalogger Easy Box (Fronius 4,240,103).....	477.77	24.13
26 31 00 00-0136 EA Datalogger Interface Box (Fronius 4,240,105).....	819.72	24.13
26 31 00 00-0137 EA Datalogger Web (Fronius 4,240,122).....	1,399.32	24.13
26 31 00 00-0138 EA Interface Box (Fronius 4,240,109).....	385.39	24.13
26 31 00 00-0139 EA Interface Card (Fronius 4,240,009,Z).....	278.68	24.13
26 31 00 00-0140 EA Interface Card Easy (Fronius 4,240,013,Z).....	188.15	24.13
26 31 00 00-0141 EA Sensor Box (Fronius 4,240,104).....	759.28	24.13
26 31 00 00-0142 EA Ambient Temperature Sensor (Fronius 43,0001,1188).....	95.65	24.13
26 31 00 00-0143 EA Irradiance Sensor (Fronius 43,0001,1188).....	272.11	24.13
26 31 00 00-0144 EA Module Temperature Sensor (Fronius 43,0001,1190).....	301.59	24.13
26 31 00 00-0145 EA Wind Speed Sensor (Fronius 42,0411,0027).....	178.54	48.25
26 31 00 00-0146 Photovoltaic System Accessories <small>(26 31)</small>		
26 31 00 00-0147 EA Four Inverter Bypass Switch (OutBack AC-IOB-100Q).....	576.58	48.25
26 31 00 00-0148 EA Line Communication Filter (Enphase LCF).....	1,252.13	96.51
26 31 00 00-0149 EA 15 Meter RS 485 Communication Cable (SMA).....	95.95	7.23
26 31 00 00-0150 EA 15 Meter RS 232 Communication Cable (SMA).....	142.51	7.23
26 31 00 00-0151 EA 24" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	23.12	2.38
26 31 00 00-0152 EA 36" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	24.68	2.38
26 31 00 00-0153 EA 48" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	25.56	2.38
26 31 00 00-0154 EA 72" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	28.01	2.38
26 31 00 00-0155 EA 120" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	31.67	2.38
26 31 00 00-0156 EA 240" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	51.14	4.78
26 31 00 00-0157 EA 360" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	62.52	4.78
26 31 00 00-0158 EA 420" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	82.81	7.16
26 31 00 00-0159 EA 36" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	28.62	2.38
26 31 00 00-0160 EA 120" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	39.00	2.38
26 31 00 00-0161 EA 240" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	58.47	4.78
26 31 00 00-0162 EA 360" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	76.81	4.78
26 31 00 00-0163 EA 600" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	126.10	9.56
26 31 00 00-0164 EA 1200" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	131.28	9.56
26 31 00 00-0165 EA Lighting Kit, 9W Fluorescent, 12 V 4.5 Amp Hour Battery.....	2,341.37	260.55
Note: Tamper proof enclosure.		
26 31 00 00-0166 Photovoltaic Mounting Systems <small>(26 31)</small>		
26 31 00 00-0167 LF Anodized Aluminum Photovoltaic Module Mounting Rail (UNIRAC SolarMount Standard).....	8.85	2.41
26 31 00 00-0168 EA Splice Bar For Photovoltaic Module Mounting Rail (UNIRAC 310229).....	28.19	12.06
26 31 00 00-0169 EA Splice Plate For Photovoltaic Module Mounting Rail (UNIRAC 310216).....	33.94	12.06
26 31 00 00-0170 EA 8" x 3/8" Hanger Bolt (UNIRAC 310046).....	17.07	4.83
Note: Supports mounting rail above tile or metal roof.		
26 31 00 00-0171 EA Mounting Rail Grounding Clip (UNIRAC 980006).....	8.84	3.62
Note: One grounding clip for every two top mounting clamps (end clamps + mid clamps) in your installation. Only one of the two rails in each row requires grounding clips.		
26 31 00 00-0172 EA Mounting Rail Grounding Lugs (UNIRAC 980012).....	17.34	4.83
Note: Two grounding lugs for each rail splice and one additional lug for each rail.		
26 31 00 00-0173 EA Anodized Aluminum Photovoltaic Module Mounting End Clamp (UNIRAC 320002).....	4.83	1.61
Note: Four for each row of modules you plan to mount.		
26 31 00 00-0174 EA Anodized Aluminum Photovoltaic Module Mounting Mid Clamp (UNIRAC 320008).....	5.02	1.61
Note: For each row, take one less than the number of modules in the row and multiply that figure by 2.		
26 31 00 00-0175 EA Photovoltaic Module Mount L-Feet (UNIRAC 310065).....	12.87	4.83
26 31 00 00-0176 EA 12" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310121).....	74.14	24.13
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0177 EA 30" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310122).....	80.66	24.13
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0178 EA 44" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310123).....	85.91	24.13
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0179 EA 12" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310107).....	109.31	36.19
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0180 EA 44" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310108).....	128.87	36.19
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0181 EA 72" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310109).....	146.61	36.19
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0182 EA 18" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310111).....	166.03	48.25
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0183 EA 64" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310112).....	212.74	48.25
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		

26 Electrical
26 30 Facility Electrical Power Generating And Storing Equipment
26 31 Photovoltaic Collectors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0184	EA		104" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310110).....301.54 Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	301.54	72.38
26 31 00 00-0185	EA		Ballasted Photovoltaic Module Frame (UNIRAC 310351).....147.70 Note: Excludes ballast.	147.70	
26 31 00 00-0186	EA		Ballasted Photovoltaic Module Frame With Module Mount (UNIRAC 310355).....271.26 Note: Excludes ballast.	271.26	
26 31 00 00-0187	EA		3" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310051).....61.12	61.12	24.13
26 31 00 00-0188	EA		4" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310052).....61.72	61.72	24.13
26 31 00 00-0189	EA		6" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310053).....62.27	62.27	24.13
26 31 00 00-0190	EA		7" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310054).....63.64	63.64	24.13
26 31 00 00-0191	EA		3" High Aluminum Photovoltaic Module Standoff (UNIRAC 310553).....57.48	57.48	24.13
26 31 00 00-0192	EA		4" High Aluminum Photovoltaic Module Standoff (UNIRAC 310554).....58.18	58.18	24.13
26 31 00 00-0193	EA		6" High Aluminum Photovoltaic Module Standoff (UNIRAC 310555).....60.20	60.20	24.13
26 31 00 00-0194	EA		7" High Aluminum Photovoltaic Module Standoff (UNIRAC 310556).....59.63	59.63	24.13
26 31 00 00-0195	EA		3" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310390).....111.85	111.85	36.19
26 31 00 00-0196	EA		4" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310391).....112.26	112.26	36.19
26 31 00 00-0197	EA		7" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310394).....113.50	113.50	36.19
26 31 00 00-0198	EA		Photovoltaic Module Rapidfoot Standoff Assembly (UNIRAC 310370).....112.21	112.21	36.19
26 31 00 00-0199	EA		Photovoltaic Module Standoff Flashing (UNIRAC 990103).....21.03	21.03	4.83
26 31 00 00-0200	EA		Photovoltaic Module Standoff Ethylene Propylene Diene Monomer (EPDM) Patch (UNIRAC 990161).....14.73	14.73	4.83
26 31 00 00-0201	EA		1/4" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004030M-0100).....26.94	26.94	7.23
26 31 00 00-0202	EA		3/8" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004031M-0100).....27.88	27.88	7.23
26 31 00 00-0203	EA		Photovoltaic Module Standing Seam Metal Roof Mounting Clamp (UNIRAC 004032M-0100).....7.57 Note: Mid or end clamp.	7.57	1.61
26 31 00 00-0204	EA		Photovoltaic Module Tile Roof Mounting Hook (UNIRAC 905011C-0024).....33.13	33.13	4.83
26 31 00 00-0205	EA		Photovoltaic Module Wire Clip (UNIRAC 908002S-0100).....2.01	2.01	

26 32 Packaged Generator Assemblies (26 30)

26 32 13 Engine Generators (26 32)

26 32 13 13 Diesel-Engine-Driven Generator Sets (26 32 13)

See CSI section 01 22 23 00-0734 for fuel reimbursement for commissioning.

26 32 13 13-0001 Diesel Generator Sets (26 32 13 13)

Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad. Includes manufacturer's representative at startup. Excludes fuel tank, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0713 for loadbank rental, 26 36 23 00-0000 for automatic transfer switch.

26 32 13 13-0002	EA		25 KW Diesel Generator Set, 3 Phase (Cummins DSKCA).....23,140.19 For Weather Resistant Steel Diesel Generator Enclosure, Add 2,743.63 For Quietsite Level 1 Steel Diesel Generator Enclosure, Add 6,456.28 For Quietsite Level 2 Steel Diesel Generator Enclosure, Add 8,608.38 For Weather Resistant Aluminum Diesel Generator Enclosure, Add 6,985.75 For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add 10,133.11 For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add 13,510.82	23,140.19	828.09
26 32 13 13-0003	EA		35 KW Diesel Generator Set, 3 Phase (Cummins DSFAA).....24,489.08 For Weather Resistant Steel Diesel Generator Enclosure, Add 2,743.63 For Quietsite Level 1 Steel Diesel Generator Enclosure, Add 6,456.28 For Quietsite Level 2 Steel Diesel Generator Enclosure, Add 8,608.38 For Weather Resistant Aluminum Diesel Generator Enclosure, Add 6,985.75 For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add 10,133.11 For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add 13,510.82	24,489.08	1,019.58
26 32 13 13-0004	EA		40 KW Diesel Generator Set, 3 Phase (Cummins DSFAB).....25,229.07 For Weather Resistant Steel Diesel Generator Enclosure, Add 2,743.63 For Quietsite Level 1 Steel Diesel Generator Enclosure, Add 6,456.28 For Quietsite Level 2 Steel Diesel Generator Enclosure, Add 8,608.38 For Weather Resistant Aluminum Diesel Generator Enclosure, Add 6,985.75 For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add 10,133.11 For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add 13,510.82	25,229.07	1,117.92
26 32 13 13-0005	EA		50 KW Diesel Generator Set, 3 Phase (Cummins DSFAC).....29,667.74 For Weather Resistant Steel Diesel Generator Enclosure, Add 2,743.63 For Quietsite Level 1 Steel Diesel Generator Enclosure, Add 6,456.28 For Quietsite Level 2 Steel Diesel Generator Enclosure, Add 8,608.38 For Weather Resistant Aluminum Diesel Generator Enclosure, Add 6,985.75 For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add 10,133.11 For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add 13,510.82	29,667.74	1,283.53
26 32 13 13-0006	EA		60 KW Diesel Generator Set, 3 Phase (Cummins DSFAD).....32,138.79 For Weather Resistant Steel Diesel Generator Enclosure, Add 2,743.63 For Quietsite Level 1 Steel Diesel Generator Enclosure, Add 6,456.28 For Quietsite Level 2 Steel Diesel Generator Enclosure, Add 8,608.38 For Weather Resistant Aluminum Diesel Generator Enclosure, Add 6,985.75 For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add 10,133.11 For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add 13,510.82	32,138.79	1,475.03
26 32 13 13-0007	EA		80 KW Diesel Generator Set, 3 Phase (Cummins DSFAE).....37,776.14 For Weather Resistant Steel Diesel Generator Enclosure, Add 2,743.63 For Quietsite Level 1 Steel Diesel Generator Enclosure, Add 6,456.28 For Quietsite Level 2 Steel Diesel Generator Enclosure, Add 8,608.38 For Weather Resistant Aluminum Diesel Generator Enclosure, Add 6,985.75 For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add 10,133.11 For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add 13,510.82	37,776.14	1,728.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0008 EA 100 KW Diesel Generator Set, 3 Phase (Cummins DSGAA).....	40,807.88	2,008.11
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,161.50	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	9,871.10	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	13,161.47	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	8,962.84	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	10,775.19	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,366.92	
26 32 13 13-0009 EA 125 KW Diesel Generator Set, 3 Phase (Cummins DSGAB).....	42,207.39	2,380.76
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,161.50	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	9,871.10	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	13,161.47	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	8,962.84	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	10,775.19	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,366.92	
26 32 13 13-0010 EA 150 KW Diesel Generator Set, 3 Phase (Cummins DSGAC).....	46,555.13	2,624.01
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,161.50	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	9,871.10	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	13,161.47	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	8,962.84	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	10,775.19	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,366.92	
26 32 13 13-0011 EA 175 KW Diesel Generator Set, 3 Phase (Cummins DSHAB).....	49,323.12	2,929.36
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,161.50	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	9,871.10	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	13,161.47	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	8,962.84	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	10,775.19	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,366.92	
26 32 13 13-0012 EA 200 KW Diesel Generator Set, 3 Phase (Cummins DSHAC).....	52,753.15	3,208.84
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,161.50	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	9,871.10	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	13,161.47	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	8,962.84	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	10,775.19	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,366.92	
26 32 13 13-0013 EA 230 KW Diesel Generator Set, 3 Phase (Cummins DSHAD).....	57,149.59	3,389.98
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,161.50	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	9,871.10	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	13,161.47	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	8,962.84	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	10,775.19	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	14,366.92	
26 32 13 13-0014 EA 250 KW Diesel Generator Set, 3 Phase (Cummins DQDAA).....	59,715.28	3,529.73
For Weather Resistant Steel Diesel Generator Enclosure, Add	26,988.36	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	29,883.95	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	39,845.26	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	32,732.83	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	36,529.30	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	48,705.73	
26 32 13 13-0015 EA 275 KW Diesel Generator Set, 3 Phase (Cummins DQHAA).....	65,070.06	3,721.22
For Weather Resistant Steel Diesel Generator Enclosure, Add	26,988.36	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	29,883.95	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	39,845.26	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	32,732.83	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	36,529.30	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	48,705.73	
26 32 13 13-0016 EA 300 KW Diesel Generator Set, 3 Phase (Cummins DQHAB).....	66,411.66	3,886.84
For Weather Resistant Steel Diesel Generator Enclosure, Add	26,988.36	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	29,883.95	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	39,845.26	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	32,732.83	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	36,529.30	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	48,705.73	
26 32 13 13-0017 EA 350 KW Diesel Generator Set, 3 Phase (Cummins DFEG).....	75,473.07	4,347.46
For Weather Resistant Steel Diesel Generator Enclosure, Add	26,988.36	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	29,883.95	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	39,845.26	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	32,732.83	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	36,529.30	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	48,705.73	
26 32 13 13-0018 EA 400 KW Diesel Generator Set, 3 Phase (Cummins DFEH).....	81,642.16	4,761.50
For Weather Resistant Steel Diesel Generator Enclosure, Add	26,988.36	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	29,883.95	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	39,845.26	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	32,732.83	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	36,529.30	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	48,705.73	
26 32 13 13-0019 EA 450 KW Diesel Generator Set, 3 Phase (Cummins DFEJ).....	92,627.52	5,128.97
For Weather Resistant Steel Diesel Generator Enclosure, Add	26,988.36	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	29,883.95	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	39,845.26	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	32,732.83	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	36,529.30	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	48,705.73	

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0020 EA 500 KW Diesel Generator Set, 3 Phase (Cummins DFEK)..... <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	97,792.02 26,988.36 29,883.95 39,845.26 32,732.83 36,529.30 48,705.73	5,465.38
26 32 13 13-0021 EA 600 KW Diesel Generator Set, 3 Phase (Cummins DQCA)..... <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	142,333.17 55,132.27 66,392.13 88,522.84 64,846.29 77,345.83 103,127.78	6,019.17
26 32 13 13-0022 EA 750 KW Diesel Generator Set, 3 Phase (Cummins DQCB)..... <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	162,907.07 55,132.27 66,392.13 88,522.84 64,846.29 77,345.83 103,127.78	6,619.53
26 32 13 13-0023 EA 800 KW Diesel Generator Set, 3 Phase (Cummins DQCC)..... <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	170,073.65 55,132.27 66,392.13 88,522.84 64,846.29 77,345.83 103,127.78	6,764.44
26 32 13 13-0024 EA 900 KW Diesel Generator Set, 3 Phase (Cummins DQFAC)..... <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	207,206.19 55,132.27 66,392.13 88,522.84 64,846.29 77,345.83 103,127.78	7,292.35
26 32 13 13-0025 EA 1,000 KW Diesel Generator Set, 3 Phase (Cummins DQFAD)..... <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	230,935.59 55,132.27 66,392.13 88,522.84 64,846.29 77,345.83 103,127.78	7,763.32

26 32 13 19 Natural Gas-Engine-Driven Generator Sets (26 32 13)**26 32 13 19-0001 Natural Gas Or Propane Generator Sets (26 32 13 19)**

Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad. Includes manufacturer's representative at startup. Excludes fuel tank, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0713 for loadbank rental, 26 36 23 00-0000 for automatic transfer switches.

26 32 13 19-0002 EA 20 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMA)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	10,704.99 2,495.37 6,456.28 8,608.38 2,702.67 4,483.99	693.53
26 32 13 19-0003 EA 25 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMB)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	12,079.70 2,495.37 6,456.28 8,608.38 2,702.67 4,483.99	828.09
26 32 13 19-0004 EA 29 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMC)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	13,905.45 2,495.37 6,456.28 8,608.38 2,702.67 4,483.99	921.24
26 32 13 19-0005 EA 35 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPA)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	15,742.72 2,495.37 6,456.28 8,608.38 7,644.78 12,831.31	1,019.58
26 32 13 19-0006 EA 40 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPB)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	17,638.00 2,495.37 6,456.28 8,608.38 7,644.78 12,831.31	1,117.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0007 EA 45 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPC)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	19,098.29 2,495.37 6,456.28 8,608.38 7,644.78 12,831.31	1,205.91
26 32 13 19-0008 EA 60 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHE)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	20,920.86 2,495.37 6,456.28 8,608.38 7,644.78 12,831.31	1,475.03
26 32 13 19-0009 EA 70 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHF)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	22,454.12 2,495.37 6,456.28 8,608.38 7,644.78 12,831.31	1,651.00
26 32 13 19-0010 EA 85 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHG)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	29,301.10 4,547.96 9,871.10 13,161.47 8,962.84 12,831.31	1,764.86
26 32 13 19-0011 EA 100 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHH)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	35,229.10 4,547.96 9,871.10 13,161.47 8,962.84 12,831.31	1,987.41
26 32 13 19-0012 EA 125 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLA)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	40,397.51 4,547.96 9,871.10 13,161.47 8,962.84 12,831.31	2,380.76
26 32 13 19-0013 EA 150 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLB)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	47,911.65 4,547.96 9,871.10 13,161.47 8,962.84 12,831.31	2,624.01
26 32 13 19-0014 EA 175 KW Natural Gas Generator Set, 3 Phase (Cummins GFBA)..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	76,982.94 24,270.33 26,866.47 35,821.96 26,536.63 39,820.95	6,979.64
26 32 13 19-0015 EA 205 KW Natural Gas Generator Set, 3 Phase (Cummins GFBB)..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	87,313.07 24,270.33 26,866.47 35,821.96 26,536.63 39,820.95	3,151.91
26 32 13 19-0016 EA 250 KW Natural Gas Generator Set, 3 Phase (Cummins GFBC)..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	93,912.23 24,270.33 26,866.47 35,821.96 26,536.63 39,820.95	3,529.73
26 32 13 19-0017 EA 300 KW Natural Gas Generator Set, 3 Phase (Cummins GFEA)..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	121,193.68 24,270.33 26,866.47 35,821.96 26,536.63 39,820.95	3,886.84
26 32 13 19-0018 EA 350 KW Natural Gas Generator Set, 3 Phase (Cummins GFEB)..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	130,118.65 24,270.33 26,866.47 35,821.96 26,536.63 39,820.95	4,347.46
26 32 13 19-0019 EA 450 KW Natural Gas Generator Set, 3 Phase (Cummins GFGA)..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	182,436.17 52,995.21 56,307.01 75,076.01 60,193.38 85,074.12	5,128.97
26 32 13 19-0020 EA 500 KW Natural Gas Generator Set, 3 Phase (Cummins GFJB)..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	233,092.78 52,995.21 56,307.01 75,076.01 60,193.38 85,074.12	5,465.38

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0021 EA 550 KW Natural Gas Generator Set, 3 Phase (Cummins GFJC)..... For Weather Resistant Steel Natural Gas Generator Enclosure, Add For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	260,679.82 52,995.21 56,307.01 75,076.01 60,193.38 85,074.12	5,760.38
26 32 13 19-0022 EA 600 KW Natural Gas Generator Set, 3 Phase (Cummins GFLA)..... For Weather Resistant Steel Natural Gas Generator Enclosure, Add For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	296,719.39 52,995.21 56,307.01 75,076.01 60,193.38 85,074.12	6,019.17
26 32 13 19-0023 EA 650 KW Natural Gas Generator Set, 3 Phase (Cummins GFLB)..... For Weather Resistant Steel Natural Gas Generator Enclosure, Add For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	310,220.60 52,995.21 56,307.01 75,076.01 60,193.38 85,074.12	6,246.88
26 32 13 19-0024 EA 725 KW Natural Gas Generator Set, 3 Phase (Cummins GFCL)..... For Weather Resistant Steel Natural Gas Generator Enclosure, Add For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	328,122.22 52,995.21 56,307.01 75,076.01 60,193.38 85,074.12	6,676.46
26 32 13 19-0025 Small Natural Gas Or Propane Air Cooled Generator Sets (26 32 13 19)		
26 32 13 19-0026 EA 7.5 KW Natural Gas Or Propane Air Cooled Generator Set Note: Includes weatherproof composite enclosure and 100 A automatic transfer switch.	3,611.49	445.09
26 32 13 19-0027 EA 10 KW Natural Gas Or Propane Air Cooled Generator Set Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	4,540.16	494.53
26 32 13 19-0028 EA 14 KW Natural Gas Or Propane Air Cooled Generator Set Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	5,158.87	507.97
26 32 13 26 AC To DC Electrical Conversion (26 32 13)		
26 32 13 26-0001 60 Hz AC Input 230 Or 460 Volts, 125 Volt DC Output (26 32 13 26)		
26 32 13 26-0002 EA 3 KW, 24 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	5,532.19	193.00
26 32 13 26-0003 EA 5 KW, 40 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	6,715.95	193.00
26 32 13 26-0004 EA 7.5 KW, 60 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	8,863.07	193.00
26 32 13 26-0005 EA 10 KW, 80 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	8,931.97	193.00
26 32 13 26-0006 EA 15 KW, 120 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	9,929.52	241.25
26 32 13 26-0007 EA 20 KW, 160 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	10,742.87	241.25
26 32 13 26-0008 EA 25 KW, 200 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	11,243.03	241.25
26 32 13 26-0009 EA 40 KW, 320 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	13,706.03	318.45
26 32 13 26-0010 EA 50 KW, 400 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	15,213.90	318.45
26 32 13 26-0011 60 Hz AC Input, 230 Or 460 Volts, 250 Volts DC Output (26 32 13 26)		
26 32 13 26-0012 EA 3 KW, 12 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	6,389.17	193.00
26 32 13 26-0013 EA 5 KW, 20 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	7,598.90	193.00
26 32 13 26-0014 EA 7.5 KW, 30 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	8,676.61	193.00
26 32 13 26-0015 EA 10 KW, 40 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	8,914.49	193.00
26 32 13 26-0016 EA 15 KW, 60 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	10,109.49	241.25
26 32 13 26-0017 EA 20 KW, 80 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	11,105.14	241.25
26 32 13 26-0018 EA 25 KW, 100 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	11,467.41	241.25
26 32 13 26-0019 EA 40 KW, 160 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	13,652.27	318.45
26 32 13 26-0020 EA 50 KW, 200 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	14,472.63	318.45
26 32 29 Rotary Converters (26 32)		
26 32 29 00-0001 460 Volt 3 Phase AC Motor Drive 250 Volt DC (26 32 29)		
26 32 29 00-0002 EA 33 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	17,596.68	3,622.89
26 32 29 00-0003 EA 40 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	19,667.44	3,622.89
26 32 29 00-0004 EA 50 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	22,447.45	5,175.55
26 32 29 00-0005 EA 65 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	26,008.24	5,175.55
26 32 29 00-0006 EA 85 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	29,367.84	5,175.55
26 32 29 00-0007 EA 100 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	34,714.93	7,763.32
26 32 29 00-0008 EA 125 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	42,350.72	7,763.32
26 32 29 00-0009 4,160 Volt 3 Phase AC Motor Drive 250 Or 500 Volt DC (26 32 29)		
26 32 29 00-0010 EA 170 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	60,294.46	10,351.09
26 32 29 00-0011 EA 200 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	65,765.75	10,351.09
26 32 29 00-0012 EA 240 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	79,030.24	13,456.42
26 32 29 00-0013 EA 320 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	89,957.38	16,354.73
26 32 29 00-0014 EA 400 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	106,242.75	16,354.73
26 32 29 00-0015 EA 560 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	150,274.52	24,428.58
26 32 29 00-0016 EA 640 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	156,092.16	24,428.58
26 32 29 00-0017 EA 800 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	179,309.62	28,465.51



Electrical	26	26
Facility Electrical Power Generating And Storing Equipment	26 30	
Packaged Generator Assemblies	26 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 33 Battery Equipment (26 30)

26 33 13 Batteries (26 33)

26 33 13 00-0001 Standby Batteries (26 33 13)

26 33 13 00-0002	EA	12 Volt, 100 Amp Hours To 10.5 Volts Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery.....	677.79	
26 33 13 00-0003	EA	12 Volt, 100 Amp Hours To 10.5 Volts Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery With Steel Jacket.....	731.13	24.16
26 33 13 00-0004	EA	725CCA, Group 31, 12 Volt Lead Calcium Standby Battery.....	223.21	24.16
26 33 13 00-0005	EA	810CCA, Group 24, 12 Volt Lead Calcium Standby Battery.....	203.98	24.16
26 33 13 00-0006	EA	1080CCA, Group 4D, 12 Volt Lead Calcium Standby Battery.....	341.13	24.16
26 33 13 00-0007	EA	1400CCA, Group 8D, 12 Volt Lead Calcium Standby Battery.....	394.28	24.16

26 33 43 Battery Chargers (26 33)

26 33 43 00-0001 Solid State Chargers, Single Phase (26 33 43)

Note: Includes wall bracket, 10' of DC charging cable and standard connector, 208/240/480 V.

26 33 43 00-0002	EA	Solid State Battery Charger, 6 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	2,179.22	551.40
26 33 43 00-0003	EA	Solid State Battery Charger, 9 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	2,519.56	551.40
26 33 43 00-0004	EA	Solid State Battery Charger, 12 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	2,769.45	551.40
26 33 43 00-0005	EA	Solid State Battery Charger, 18 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	2,942.41	652.85

26 33 53 Static Uninterruptible Power Supply (26 33)

26 33 53 00-0001 Single Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53)

26 33 53 00-0002 Single Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53 00-0001)

26 33 53 00-0003 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)

Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.

26 33 53 00-0004	EA	0.5 kVA, 450 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-500RT120).....	919.71	95.53
		Note: Includes 12 minutes of battery backup at full load.		
26 33 53 00-0005	EA	0.7 kVA, 630 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT120).....	1,098.56	111.46
		Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0006	EA	1 kVA, 900 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT120).....	1,353.95	127.38
		Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0007	EA	1.5 kVA, 1,350 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT120).....	1,653.83	143.31
		Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0008	EA	2 kVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT120).....	2,121.92	159.23
		Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0009	EA	3 kVA, 2,700 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT120).....	3,513.22	222.92
		Note: Includes 4 minutes of battery backup at full load.		

26 33 53 00-0010 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)

Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.

26 33 53 00-0011	EA	3 kVA, 2,700 Watt, 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT208).....	3,450.36	222.92
		Note: Includes 4 minutes of battery backup at full load.		

26 33 53 00-0012 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)

Note: Rack mount or tower configuration. Includes 50 or 60 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.

26 33 53 00-0013	EA	5 kVA, 4,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT208).....	5,173.21	254.76
		Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0014	EA	6 kVA, 4,800 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT208).....	5,657.40	286.61
		Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0015	EA	8 kVA, 7,200 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-8000RT208).....	8,458.54	350.30
		Note: Includes 7 minutes of battery backup at full load.		
26 33 53 00-0016	EA	10 kVA, 9,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT208).....	9,722.95	382.14
		Note: Includes 4-1/2 minutes of battery backup at full load.		

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 33 Battery Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0017 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) <small>(26 33 53 00-0002)</small> Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0018 EA 0.7 KVA, 630 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT230).....	1,098.56	111.46
Note: Includes 11 minutes of battery backup at full load.		
26 33 53 00-0019 EA 1 KVA, 900 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT230).....	1,353.95	127.38
Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0020 EA 1.5 KVA, 1,350 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT230).....	1,672.40	143.31
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0021 EA 2 KVA, 1,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT230).....	2,126.40	159.23
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0022 EA 3 KVA, 2,700 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT230).....	3,527.18	222.92
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0023 EA 5 KVA, 4,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT230).....	4,963.27	254.76
Note: Includes 9 minutes of battery backup at full load.		
26 33 53 00-0024 EA 6 KVA, 4,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT230).....	6,093.88	286.61
Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0025 EA 10 KVA, 9,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT230).....	9,422.84	382.14
Note: Includes 3 minutes of battery backup at full load.		
26 33 53 00-0026 Optional Accessories For Single Phase, Uninterruptible Power Supply Systems <small>(26 33 53 00-0001)</small>		
26 33 53 00-0027 EA External Battery Cabinet For 0.5 To 2 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-48VBATT).....	609.53	28.95
Note: Rack mount or tower configuration.		
26 33 53 00-0028 EA External Battery Cabinet For 3 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-72VBATT).....	798.37	28.95
Note: Rack mount or tower configuration.		
26 33 53 00-0029 EA External Battery Cabinet For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATT).....	777.35	28.95
Note: Rack mount or tower configuration.		
26 33 53 00-0030 EA External Battery Cabinet For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTVBATT).....	528.18	28.95
Note: Rack mount or tower configuration.		
26 33 53 00-0031 EA Replacement Internal Battery For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATKIT).....	781.58	95.53
26 33 53 00-0032 EA Replacement Internal Battery For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTBKIT).....	878.07	127.38
26 33 53 00-0033 Three Phase, Uninterruptible Power Supply Systems (UPS) <small>(26 33 53)</small>		
26 33 53 00-0034 208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) With Internal Battery (Emerson) <small>(26 33 53 00-0033)</small> Note: Includes start-up, 60 Hz frequency, bypass switch and diagnostics.		
26 33 53 00-0035 EA 10 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	23,427.08	382.14
26 33 53 00-0036 EA 15 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	26,018.48	509.53
26 33 53 00-0037 EA 20 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	29,147.77	636.91
26 33 53 00-0038 EA 30 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	31,685.38	764.29
26 33 53 00-0039 EA 40 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	38,095.86	891.67
26 33 53 00-0040 208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery (Emerson) <small>(26 33 53 00-0033)</small> Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.		
26 33 53 00-0041 EA 60 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	51,892.94	1,519.90
26 33 53 00-0042 EA 80 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	56,758.89	1,881.79
26 33 53 00-0043 EA 100 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	62,887.76	2,195.41
26 33 53 00-0044 EA 120 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	77,301.87	2,484.92
26 33 53 00-0045 EA 140 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	80,472.28	2,774.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0046 EA 160 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	83,581.01	3,063.93
26 33 53 00-0047 EA 180 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	87,335.24	3,353.44
26 33 53 00-0048 EA 200 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	91,089.47	3,642.94
26 33 53 00-0049 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery (Emerson) ^(26 33 53 00-0033)		
<i>Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.</i>		
26 33 53 00-0050 EA 50 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	48,374.06	1,254.52
26 33 53 00-0051 EA 100 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	63,210.50	2,205.07
26 33 53 00-0052 EA 150 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	85,930.80	2,547.65
26 33 53 00-0053 EA 200 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	100,936.61	2,798.55
26 33 53 00-0054 EA 250 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	117,771.27	3,088.06
26 33 53 00-0055 Optional Accessories For Three Phase, Uninterruptible Power Supply Systems ^(26 33 53 00-0033)		
26 33 53 00-0056 EA Programmable Relay Board For Three Phase Uninterruptible Power Supply Systems.....	543.77	48.25
26 33 53 00-0057 EA Network Interface Card For Three Phase Uninterruptible Power Supply Systems.....	875.10	48.25
26 33 53 00-0058 EA Remote Status Panel With 100' Of Cable For Three Phase Uninterruptible Power Supply Systems.....	1,680.24	96.51
26 33 53 00-0059 EA Slim Line Distribution Panel With Two 42 Pole Panels For Three Phase Uninterruptible Power Supply Systems.....	5,229.82	386.00
26 33 53 00-0060 EA 12 Volt, 491 Watts, 3 Phase, 134 Amp Hours, Battery For Uninterruptible Power Supply Systems (C&D UPS12-490MR).....	357.91	48.25
26 33 53 00-0061 EA 12 Volt, 204 Watts, 3 Phase, 55 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX200).....	198.51	48.25
26 33 53 00-0062 EA 12 Volt, 257 Watts, 3 Phase, 65 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX250).....	221.77	48.25
26 33 53 00-0063 EA 12 Volt, 311 Watts, 3 Phase, 75 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX300).....	245.03	48.25
26 33 53 00-0064 EA 12 Volt, 374 Watts, 3 Phase, 90 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX350).....	286.90	48.25
26 33 53 00-0065 EA 12 Volt, 415 Watts, 3 Phase, 100 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX400).....	300.85	48.25
26 33 53 00-0066 EA 12 Volt, 493 Watts, 3 Phase, 135 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX500).....	372.96	48.25
26 33 53 00-0067 EA 12 Volt, 540 Watts, 3 Phase, 150 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX540).....	390.41	48.25
26 33 53 00-0068 Other Uninterruptable Power Supply Equipment ^(26 33 53)		
26 33 53 00-0069 EA Uninterrupted Power Supply Slim-Line Distribution Panel 42 Pole GE Plug-In.....	3,488.42	88.22
26 33 53 00-0070 EA Uninterrupted Power Supply Slim-Line Distribution Panel 84 Pole GE Plug-In.....	4,235.89	176.45
26 33 53 00-0071 EA GE Plug-In Breakers 1 Pole 15- 60A For UPS Distribution Panel.....	20.86	5.29
26 33 53 00-0072 EA GE Plug-In Breakers 2 Pole 15- 40A For UPS Distribution Panel.....	36.07	6.61
26 33 53 00-0073 EA GE Plug-In Breakers 2 Pole 50- 80A For UPS Distribution Panel.....	64.62	6.61
26 33 53 00-0074 EA GE Plug-In Breakers 3 Pole 15- 60A For UPS Distribution Panel.....	94.17	8.82
26 33 53 00-0075 EA GE Plug-In Breakers 3 Pole 70- 100A For UPS Distribution Panel.....	131.86	8.82
26 33 53 00-0076 EA Uninterrupted Power Supply Remote Status Panel.....	2,403.47	88.22
26 33 53 00-0077 EA Uninterrupted Power Supply Remote Contact Board.....	817.56	66.17
26 35 Power Filters And Conditioners ^(26 30)		
26 35 33 Power Factor Correction Equipment ^(26 35)		
26 35 33 00-0001 Power Factor Correction Capacitors ^(26 35 33)		
26 35 33 00-0002 EA Power Factor Correction Capacitors, 2.0 KVAC.....	578.13	
26 35 33 00-0003 EA Power Factor Correction Capacitors, 3.0 KVAC.....	640.30	
26 35 33 00-0004 EA Power Factor Correction Capacitors, 4.0 KVAC.....	702.46	
26 35 33 00-0005 EA Power Factor Correction Capacitors, 5.0 KVAC.....	762.14	
26 35 33 00-0006 EA Power Factor Correction Capacitors, 7.5 KVAC.....	936.20	
26 35 33 00-0007 EA Power Factor Correction Capacitors, 10.0 KVAC.....	1,143.83	
26 35 33 00-0008 EA Power Factor Correction Capacitors, 15.0 KVAC.....	1,766.73	
26 35 33 00-0009 EA Power Factor Correction Capacitors, 20.0 KVAC.....	2,145.93	
26 35 33 00-0010 EA Power Factor Correction Capacitors, 25.0 KVAC.....	2,772.56	
26 35 33 00-0011 EA Power Factor Correction Capacitors, 30.0 KVAC.....	3,153.01	
26 35 33 00-0012 EA Power Factor Correction Capacitors, 50.0 KVAC.....	5,532.68	
26 35 33 00-0013 EA Power Factor Correction Capacitors, 75.0 KVAC.....	8,318.91	
26 35 33 00-0014 EA Power Factor Correction Capacitors, 100.0 KVAC.....	11,092.71	
26 35 33 00-0015 EA Power Factor Correction Capacitors, Fuse Kit.....	514.73	
26 35 43 Static-Frequency Converters ^(26 35)		

26 Electrical

26 30 Facility Electrical Power Generating And Storing Equipment

26 35 Power Filters And Conditioners



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 35 43 00-0001 Rotary Phase Converter With NEMA 1 Indoor Enclosure (26 35 43)					
26 35 43 00-0002	EA		750 Watt Output Rotary Phase Converter With NEMA 1 Enclosure	450.21	96.51
26 35 43 00-0003	EA		2 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	764.09	115.80
26 35 43 00-0004	EA		3 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	878.83	154.41
26 35 43 00-0005	EA		5 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,200.26	193.00
26 35 43 00-0006	EA		7 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,644.50	250.90
26 35 43 00-0007	EA		11 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	2,116.12	308.80
26 35 43 00-0008	EA		15 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	2,642.47	366.70
26 35 43 00-0009	EA		21 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	3,204.27	414.96
26 35 43 00-0010	EA		29 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	3,733.78	501.80
26 35 43 00-0011	EA		36 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	4,269.78	564.54
26 35 43 00-0012	EA		44 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	4,805.78	627.27
26 35 43 00-0013	EA		55 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	5,955.85	757.54
26 35 43 00-0014	EA		74 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	7,701.60	911.94
26 35 43 00-0015	EA		87 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	9,739.45	1,109.77
26 35 43 00-0016	EA		110 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	11,155.86	1,297.94
26 35 43 00-0017	EA		125 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	14,246.77	1,447.52
26 35 43 00-0018	EA		165 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	21,475.29	1,640.53
26 35 43 00-0019	EA		220 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	31,714.50	1,833.53

26 35 53 Voltage Regulators (26 35)

26 35 53 00-0001 Voltage Regulators, 480/277 Or 208/120 Volt, 3 Phase (26 35 53)					
Note: For diesel motor generator sets mounted in switchgear cabinet.					
26 35 53 00-0002	EA		50 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	4,928.04	1,534.38
26 35 53 00-0003	EA		75 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	5,726.51	1,930.03
26 35 53 00-0004	EA		100 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	6,461.76	2,296.74

26 36 Transfer Switches (26 30)

26 36 13 Manual Transfer Switches (26 36)

26 36 13 00-0001 Fused Manual Transfer Switches (26 36 13)					
26 36 13 00-0002	EA		30 Amp Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,256.12	168.87
26 36 13 00-0003	EA		60 Amp Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,457.05	209.79

26 36 13 00-0004 Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure

26 36 13 00-0005	EA		40 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT40).....	2,222.08	247.27
			For NEMA 3R Enclosure, Add	679.83	
			For NEMA 12 Enclosure, Add	639.84	
26 36 13 00-0006	EA		70 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT70).....	2,470.58	296.72
			For NEMA 3R Enclosure, Add	679.83	
			For NEMA 12 Enclosure, Add	639.84	
26 36 13 00-0007	EA		125 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT125).....	2,807.79	346.17
			For NEMA 3R Enclosure, Add	679.83	
			For NEMA 12 Enclosure, Add	639.84	
26 36 13 00-0008	EA		150 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT150).....	3,473.29	395.63
			For NEMA 3R Enclosure, Add	799.80	
			For NEMA 12 Enclosure, Add	639.84	
26 36 13 00-0009	EA		225 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT225).....	4,282.19	445.09
			For NEMA 3R Enclosure, Add	799.80	
			For NEMA 12 Enclosure, Add	639.84	
26 36 13 00-0010	EA		260 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT260).....	4,812.26	494.53
			For NEMA 3R Enclosure, Add	799.80	
			For NEMA 12 Enclosure, Add	639.84	
26 36 13 00-0011	EA		300 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT300).....	5,350.39	543.99
			For NEMA 3R Enclosure, Add	943.76	
			For NEMA 12 Enclosure, Add	799.80	
26 36 13 00-0012	EA		400 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT400).....	6,264.68	593.44
			For NEMA 3R Enclosure, Add	943.76	
			For NEMA 12 Enclosure, Add	799.80	
26 36 13 00-0013	EA		600 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT600).....	8,269.14	741.80
			For NEMA 3R Enclosure, Add	943.76	
			For NEMA 12 Enclosure, Add	799.80	
26 36 13 00-0014	EA		800 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT800).....	9,324.04	890.16
			For NEMA 3R Enclosure, Add	1,159.71	
			For NEMA 12 Enclosure, Add	1,119.72	
26 36 13 00-0015	EA		1,000 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT1000).....	12,432.32	1,242.13
			For NEMA 3R Enclosure, Add	1,159.71	
			For NEMA 12 Enclosure, Add	1,119.72	

26 36 23 Automatic Transfer Switches (26 36)

26 36 23 00-0001 Automatic Transfer Switch (26 36 23)					
26 36 23 00-0002 Automatic Transfer Switch, 2 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)					
Note: Programmable, 120/240 volt single phase, 3 wire.					
26 36 23 00-0003	EA		100 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	2,053.59	346.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0004 EA 225 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	2,784.07	445.09
26 36 23 00-0005 EA 400 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	4,382.87	593.44
26 36 23 00-0006 EA 600 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	9,769.49	741.80
26 36 23 00-0007 Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure <small>(26 36 23 00-0001)</small>		
26 36 23 00-0008 EA 40 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC40).....	3,267.70	247.27
<i>For NEMA 3R Enclosure, Add</i>	679.83	
<i>For NEMA 4 Enclosure, Add</i>	719.82	
<i>For NEMA 12 Enclosure, Add</i>	719.82	
26 36 23 00-0009 EA 70 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC70).....	3,776.49	296.72
<i>For NEMA 3R Enclosure, Add</i>	679.83	
<i>For NEMA 4 Enclosure, Add</i>	719.82	
<i>For NEMA 12 Enclosure, Add</i>	719.82	
26 36 23 00-0010 EA 125 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC125).....	4,158.44	346.17
<i>For NEMA 3R Enclosure, Add</i>	679.83	
<i>For NEMA 4 Enclosure, Add</i>	719.82	
<i>For NEMA 12 Enclosure, Add</i>	719.82	
26 36 23 00-0011 EA 150 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC150).....	4,941.48	395.63
<i>For NEMA 3R Enclosure, Add</i>	799.80	
<i>For NEMA 4 Enclosure, Add</i>	1,039.74	
<i>For NEMA 12 Enclosure, Add</i>	719.82	
26 36 23 00-0012 EA 225 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC225).....	5,640.18	445.09
<i>For NEMA 3R Enclosure, Add</i>	799.80	
<i>For NEMA 4 Enclosure, Add</i>	1,039.74	
<i>For NEMA 12 Enclosure, Add</i>	719.82	
26 36 23 00-0013 EA 260 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC260).....	6,225.24	494.53
<i>For NEMA 3R Enclosure, Add</i>	799.80	
<i>For NEMA 4 Enclosure, Add</i>	1,039.74	
<i>For NEMA 12 Enclosure, Add</i>	719.82	
26 36 23 00-0014 EA 300 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC300).....	6,514.06	543.99
<i>For NEMA 3R Enclosure, Add</i>	943.76	
<i>For NEMA 4 Enclosure, Add</i>	1,119.72	
<i>For NEMA 12 Enclosure, Add</i>	799.80	
26 36 23 00-0015 EA 400 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC400).....	7,359.42	593.44
<i>For NEMA 3R Enclosure, Add</i>	943.76	
<i>For NEMA 4 Enclosure, Add</i>	1,119.72	
<i>For NEMA 12 Enclosure, Add</i>	799.80	
26 36 23 00-0016 EA 600 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC600).....	10,061.21	741.80
<i>For NEMA 3R Enclosure, Add</i>	943.76	
<i>For NEMA 4 Enclosure, Add</i>	1,119.72	
<i>For NEMA 12 Enclosure, Add</i>	799.80	
26 36 23 00-0017 EA 800 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC800).....	11,303.09	890.16
<i>For NEMA 3R Enclosure, Add</i>	1,159.71	
<i>For NEMA 4 Enclosure, Add</i>	1,279.69	
<i>For NEMA 12 Enclosure, Add</i>	1,119.72	
26 36 23 00-0018 EA 1,000 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1000).....	14,745.73	1,242.13
<i>For NEMA 3R Enclosure, Add</i>	1,159.71	
<i>For NEMA 4 Enclosure, Add</i>	1,279.69	
<i>For NEMA 12 Enclosure, Add</i>	1,119.72	
26 36 23 00-0019 EA 1,200 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1200).....	19,053.03	1,345.64
<i>For NEMA 3R Enclosure, Add</i>	2,559.36	
<i>For NEMA 4 Enclosure, Add</i>	1,439.64	
<i>For NEMA 12 Enclosure, Add</i>	1,199.70	
26 36 23 00-0020 EA 1,600 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1600).....	20,350.66	1,552.66
<i>For NEMA 3R Enclosure, Add</i>	4,158.95	
<i>For NEMA 4 Enclosure, Add</i>	5,118.71	
<i>For NEMA 12 Enclosure, Add</i>	4,158.95	
26 36 23 00-0021 EA 2,000 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC2000).....	23,263.49	1,759.69
<i>For NEMA 3R Enclosure, Add</i>	4,158.95	
<i>For NEMA 4 Enclosure, Add</i>	5,118.71	
<i>For NEMA 12 Enclosure, Add</i>	4,158.95	
26 36 23 00-0022 EA 3,000 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC3000).....	28,111.80	2,173.73
<i>For NEMA 3R Enclosure, Add</i>	4,158.95	
26 36 23 00-0023 EA 4,000 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC4000).....	48,417.29	2,587.77
<i>For NEMA 3R Enclosure, Add</i>	19,547.05	
26 36 23 00-0024 Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure <small>(26 36 23 00-0001)</small>		
26 36 23 00-0025 EA 150 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC150).....	16,470.03	1,879.23
<i>For NEMA 3R Enclosure, Add</i>	1,399.65	
<i>For NEMA 4 Enclosure, Add</i>	1,439.64	
<i>For NEMA 12 Enclosure, Add</i>	759.82	
26 36 23 00-0026 EA 225 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC225).....	17,197.40	1,978.14
<i>For NEMA 3R Enclosure, Add</i>	1,399.65	
<i>For NEMA 4 Enclosure, Add</i>	1,439.64	
<i>For NEMA 12 Enclosure, Add</i>	759.82	
26 36 23 00-0027 EA 260 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC260).....	18,028.79	2,077.05
<i>For NEMA 3R Enclosure, Add</i>	1,399.65	
<i>For NEMA 4 Enclosure, Add</i>	1,439.64	
<i>For NEMA 12 Enclosure, Add</i>	759.82	

26 Electrical

26 30 Facility Electrical Power Generating And Storing Equipment

26 36 Transfer Switches



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0028	EA		300 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC300).....	20,069.91	2,126.50
			<i>For NEMA 3R Enclosure, Add</i>	1,399.65	
			<i>For NEMA 4 Enclosure, Add</i>	1,439.64	
			<i>For NEMA 12 Enclosure, Add</i>	759.82	
26 36 23 00-0029	EA		400 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC400).....	23,087.99	2,175.95
			<i>For NEMA 3R Enclosure, Add</i>	1,399.65	
			<i>For NEMA 4 Enclosure, Add</i>	1,439.64	
			<i>For NEMA 12 Enclosure, Add</i>	759.82	
26 36 23 00-0030	EA		600 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC600).....	27,630.15	2,274.86
			<i>For NEMA 3R Enclosure, Add</i>	1,399.65	
			<i>For NEMA 4 Enclosure, Add</i>	1,439.64	
			<i>For NEMA 12 Enclosure, Add</i>	799.80	
26 36 23 00-0031	EA		800 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC800).....	30,423.30	2,373.77
			<i>For NEMA 3R Enclosure, Add</i>	1,439.64	
			<i>For NEMA 4 Enclosure, Add</i>	1,439.64	
			<i>For NEMA 12 Enclosure, Add</i>	879.78	
26 36 23 00-0032	EA		1,000 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1000).....	38,169.11	2,769.39
			<i>For NEMA 3R Enclosure, Add</i>	1,439.64	
			<i>For NEMA 4 Enclosure, Add</i>	1,439.64	
			<i>For NEMA 12 Enclosure, Add</i>	879.78	
26 36 23 00-0033	EA		1,200 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1200).....	49,893.92	3,105.33
			<i>For NEMA 3R Enclosure, Add</i>	6,398.38	
			<i>For NEMA 4 Enclosure, Add</i>	7,997.98	
			<i>For NEMA 12 Enclosure, Add</i>	6,398.38	
26 36 23 00-0034	EA		1,600 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1600).....	64,894.51	3,312.35
			<i>For NEMA 3R Enclosure, Add</i>	13,596.56	
			<i>For NEMA 4 Enclosure, Add</i>	13,596.56	
			<i>For NEMA 12 Enclosure, Add</i>	12,668.80	
26 36 23 00-0035	EA		2,000 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC2000).....	73,648.06	3,622.89
			<i>For NEMA 3R Enclosure, Add</i>	13,596.56	
			<i>For NEMA 4 Enclosure, Add</i>	13,596.56	
			<i>For NEMA 12 Enclosure, Add</i>	12,668.80	
26 36 23 00-0036	EA		3,000 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC3000).....	117,342.75	4,140.44
			<i>For NEMA 3R Enclosure, Add</i>	16,795.74	
26 36 23 00-0037	EA		4,000 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC4000).....	126,709.89	4,657.99
			<i>For NEMA 3R Enclosure, Add</i>	16,795.74	
26 36 23 00-0038			Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure <small>(26 36 23 00-0001)</small>		
26 36 23 00-0039	EA		40 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE40).....	5,285.61	247.27
			<i>For NEMA 3R Enclosure, Add</i>	399.90	
			<i>For NEMA 12 Enclosure, Add</i>	719.82	
26 36 23 00-0040	EA		70 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE70).....	5,724.76	296.72
			<i>For NEMA 3R Enclosure, Add</i>	399.90	
			<i>For NEMA 12 Enclosure, Add</i>	719.82	
26 36 23 00-0041	EA		125 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE125).....	6,163.16	346.17
			<i>For NEMA 3R Enclosure, Add</i>	399.90	
			<i>For NEMA 12 Enclosure, Add</i>	719.82	
26 36 23 00-0042	EA		150 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE150).....	7,395.68	395.63
			<i>For Four Pole Circuit Breaker, Add</i>	1,999.49	
			<i>For NEMA 3R Enclosure, Add</i>	399.90	
			<i>For NEMA 12 Enclosure, Add</i>	719.82	
26 36 23 00-0043	EA		225 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE225).....	9,609.28	445.09
			<i>For Four Pole Circuit Breaker, Add</i>	1,999.49	
			<i>For NEMA 3R Enclosure, Add</i>	399.90	
			<i>For NEMA 12 Enclosure, Add</i>	719.82	
26 36 23 00-0044	EA		250 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE250).....	10,236.87	494.53
			<i>For Four Pole Circuit Breaker, Add</i>	1,999.49	
			<i>For NEMA 3R Enclosure, Add</i>	399.90	
			<i>For NEMA 12 Enclosure, Add</i>	719.82	
26 36 23 00-0045	EA		300 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE300).....	10,654.75	543.99
			<i>For Four Pole Circuit Breaker, Add</i>	2,719.31	
			<i>For NEMA 3R Enclosure, Add</i>	1,039.74	
			<i>For NEMA 12 Enclosure, Add</i>	799.80	
26 36 23 00-0046	EA		400 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE400).....	12,050.78	593.44
			<i>For Four Pole Circuit Breaker, Add</i>	2,719.31	
			<i>For NEMA 3R Enclosure, Add</i>	1,039.74	
			<i>For NEMA 12 Enclosure, Add</i>	799.80	
26 36 23 00-0047	EA		600 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE600).....	14,628.65	741.80
			<i>For Four Pole Circuit Breaker, Add</i>	2,719.31	
			<i>For NEMA 3R Enclosure, Add</i>	1,039.74	
			<i>For NEMA 12 Enclosure, Add</i>	799.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0048 EA 800 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE800).....	15,274.39	890.16
<i>For Four Pole Circuit Breaker, Add</i>	3,879.02	
<i>For NEMA 3R Enclosure, Add</i>	1,791.55	
<i>For NEMA 12 Enclosure, Add</i>	1,119.72	
26 36 23 00-0049 EA 1,000 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE1000).....	18,177.36	1,242.13
<i>For Four Pole Circuit Breaker, Add</i>	3,879.02	
<i>For NEMA 3R Enclosure, Add</i>	1,791.55	
<i>For NEMA 12 Enclosure, Add</i>	1,119.72	
26 36 23 00-0050 Accessories (26 36 23)		
26 36 23 00-0051 EA Auxiliary Contacts For Automatic Transfer Switch	185.56	
26 36 23 00-0052 EA Battery Charger For Automatic Transfer Switch	1,519.62	
26 36 23 00-0053 EA Elevator Relay Signal For Automatic Transfer Switch	551.86	

26 40 Electrical And Cathodic Protection (26)

26 43 Surge Protective Devices (26 40)

26 43 13 Surge Protective Devices for Low-Voltage Electrical Power Circuits (26 43)

26 43 13 00-0001	25 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression (26 43 13)		
Note: Liebert LPL			
26 43 13 00-0002 EA 120/240 Volt AC Single Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....		216.78	24.13
26 43 13 00-0003 EA 208 Volt AC Three Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor		233.87	24.13
26 43 13 00-0004 EA 240/120 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor		243.52	28.95
26 43 13 00-0005 EA 277 Volt AC Single Phase, 2 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....		202.24	19.30
26 43 13 00-0006 EA 480/277 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor		243.52	28.95
26 43 13 00-0007	50 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression (26 43 13)		
Note: Liebert LPL			
26 43 13 00-0008 EA 120/240 Volt AC Single Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....		301.04	24.13
26 43 13 00-0009 EA 208/120 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor		320.46	28.95
26 43 13 00-0010 EA 208 Volt AC Three Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor		310.81	24.13
26 43 13 00-0011 EA 480/277 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor		320.46	28.95
26 43 13 00-0012	100 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression (26 43 13)		
Note: Liebert LPL			
26 43 13 00-0013 EA 120/240 Volt AC Single Phase, 3 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....		364.54	24.13
26 43 13 00-0014 EA 208/120 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor		383.96	28.95
26 43 13 00-0015 EA 208 Volt AC Three Phase, 3 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor		340.24	19.30
26 43 13 00-0016 EA 480/277 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor		383.96	28.95
26 43 13 00-0017	100 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression (26 43 13)		
Note: Liebert LPM			
26 43 13 00-0018 EA 120/240 Volt AC Single Phase, 3 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....		430.49	24.13
26 43 13 00-0019 EA 208/120 Volt AC Three Phase, 4 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor		485.32	28.95
26 43 13 00-0020 EA 277 Volt AC Three Phase, 2 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor		407.40	19.30
26 43 13 00-0021	160 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression (26 43 13)		
Note: Liebert LPM			
26 43 13 00-0022 EA 208/120 Volt AC Single Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....		760.09	28.95
26 43 13 00-0023 EA 208 Volt AC Three Phase, 3 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor		750.44	24.13
26 43 13 00-0024 EA 480/277 Volt AC Three Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor		760.09	28.95
26 43 13 00-0025	250 kA, 500 Joule Transient Voltage Surge Suppression (26 43 13)		
Note: Liebert Interceptor Hybrid.			
26 43 13 00-0026 EA LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....		4,405.29	48.25
26 43 13 00-0027 EA Audible Alarm/LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor		5,382.25	48.25
26 43 13 00-0028	Class 1310 Transient Voltage Surge Suppression (26 43 13)		
Note: Supplied with audible alarm, alarm enable/disable switch and dry contacts. Square D.			
26 43 13 00-0029	NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0028)		
Note: Square D. EMA series.			
26 43 13 00-0030 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....		3,552.61	125.45
<i>For Integral Disconnect, Add</i>		265.68	
<i>For Surge Counter, Add</i>		203.04	
26 43 13 00-0031 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....		3,918.01	144.75
<i>For Integral Disconnect, Add</i>		265.68	
<i>For Surge Counter, Add</i>		203.04	

26	Electrical
26 40	Electrical And Cathodic Protection
26 43	Surge Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0032 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,726.61	168.87
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0033 EA 320 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,620.11	193.00
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0034 EA 480 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	11,276.86	265.38
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0035 EA 120 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,707.30	125.45
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0036 EA 160 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,087.94	144.75
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0037 EA 240 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,989.15	168.87
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0038 EA 320 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,961.07	193.00
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0039 EA 480 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	11,803.00	265.38
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0040 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,707.30	125.45
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0041 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,087.94	144.75
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0042 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,989.10	168.87
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0043 EA 320 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,961.07	193.00
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0044 EA 480 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	11,803.00	265.38
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0045 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,862.00	125.45
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0046 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,260.06	144.75
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0047 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	6,253.84	168.87
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0048 EA 320 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,304.27	193.00
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0049 EA 480 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	12,331.28	265.38
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0050 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,041.74	125.45
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0051 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,438.74	144.75
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0052 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	6,530.53	168.87
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0053 EA 320 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,663.74	193.00
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0054 EA 480 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	12,136.80	265.38
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0055 NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor ⁽²⁶		
^{43 13 00-0028)}		
Note: Square D EBA series.		
26 43 13 00-0056 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	2,768.33	125.45
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0057 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,345.07	144.75
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0058 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,905.28	168.87
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0059 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	2,856.57	125.45
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0060 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	3,475.78 265.68 203.04	144.75
26 43 13 00-0061 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,076.30 265.68 203.04	168.87
26 43 13 00-0062 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	2,856.57 265.68 203.04	125.45
26 43 13 00-0063 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	3,475.78 265.68 203.04	144.75
26 43 13 00-0064 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,076.30 265.68 203.04	168.87
26 43 13 00-0065 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	2,968.77 265.68 203.04	125.45
26 43 13 00-0066 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	3,616.31 265.68 203.04	144.75
26 43 13 00-0067 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,295.25 265.68 203.04	168.87
26 43 13 00-0068 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	3,086.42 265.68 203.04	125.45
26 43 13 00-0069 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	3,765.54 265.68 203.04	144.75
26 43 13 00-0070 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,525.09 265.68 203.04	168.87
26 43 13 00-0071 NEMA 4X Modular Device Transient Voltage Surge Suppressor <small>(26 43 13 00-0028)</small> Note: Square D EMA series. Stainless steel.		
26 43 13 00-0072 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,582.01 265.68 203.04	125.45
26 43 13 00-0073 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,947.41 265.68 203.04	144.75
26 43 13 00-0074 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	6,756.01 265.68 203.04	168.87
26 43 13 00-0075 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,736.70 265.68 203.04	125.45
26 43 13 00-0076 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,117.34 265.68 203.04	144.75
26 43 13 00-0077 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	7,018.55 265.68 203.04	168.87
26 43 13 00-0078 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,736.70 265.68 203.04	125.45
26 43 13 00-0079 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,117.34 265.68 203.04	144.75
26 43 13 00-0080 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	7,018.50 265.68 203.04	168.87
26 43 13 00-0081 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,891.40 265.68 203.04	125.45
26 43 13 00-0082 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,289.45 265.68 203.04	144.75
26 43 13 00-0083 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	7,283.24 265.68 203.04	168.87
26 43 13 00-0084 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,071.14 265.68 203.04	125.45
26 43 13 00-0085 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,468.13 265.68 203.04	144.75
26 43 13 00-0086 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	7,559.93 265.68 203.04	168.87

26 Electrical
26 40 Electrical And Cathodic Protection
26 43 Surge Protective Devices



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 43 13 00-0087	NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <small>(26 43 13 00-0028)</small> Note: Square D EBA series. Stainless steel.		
26 43 13 00-0088	EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	3,797.73 265.68 203.04	125.45
26 43 13 00-0089	EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,374.46 265.68 203.04	144.75
26 43 13 00-0090	EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,934.68 265.68 203.04	168.87
26 43 13 00-0091	EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	3,885.96 265.68 203.04	125.45
26 43 13 00-0092	EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,505.18 265.68 203.04	144.75
26 43 13 00-0093	EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	6,105.70 265.68 203.04	168.87
26 43 13 00-0094	EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	3,885.96 265.68 203.04	125.45
26 43 13 00-0095	EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,505.18 265.68 203.04	144.75
26 43 13 00-0096	EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	6,105.70 265.68 203.04	168.87
26 43 13 00-0097	EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	3,998.17 265.68 203.04	125.45
26 43 13 00-0098	EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,645.70 265.68 203.04	144.75
26 43 13 00-0099	EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	6,324.65 265.68 203.04	168.87
26 43 13 00-0100	EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,115.82 265.68 203.04	125.45
26 43 13 00-0101	EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,794.94 265.68 203.04	144.75
26 43 13 00-0102	EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	6,554.49 265.68 203.04	168.87

26 50 Lighting (26)

Note: Light fixtures include testing of fixture, a set of lamps (light bulbs), wire nuts, ground wire connector, fixture whip, ballast(s), mounting brackets where necessary and cable connectors. Lay-in fixtures include support wire, clips and seismic supports.

26 52 Safety Lighting (26 50)

26 52 00 00-0001 Commercial Emergency Lights (26 52)

26 52 00 00-0002 Polycarbonate Housing, Commercial Emergency Lights (26 52 00 00-0001)

Note: Includes lead-calcium batteries and two adjustable lamp heads.

26 52 00 00-0003	EA 3 Max Wattage At 90 Minutes, 3.6 Volt, Polycarbonate Housing, LED Lamps, Commercial Emergency Light (Lithonia ELM2 LED)	150.67	24.13
26 52 00 00-0004	EA 10.8 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM2)	107.63	24.13
	For Halogen Lamps, Add	27.55	
	For Self-Diagnostics, Add	87.50	
26 52 00 00-0005	EA 18 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM618)	163.96	24.13
	For Halogen Lamps, Add	27.55	
	For Self-Diagnostics, Add	87.50	
26 52 00 00-0006	EA 27 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM627).....	189.46	24.13
	For Halogen Lamps, Add	27.55	
	For Self-Diagnostics, Add	87.50	
26 52 00 00-0007	EA 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM654).....	277.11	24.13
	For Halogen Lamps, Add	27.55	
	For Self-Diagnostics, Add	87.50	
26 52 00 00-0008	EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1254).....	312.68	24.13
	For Halogen Lamps, Add	27.55	
	For Self-Diagnostics, Add	87.50	



Electrical	26	26
Lighting	26 50	
Safety Lighting	26 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 00 00-0009	EA		72 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1272)	451.29	24.13
			<i>For Halogen Lamps, Add</i>	27.55	
			<i>For Self-Diagnostics, Add</i>	87.50	
26 52 00 00-0010			Remote Heads For Commercial Emergency Lights (26 52 00 00-0001) Note: For use with fixtures that have remote capability.		
26 52 00 00-0011	EA		6 Watt, 6 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H0606).....	101.11	14.48
26 52 00 00-0012	EA		6 Watt, 6 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0606).....	101.75	14.48
26 52 00 00-0013	EA		8 Watt, 8 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0806).....	103.90	14.48
26 52 00 00-0014	EA		12 Watt, 12 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H1212).....	103.55	14.48
26 52 00 00-0015	EA		12 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H1212).....	90.34	14.48
26 52 00 00-0016	EA		12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	64.11	14.48
26 52 00 00-0017			Industrial Emergency Lights (26 52)		
26 52 00 00-0018			Painted Steel Housing, Industrial Emergency Lights (26 52 00 00-0017)		
26 52 00 00-0019			Painted Steel Housing, Industrial Emergency Lights (26 52 00 00-0018) Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 00 00-0020	EA		16 Max Wattage At 90 Minutes, 6 Volt, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT16).....	257.75	24.13
			<i>For Wireguard, Add</i>	126.05	
26 52 00 00-0021	EA		24 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT24)	217.94	24.13
			<i>For Wireguard, Add</i>	126.05	
26 52 00 00-0022	EA		36 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT36)	334.27	24.13
			<i>For Wireguard, Add</i>	126.05	
26 52 00 00-0023	EA		50 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT50).....	354.35	24.13
			<i>For Wireguard, Add</i>	126.05	
26 52 00 00-0024	EA		125 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT125).....	501.58	24.13
			<i>For Wireguard, Add</i>	134.25	
26 52 00 00-0025	EA		275 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT275).....	783.24	24.13
			<i>For Wireguard, Add</i>	134.25	
26 52 00 00-0026			Remote Heads For Painted Steel Housing, Industrial Emergency Lights (26 52 00 00-0019) Note: For use with fixtures that have remote capability.		
26 52 00 00-0027	EA		8 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N0806).....	79.23	14.48
			<i>For Wireguard, Add</i>	101.72	
26 52 00 00-0028	EA		12 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	81.73	14.48
			<i>For Wireguard, Add</i>	101.72	
26 52 00 00-0029	EA		8 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H0812)	79.58	14.48
			<i>For Wireguard, Add</i>	101.72	
26 52 00 00-0030	EA		12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1212).....	79.99	14.48
			<i>For Wireguard, Add</i>	101.72	
26 52 00 00-0031	EA		12 Watt, 25 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N2512).....	81.73	14.48
			<i>For Wireguard, Add</i>	101.72	
26 52 00 00-0032	EA		12 Watt, 25 Volt, Aluminum Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA MT N2512).....	94.42	14.48
			<i>For Wireguard, Add</i>	101.72	
26 52 00 00-0033			Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 00 00-0017)		
26 52 00 00-0034			Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 00 00-0033) Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 00 00-0035	EA		18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND618)	254.55	24.13
			<i>For Wireguard, Add</i>	122.56	
			<i>For Self-Diagnostics, Add</i>	105.50	
26 52 00 00-0036	EA		36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1236).....	275.79	24.13
			<i>For Wireguard, Add</i>	122.56	
			<i>For Self-Diagnostics, Add</i>	105.50	
26 52 00 00-0037	EA		54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND654).....	269.97	24.13
			<i>For Wireguard, Add</i>	122.56	
			<i>For Self-Diagnostics, Add</i>	105.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 00 00-0038 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1254).....	284.81	24.13
For Wireguard, Add	122.56	
For Self-Diagnostics, Add	105.50	
26 52 00 00-0039 EA 100 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND12100).....	472.78	24.13
For Wireguard, Add	122.56	
For Self-Diagnostics, Add	105.50	
26 52 00 00-0040 EA 18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX618)	373.55	24.13
For Wireguard, Add	122.56	
For Self-Diagnostics, Add	61.50	
26 52 00 00-0041 EA 36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1236).....	417.20	24.13
For Wireguard, Add	122.56	
For Self-Diagnostics, Add	61.50	
26 52 00 00-0042 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1254).....	439.31	24.13
For Wireguard, Add	122.56	
For Self-Diagnostics, Add	61.50	
26 52 00 00-0043 Remote Heads For Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights <small>(26 52 00 00-0033)</small>		
Note: For use with fixtures that have remote capability.		
26 52 00 00-0044 EA 9 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0906).....	69.63	14.48
26 52 00 00-0045 EA 12 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1206).....	74.69	14.48
26 52 00 00-0046 EA 9 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0912).....	69.69	14.48
26 52 00 00-0047 EA 12 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1212).....	73.41	14.48
26 52 00 00-0048 EA 12 Watt, 20 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H2012).....	63.84	14.48
26 52 00 00-0049 Outdoor Emergency Lights <small>(26 52)</small>		
26 52 00 00-0050 Gasketed Die-Cast Aluminum Housing, Outdoor Emergency Lights <small>(26 52 00 00-0049)</small>		
Note: Includes nickel-cadmium batteries.		
26 52 00 00-0051 EA 10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light (Dual-Lite PG Series).....	394.80	24.13
26 52 00 00-0052 EA 10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light With Heater (Dual-Lite PG Series).....	468.99	24.13
26 52 00 00-0053 Recessed Emergency Lights <small>(26 52)</small>		
26 52 00 00-0054 EA 10 Watts At 90 Minutes, 6 Volt, Halogen Lamp, 8" Round, Recessed High-Hat Emergency Light (Lithonia ELRG)	428.54	24.13
For Wire Guard, Add	60.00	
26 52 00 00-0055 EA 16 Watts At 90 Minutes, 6 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR2).....	352.69	48.25
Note: Includes lead-calcium batteries and two adjustable lamp heads.		
For Wireguard, Add	134.25	
26 52 00 00-0056 EA 50 Watts At 90 Minutes, 12 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR4).....	496.50	48.25
Note: Includes lead-calcium batteries and two adjustable lamp heads.		
For Wireguard, Add	134.25	
26 52 00 00-0057 Square Wraparound Emergency Lights <small>(26 52)</small>		
26 52 00 00-0058 EA 10 Watts At 90 Minutes, 6 Volt, Halogen Lamp, 10-5/16" x 10-5/16" Lexan Frame, Square Wraparound Emergency Light (Lithonia ELSQ)	201.73	24.13
26 53 Exit Signs <small>(26 50)</small>		
Note: Excludes pendants.		
26 53 00 00-0001 LED Exit Signs <small>(26 53)</small>		
Note: Includes red LED lamps.		
26 53 00 00-0002 EA Single Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM).....	129.47	35.27
For Green LED Lamps, Add	15.00	
26 53 00 00-0003 EA Double Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM)	129.47	35.27
For Green LED Lamps, Add	15.00	
26 53 00 00-0004 EA Single Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN).....	173.55	35.27
For Green LED Lamps, Add	15.00	
For Self-Diagnostics, Add	50.00	
26 53 00 00-0005 EA Double Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN)	173.55	35.27
For Green LED Lamps, Add	15.00	
For Self-Diagnostics, Add	50.00	
26 53 00 00-0006 EA Single Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC).....	189.30	35.27
For Green LED Lamps, Add	15.00	



Electrical	26	26
Lighting	26 50	
Exit Signs	26 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 53 00 00-0007	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC) <i>For Green LED Lamps, Add</i>	212.27 15.00	35.27
26 53 00 00-0008	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC ELN)..... <i>For Green LED Lamps, Add</i> <i>For Self-Diagnostics, Add</i>	179.70 15.00 50.00	35.27
26 53 00 00-0009	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC ELN) <i>For Green LED Lamps, Add</i> <i>For Self-Diagnostics, Add</i>	196.37 15.00 50.00	35.27
26 53 00 00-0010	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM) Note: Includes two circular side mounted krypton emergency lights. <i>For Green LED Lamps, Add</i>	230.36 15.00	35.27
26 53 00 00-0011	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM LED) Note: Includes two circular side mounted LED emergency lights. <i>For Green LED Lamps, Add</i>	357.19 15.00	35.27
26 53 00 00-0012	EA		Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM-PH) Note: Includes two rectangular front mounted high intensity tungsten emergency lights. <i>For Green LED Lamps, Add</i>	282.53 15.00	35.27
26 53 00 00-0013	EA		Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM)..... Note: Includes two circular side mounted PAR 36 emergency lights. <i>For Green LED Lamps, Add</i>	294.64 15.00	35.27
26 53 00 00-0014	EA		Single Or Double Face, Polycarbonate Housing, LED Emergency Exit Sign (Eaton Lighting APX6R).....	92.35	35.27
26 53 00 00-0015			Edge-Lit LED Exit Signs <small>(26 53)</small> Note: Includes red LED lamps.		
26 53 00 00-0016	EA		Single Face, Edge-Lit LED Exit Sign <i>For Green LED Lamps, Add</i>	256.67 40.00	35.27
26 53 00 00-0017	EA		Double Face, Edge-Lit LED Exit Sign <i>For Green LED Lamps, Add</i>	274.18 40.00	35.27
26 53 00 00-0018	EA		Single Face, Edge-Lit LED Exit Sign With Battery Back-Up <i>For Green LED Lamps, Add</i> <i>For Self-Diagnostics, Add</i>	310.73 40.00 50.00	35.27
26 53 00 00-0019	EA		Double Face, Edge-Lit LED Exit Sign With Battery Back-Up..... <i>For Green LED Lamps, Add</i> <i>For Self-Diagnostics, Add</i>	323.63 40.00 50.00	35.27
26 53 00 00-0020			Self-Luminous Tritium Exit Signs <small>(26 53)</small> Note: Includes red or green tritium filled pyrex glass light tubes with phosphor coating.		
26 53 00 00-0021	EA		10 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	342.90	35.27
26 53 00 00-0022	EA		10 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	614.95	35.27
26 53 00 00-0023	EA		20 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	404.87	35.27
26 53 00 00-0024	EA		20 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	664.71	35.27
26 53 00 00-0025	EA		10 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	373.74	35.27
26 53 00 00-0026	EA		10 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	664.71	35.27
26 53 00 00-0027	EA		20 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	454.34	35.27
26 53 00 00-0028	EA		20 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	820.67	35.27
26 53 00 00-0029			Vandal-Resistant LED Exit Signs <small>(26 53)</small> Note: Includes red LED lamps.		
26 53 00 00-0030	EA		Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign.....	324.57	35.27
26 53 00 00-0031	EA		Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup	493.04	35.27
26 53 00 00-0032	EA		Single Face, Aluminum Housing, NEMA 4X, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup.....	596.33	35.27
26 53 00 00-0033			Remove And Reinstall Exit Light Fixture <small>(26 53)</small>		
26 53 00 00-0034	EA		Removal And Reinstall Of Exit Light Fixtures Note: Includes storage and cleaning.	72.38	
26 53 00 00-0035			Exit Sign Accessories <small>(26 53)</small>		
26 53 00 00-0036	EA		Polycarbonate Vandal Shield For Exit Signs.....	77.50	9.66
26 53 00 00-0037	EA		Wire Guard For Exit Signs Or Emergency Lights.....	47.42	9.66
26 53 00 00-0038	EA		Replacement Battery For Exit Signs	78.80	12.08
26 55			Special Purpose Lighting <small>(26 50)</small>		
26 55 68			Athletic Field Lighting <small>(26 55)</small>		
26 55 68 00-0001			Sports Lighting System <small>(26 55 68)</small> Note: Musco.		
26 55 68 00-0002			Round Steel Tapered Poles <small>(26 55 68 00-0001)</small> Note: With Internal wiring harness.		
26 55 68 00-0003	EA		20' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	2,551.38	511.73
26 55 68 00-0004	EA		25' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	3,071.37	618.35
26 55 68 00-0005	EA		30' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	3,449.12	671.65



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 68 00-0006 EA 35' Steel Tapered Pole With Precast Concrete Foundation Sleeve	3,753.78	698.30
26 55 68 00-0007 EA 40' Steel Tapered Pole With Precast Concrete Foundation Sleeve	4,634.38	724.96
26 55 68 00-0008 EA 45' Steel Tapered Pole With Precast Concrete Foundation Sleeve	5,344.80	884.88
26 55 68 00-0009 EA 50' Steel Tapered Pole With Precast Concrete Foundation Sleeve	5,737.43	938.18
26 55 68 00-0010 EA 55' Steel Tapered Pole With Precast Concrete Foundation Sleeve	6,517.64	1,066.11
26 55 68 00-0011 EA 60' Steel Tapered Pole With Precast Concrete Foundation Sleeve	7,394.31	1,199.37
26 55 68 00-0012 EA 65' Steel Tapered Pole With Precast Concrete Foundation Sleeve	8,168.96	1,319.76
26 55 68 00-0013 EA 70' Steel Tapered Pole With Precast Concrete Foundation Sleeve	8,927.56	1,475.03
26 55 68 00-0014 EA 75' Steel Tapered Pole With Precast Concrete Foundation Sleeve	9,757.00	1,656.17
26 55 68 00-0015 EA 80' Steel Tapered Pole With Precast Concrete Foundation Sleeve	11,011.35	1,992.58
26 55 68 00-0016 Steel Pole Brackets (26 55 68 00-0001)		
26 55 68 00-0017 EA Two Light Bracket	391.96	53.31
26 55 68 00-0018 EA Three Light Bracket	494.35	74.62
26 55 68 00-0019 EA Four Light Bracket	708.80	90.62
26 55 68 00-0020 EA Five Light Bracket	809.03	106.61
26 55 68 00-0021 EA Six Light Bracket	979.93	122.60
26 55 68 00-0022 EA Seven Light Bracket	1,121.97	138.59
26 55 68 00-0023 EA Eight Light Bracket	1,282.11	159.92
26 55 68 00-0024 EA Nine Light Bracket	1,447.74	175.91
26 55 68 00-0025 Light Fixtures (26 55 68 00-0001)		
26 55 68 00-0026 EA 120 or 270 Volt, Sportlite Fixtures Complete with 1,000 Watt Metal Halide Lamp, Hook Cord And Plug..... For 1,500 Watt Metal Halide Lamp, Add	1,617.76 8.36	
26 55 68 00-0027 Electrical Component Enclosure (26 55 68 00-0001)		
Note: Pole mounted NEMA 3R enclosure with thermal magnetic breaker and multiple ballasts to match total light fixtures. For light structures with more than 6 lights, use multiple enclosures.		
26 55 68 00-0028 EA Electrical Component Enclosure For 2 Lights, Pole Mounted	597.58	62.73
26 55 68 00-0029 EA Electrical Component Enclosure For 3 Lights, Pole Mounted	898.05	96.51
26 55 68 00-0030 EA Electrical Component Enclosure For 4 Lights, Pole Mounted	1,029.20	120.63
26 55 68 00-0031 EA Electrical Component Enclosure For 5 Lights, Pole Mounted	1,327.79	135.10
26 55 68 00-0032 EA Electrical Component Enclosure For 6 Lights, Pole Mounted	1,490.40	144.75
26 55 68 00-0033 Accessories (26 55 68 00-0001)		
26 55 68 00-0034 EA Time Delay Kit (Musco®)	681.24	193.28
26 55 68 00-0035 EA Remote Switch Box Push Button (Musco®)	1,270.62	193.28
26 55 68 00-0036 EA Push Button Strobe Kit (Musco®)	1,506.37	193.28
26 55 68 00-0037 EA Additional Control-Link Unit (Musco®)	7,053.46	579.84
26 55 68 00-0038 EA Auxiliary Brackets For Speakers Or Egress Fixtures, For New Installations (Musco®)	782.38	96.51
26 55 68 00-0039 EA Auxiliary Brackets For Speakers Or Egress Fixtures, For Retrofit Applications (Musco®)	975.38	193.00
26 56 Exterior Lighting (26 50)		
26 56 13 Lighting Poles And Standards (26 56)		
26 56 13 00-0001 Poles And Standards (26 56 13)		
See CSI section 26 05 46 00-0000 for additional poles, 26 05 46 00-0001 for additional pole, 26 56 16 00-0000 for street light fixtures.		
26 56 13 00-0002 Roadway Light Poles (26 56 13 00-0001)		
Note: Excludes lighting fixtures.		
26 56 13 00-0003 Steel Roadway Light Poles (26 56 13 00-0002)		
Note: Includes prime painted finish, anchor bolts, steel base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0004 Round Tapered, Steel Roadway Light Poles (26 56 13 00-0003)		
26 56 13 00-0005 Round Tapered, Steel Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0004)		
26 56 13 00-0006 Round Tapered, Steel Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0005)		
26 56 13 00-0007 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,214.93	319.84
For Galvanized Finish, Add		
For >10 To 20, Deduct	77.26	
For >20 To 40, Deduct	-80.37	
For >40, Deduct	-160.75	
For >40, Deduct	-257.11	
26 56 13 00-0008 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,221.29	319.84
For Galvanized Finish, Add		
For >10 To 20, Deduct	77.45	
For >20 To 40, Deduct	-80.53	
For >40, Deduct	-161.06	
For >40, Deduct	-257.59	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0009	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,472.24	426.45
			<i>For Galvanized Finish, Add</i>	78.58	
			<i>For >10 To 20, Deduct</i>	-86.81	
			<i>For >20 To 40, Deduct</i>	-173.61	
			<i>For >40, Deduct</i>	-281.74	
26 56 13 00-0010	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,548.77	426.45
			<i>For Galvanized Finish, Add</i>	80.88	
			<i>For >10 To 20, Deduct</i>	-88.72	
			<i>For >20 To 40, Deduct</i>	-177.44	
			<i>For >40, Deduct</i>	-287.48	
26 56 13 00-0011	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,625.31	426.45
			<i>For Galvanized Finish, Add</i>	83.17	
			<i>For >10 To 20, Deduct</i>	-90.63	
			<i>For >20 To 40, Deduct</i>	-181.27	
			<i>For >40, Deduct</i>	-293.22	
26 56 13 00-0012	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,748.04	479.76
			<i>For Galvanized Finish, Add</i>	83.66	
			<i>For >10 To 20, Deduct</i>	-93.70	
			<i>For >20 To 40, Deduct</i>	-187.40	
			<i>For >40, Deduct</i>	-305.09	
26 56 13 00-0013	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,784.33	479.76
			<i>For Galvanized Finish, Add</i>	84.74	
			<i>For >10 To 20, Deduct</i>	-94.61	
			<i>For >20 To 40, Deduct</i>	-189.22	
			<i>For >40, Deduct</i>	-307.81	
26 56 13 00-0014	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,791.24	479.76
			<i>For Galvanized Finish, Add</i>	84.95	
			<i>For >10 To 20, Deduct</i>	-94.78	
			<i>For >20 To 40, Deduct</i>	-189.56	
			<i>For >40, Deduct</i>	-308.33	
26 56 13 00-0015	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,973.39	506.40
			<i>For Galvanized Finish, Add</i>	88.82	
			<i>For >10 To 20, Deduct</i>	-99.33	
			<i>For >20 To 40, Deduct</i>	-198.67	
			<i>For >40, Deduct</i>	-323.32	
26 56 13 00-0016	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,000.81	506.40
			<i>For Galvanized Finish, Add</i>	89.64	
			<i>For >10 To 20, Deduct</i>	-100.02	
			<i>For >20 To 40, Deduct</i>	-200.04	
			<i>For >40, Deduct</i>	-325.38	
26 56 13 00-0017	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,030.74	506.40
			<i>For Galvanized Finish, Add</i>	90.54	
			<i>For >10 To 20, Deduct</i>	-100.77	
			<i>For >20 To 40, Deduct</i>	-201.54	
			<i>For >40, Deduct</i>	-327.63	
26 56 13 00-0018	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,620.23	533.05
			<i>For Galvanized Finish, Add</i>	106.62	
			<i>For >10 To 20, Deduct</i>	-115.51	
			<i>For >20 To 40, Deduct</i>	-231.01	
			<i>For >40, Deduct</i>	-373.17	
26 56 13 00-0019	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,629.99	533.05
			<i>For Galvanized Finish, Add</i>	106.92	
			<i>For >10 To 20, Deduct</i>	-115.75	
			<i>For >20 To 40, Deduct</i>	-231.50	
			<i>For >40, Deduct</i>	-373.90	
26 56 13 00-0020	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,639.64	533.05
			<i>For Galvanized Finish, Add</i>	107.21	
			<i>For >10 To 20, Deduct</i>	-115.99	
			<i>For >20 To 40, Deduct</i>	-231.98	
			<i>For >40, Deduct</i>	-374.63	
26 56 13 00-0021			Round Tapered, Steel Roadway Light Poles With Two Upsweep Style Arms		
			<small>(26 56 13 00-0005)</small>		
26 56 13 00-0022	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,016.19	373.14
			<i>For Galvanized Finish, Add</i>	98.10	
			<i>For >10 To 20, Deduct</i>	-100.40	
			<i>For >20 To 40, Deduct</i>	-200.81	
			<i>For >40, Deduct</i>	-319.87	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0023	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,083.74	386.46
			<i>For Galvanized Finish, Add</i>	99.32	
			<i>For >10 To 20, Deduct</i>	-102.09	
			<i>For >20 To 40, Deduct</i>	-204.19	
			<i>For >40, Deduct</i>	-325.60	
26 56	13 00-0024	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,141.20	399.79
			<i>For Galvanized Finish, Add</i>	100.25	
			<i>For >10 To 20, Deduct</i>	-103.53	
			<i>For >20 To 40, Deduct</i>	-207.06	
			<i>For >40, Deduct</i>	-330.58	
26 56	13 00-0025	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,964.27	479.76
			<i>For Galvanized Finish, Add</i>	90.14	
			<i>For >10 To 20, Deduct</i>	-99.11	
			<i>For >20 To 40, Deduct</i>	-198.21	
			<i>For >40, Deduct</i>	-321.31	
26 56	13 00-0026	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,007.15	493.07
			<i>For Galvanized Finish, Add</i>	90.63	
			<i>For >10 To 20, Deduct</i>	-100.18	
			<i>For >20 To 40, Deduct</i>	-200.36	
			<i>For >40, Deduct</i>	-325.19	
26 56	13 00-0027	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,040.39	506.40
			<i>For Galvanized Finish, Add</i>	90.83	
			<i>For >10 To 20, Deduct</i>	-101.01	
			<i>For >20 To 40, Deduct</i>	-202.02	
			<i>For >40, Deduct</i>	-328.35	
26 56	13 00-0028	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,271.32	533.05
			<i>For Galvanized Finish, Add</i>	96.16	
			<i>For >10 To 20, Deduct</i>	-106.78	
			<i>For >20 To 40, Deduct</i>	-213.57	
			<i>For >40, Deduct</i>	-347.00	
26 56	13 00-0029	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,307.84	546.38
			<i>For Galvanized Finish, Add</i>	96.45	
			<i>For >10 To 20, Deduct</i>	-107.70	
			<i>For >20 To 40, Deduct</i>	-215.39	
			<i>For >40, Deduct</i>	-350.41	
26 56	13 00-0030	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,340.75	559.71
			<i>For Galvanized Finish, Add</i>	96.64	
			<i>For >10 To 20, Deduct</i>	-108.52	
			<i>For >20 To 40, Deduct</i>	-217.04	
			<i>For >40, Deduct</i>	-353.54	
26 56	13 00-0031	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,534.62	559.71
			<i>For Galvanized Finish, Add</i>	102.46	
			<i>For >10 To 20, Deduct</i>	-113.37	
			<i>For >20 To 40, Deduct</i>	-226.73	
			<i>For >40, Deduct</i>	-368.08	
26 56	13 00-0032	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,603.70	573.04
			<i>For Galvanized Finish, Add</i>	103.73	
			<i>For >10 To 20, Deduct</i>	-115.09	
			<i>For >20 To 40, Deduct</i>	-230.19	
			<i>For >40, Deduct</i>	-373.93	
26 56	13 00-0033	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,670.60	586.36
			<i>For Galvanized Finish, Add</i>	104.94	
			<i>For >10 To 20, Deduct</i>	-116.77	
			<i>For >20 To 40, Deduct</i>	-233.53	
			<i>For >40, Deduct</i>	-379.61	
26 56	13 00-0034	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	5,143.75	586.36
			<i>For Galvanized Finish, Add</i>	119.13	
			<i>For >10 To 20, Deduct</i>	-128.59	
			<i>For >20 To 40, Deduct</i>	-257.19	
			<i>For >40, Deduct</i>	-415.10	
26 56	13 00-0035	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	5,176.75	599.69
			<i>For Galvanized Finish, Add</i>	119.32	
			<i>For >10 To 20, Deduct</i>	-129.42	
			<i>For >20 To 40, Deduct</i>	-258.84	
			<i>For >40, Deduct</i>	-418.24	
26 56	13 00-0036	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	5,209.99	613.02
			<i>For Galvanized Finish, Add</i>	119.52	
			<i>For >10 To 20, Deduct</i>	-130.25	
			<i>For >20 To 40, Deduct</i>	-260.50	
			<i>For >40, Deduct</i>	-421.40	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0037 Round Tapered, Steel Roadway Light Poles With Three Upsweep Style Arms <small>(26 56 13 00-0005)</small>		
26 56 13 00-0038 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,671.99	533.05
For Galvanized Finish, Add	108.18	
For >10 To 20, Deduct	-116.80	
For >20 To 40, Deduct	-233.60	
For >40, Deduct	-377.05	
26 56 13 00-0039 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,731.77	559.71
For Galvanized Finish, Add	108.37	
For >10 To 20, Deduct	-118.29	
For >20 To 40, Deduct	-236.59	
For >40, Deduct	-382.87	
26 56 13 00-0040 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,801.20	586.36
For Galvanized Finish, Add	108.85	
For >10 To 20, Deduct	-120.03	
For >20 To 40, Deduct	-240.06	
For >40, Deduct	-389.41	
26 56 13 00-0041 EA 30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,940.24	586.36
For Galvanized Finish, Add	113.03	
For >10 To 20, Deduct	-123.51	
For >20 To 40, Deduct	-247.01	
For >40, Deduct	-399.84	
26 56 13 00-0042 EA 30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,003.08	613.02
For Galvanized Finish, Add	113.31	
For >10 To 20, Deduct	-125.08	
For >20 To 40, Deduct	-250.15	
For >40, Deduct	-405.88	
26 56 13 00-0043 EA 30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	5,062.85	639.66
For Galvanized Finish, Add	113.51	
For >10 To 20, Deduct	-126.57	
For >20 To 40, Deduct	-253.14	
For >40, Deduct	-411.70	
26 56 13 00-0044 EA 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	5,258.23	613.02
For Galvanized Finish, Add	120.97	
For >10 To 20, Deduct	-131.46	
For >20 To 40, Deduct	-262.91	
For >40, Deduct	-425.02	
26 56 13 00-0045 EA 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,318.01	639.66
For Galvanized Finish, Add	121.16	
For >10 To 20, Deduct	-132.95	
For >20 To 40, Deduct	-265.90	
For >40, Deduct	-430.83	
26 56 13 00-0046 EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	5,377.78	666.32
For Galvanized Finish, Add	121.35	
For >10 To 20, Deduct	-134.44	
For >20 To 40, Deduct	-268.89	
For >40, Deduct	-436.65	
26 56 13 00-0047 EA 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	5,667.25	639.66
For Galvanized Finish, Add	131.64	
For >10 To 20, Deduct	-141.68	
For >20 To 40, Deduct	-283.36	
For >40, Deduct	-457.03	
26 56 13 00-0048 EA 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,726.69	666.32
For Galvanized Finish, Add	131.82	
For >10 To 20, Deduct	-143.17	
For >20 To 40, Deduct	-286.33	
For >40, Deduct	-462.82	
26 56 13 00-0049 EA 40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	5,792.94	692.97
For Galvanized Finish, Add	132.21	
For >10 To 20, Deduct	-144.82	
For >20 To 40, Deduct	-289.65	
For >40, Deduct	-469.12	
26 56 13 00-0050 Round Tapered, Steel Roadway Light Poles With Four Upsweep Style Arms <small>(26 56 13 00-0005)</small>		
26 56 13 00-0051 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,198.68	586.36
For Galvanized Finish, Add	120.78	
For >10 To 20, Deduct	-129.97	
For >20 To 40, Deduct	-259.93	
For >40, Deduct	-419.22	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0052	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,288.28	626.35
			<i>For Galvanized Finish, Add</i>	121.07	
			<i>For >10 To 20, Deduct</i>	-132.21	
			<i>For >20 To 40, Deduct</i>	-264.41	
			<i>For >40, Deduct</i>	-427.94	
26 56 13 00-0053	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,374.60	666.32
			<i>For Galvanized Finish, Add</i>	121.26	
			<i>For >10 To 20, Deduct</i>	-134.37	
			<i>For >20 To 40, Deduct</i>	-268.73	
			<i>For >40, Deduct</i>	-436.41	
26 56 13 00-0054	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,506.50	639.66
			<i>For Galvanized Finish, Add</i>	126.81	
			<i>For >10 To 20, Deduct</i>	-137.66	
			<i>For >20 To 40, Deduct</i>	-275.33	
			<i>For >40, Deduct</i>	-444.97	
26 56 13 00-0055	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,593.25	679.65
			<i>For Galvanized Finish, Add</i>	127.02	
			<i>For >10 To 20, Deduct</i>	-139.83	
			<i>For >20 To 40, Deduct</i>	-279.66	
			<i>For >40, Deduct</i>	-453.48	
26 56 13 00-0056	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,642.74	719.63
			<i>For Galvanized Finish, Add</i>	126.10	
			<i>For >10 To 20, Deduct</i>	-141.07	
			<i>For >20 To 40, Deduct</i>	-282.14	
			<i>For >40, Deduct</i>	-459.19	
26 56 13 00-0057	EA		35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,927.03	666.32
			<i>For Galvanized Finish, Add</i>	137.83	
			<i>For >10 To 20, Deduct</i>	-148.18	
			<i>For >20 To 40, Deduct</i>	-296.35	
			<i>For >40, Deduct</i>	-477.84	
26 56 13 00-0058	EA		35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	6,057.42	706.30
			<i>For Galvanized Finish, Add</i>	139.34	
			<i>For >10 To 20, Deduct</i>	-151.44	
			<i>For >20 To 40, Deduct</i>	-302.87	
			<i>For >40, Deduct</i>	-489.62	
26 56 13 00-0059	EA		35' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	6,103.27	746.28
			<i>For Galvanized Finish, Add</i>	138.32	
			<i>For >10 To 20, Deduct</i>	-152.58	
			<i>For >20 To 40, Deduct</i>	-305.16	
			<i>For >40, Deduct</i>	-495.06	
26 56 13 00-0060	EA		40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	6,190.43	692.97
			<i>For Galvanized Finish, Add</i>	144.13	
			<i>For >10 To 20, Deduct</i>	-154.76	
			<i>For >20 To 40, Deduct</i>	-309.52	
			<i>For >40, Deduct</i>	-498.93	
26 56 13 00-0061	EA		40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	6,276.75	732.96
			<i>For Galvanized Finish, Add</i>	144.33	
			<i>For >10 To 20, Deduct</i>	-156.92	
			<i>For >20 To 40, Deduct</i>	-313.84	
			<i>For >40, Deduct</i>	-507.40	
26 56 13 00-0062	EA		40' High, 10.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	6,366.35	772.93
			<i>For Galvanized Finish, Add</i>	144.61	
			<i>For >10 To 20, Deduct</i>	-159.16	
			<i>For >20 To 40, Deduct</i>	-318.32	
			<i>For >40, Deduct</i>	-516.12	
26 56 13 00-0063			Round Tapered, Steel Roadway Light Poles With Davit Style Arm <small>(26 56 13 00-0064)</small>		
26 56 13 00-0064			Round Tapered, Steel Roadway Light Poles With Single Davit Style Arm <small>(26 56 13 00-0063)</small>		
26 56 13 00-0065	EA		25' High, 6.4" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	3,709.08	426.45
			<i>For Galvanized Finish, Add</i>	85.69	
			<i>For >10 To 20, Deduct</i>	-92.73	
			<i>For >20 To 40, Deduct</i>	-185.45	
			<i>For >40, Deduct</i>	-299.50	
26 56 13 00-0066	EA		30' High, 7.1" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	4,198.49	479.76
			<i>For Galvanized Finish, Add</i>	97.17	
			<i>For >10 To 20, Deduct</i>	-104.96	
			<i>For >20 To 40, Deduct</i>	-209.92	
			<i>For >40, Deduct</i>	-338.87	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0067	EA		35' High, 7.8" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....	4,305.09	506.40
			<i>For Galvanized Finish, Add</i>	98.77	
			<i>For >10 To 20, Deduct</i>	-107.63	
			<i>For >20 To 40, Deduct</i>	-215.25	
			<i>For >40, Deduct</i>	-348.20	
26 56 13 00-0068	EA		40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....	5,175.95	533.05
			<i>For Galvanized Finish, Add</i>	123.30	
			<i>For >10 To 20, Deduct</i>	-129.40	
			<i>For >20 To 40, Deduct</i>	-258.80	
			<i>For >40, Deduct</i>	-414.85	
26 56 13 00-0069			Round Tapered, Steel Roadway Light Poles With Truss Style Arms <small>(26 56 13 00-0004)</small>		
26 56 13 00-0070			Round Tapered, Steel Roadway Light Poles With Single Truss Style Arm <small>(26 56 13 00-0069)</small>		
26 56 13 00-0071	EA		25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,852.42	426.45
			<i>For Galvanized Finish, Add</i>	119.99	
			<i>For >10 To 20, Deduct</i>	-121.31	
			<i>For >20 To 40, Deduct</i>	-242.62	
			<i>For >40, Deduct</i>	-385.25	
26 56 13 00-0072	EA		25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,901.43	426.45
			<i>For Galvanized Finish, Add</i>	121.46	
			<i>For >10 To 20, Deduct</i>	-122.54	
			<i>For >20 To 40, Deduct</i>	-245.07	
			<i>For >40, Deduct</i>	-388.93	
26 56 13 00-0073	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,923.80	426.45
			<i>For Galvanized Finish, Add</i>	122.13	
			<i>For >10 To 20, Deduct</i>	-123.10	
			<i>For >20 To 40, Deduct</i>	-246.19	
			<i>For >40, Deduct</i>	-390.61	
26 56 13 00-0074	EA		30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	5,008.04	479.76
			<i>For Galvanized Finish, Add</i>	121.46	
			<i>For >10 To 20, Deduct</i>	-125.20	
			<i>For >20 To 40, Deduct</i>	-250.40	
			<i>For >40, Deduct</i>	-399.59	
26 56 13 00-0075	EA		30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	5,016.59	479.76
			<i>For Galvanized Finish, Add</i>	121.71	
			<i>For >10 To 20, Deduct</i>	-125.41	
			<i>For >20 To 40, Deduct</i>	-250.83	
			<i>For >40, Deduct</i>	-400.23	
26 56 13 00-0076	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,104.97	479.76
			<i>For Galvanized Finish, Add</i>	124.36	
			<i>For >10 To 20, Deduct</i>	-127.62	
			<i>For >20 To 40, Deduct</i>	-255.25	
			<i>For >40, Deduct</i>	-406.86	
26 56 13 00-0077	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	5,090.41	506.40
			<i>For Galvanized Finish, Add</i>	122.33	
			<i>For >10 To 20, Deduct</i>	-127.26	
			<i>For >20 To 40, Deduct</i>	-254.52	
			<i>For >40, Deduct</i>	-407.10	
26 56 13 00-0078	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	5,142.16	506.40
			<i>For Galvanized Finish, Add</i>	123.88	
			<i>For >10 To 20, Deduct</i>	-128.55	
			<i>For >20 To 40, Deduct</i>	-257.11	
			<i>For >40, Deduct</i>	-410.98	
26 56 13 00-0079	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,413.55	506.40
			<i>For Galvanized Finish, Add</i>	132.02	
			<i>For >10 To 20, Deduct</i>	-135.34	
			<i>For >20 To 40, Deduct</i>	-270.68	
			<i>For >40, Deduct</i>	-431.34	
26 56 13 00-0080			Round Tapered, Steel Roadway Light Poles With Two Truss Style Arms <small>(26 56 13 00-0069)</small>		
26 56 13 00-0081	EA		25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,369.61	533.05
			<i>For Galvanized Finish, Add</i>	159.11	
			<i>For >10 To 20, Deduct</i>	-159.24	
			<i>For >20 To 40, Deduct</i>	-318.48	
			<i>For >40, Deduct</i>	-504.37	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0082	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	6,469.85	559.71
			<i>For Galvanized Finish, Add</i>	160.51	
			<i>For >10 To 20, Deduct</i>	-161.75	
			<i>For >20 To 40, Deduct</i>	-323.49	
			<i>For >40, Deduct</i>	-513.22	
26 56	13 00-0083	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	6,707.37	586.36
			<i>For Galvanized Finish, Add</i>	166.04	
			<i>For >10 To 20, Deduct</i>	-167.68	
			<i>For >20 To 40, Deduct</i>	-335.37	
			<i>For >40, Deduct</i>	-532.37	
26 56	13 00-0084	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	6,449.04	586.36
			<i>For Galvanized Finish, Add</i>	158.29	
			<i>For >10 To 20, Deduct</i>	-161.23	
			<i>For >20 To 40, Deduct</i>	-322.45	
			<i>For >40, Deduct</i>	-513.00	
26 56	13 00-0085	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	6,744.77	613.02
			<i>For Galvanized Finish, Add</i>	165.56	
			<i>For >10 To 20, Deduct</i>	-168.62	
			<i>For >20 To 40, Deduct</i>	-337.24	
			<i>For >40, Deduct</i>	-536.51	
26 56	13 00-0086	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	6,917.39	639.66
			<i>For Galvanized Finish, Add</i>	169.14	
			<i>For >10 To 20, Deduct</i>	-172.93	
			<i>For >20 To 40, Deduct</i>	-345.87	
			<i>For >40, Deduct</i>	-550.79	
26 56	13 00-0087	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	6,637.76	613.02
			<i>For Galvanized Finish, Add</i>	162.35	
			<i>For >10 To 20, Deduct</i>	-165.94	
			<i>For >20 To 40, Deduct</i>	-331.89	
			<i>For >40, Deduct</i>	-528.48	
26 56	13 00-0088	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	7,036.91	639.66
			<i>For Galvanized Finish, Add</i>	172.73	
			<i>For >10 To 20, Deduct</i>	-175.92	
			<i>For >20 To 40, Deduct</i>	-351.85	
			<i>For >40, Deduct</i>	-559.75	
26 56	13 00-0089	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	7,267.84	666.32
			<i>For Galvanized Finish, Add</i>	178.06	
			<i>For >10 To 20, Deduct</i>	-181.70	
			<i>For >20 To 40, Deduct</i>	-363.39	
			<i>For >40, Deduct</i>	-578.40	
26 56	13 00-0090		Aluminum Roadway Light Poles <small>(26 56 13 00-0090)</small> Note: Includes satin finish, anchor bolts, cast aluminum base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56	13 00-0091		Round Tapered, Aluminum Roadway Light Poles <small>(26 56 13 00-0090)</small>		
26 56	13 00-0092		Round Tapered, Aluminum Roadway Light Poles With Upsweep Style Arms <small>(26 56 13 00-0091)</small>		
26 56	13 00-0093		Round Tapered, Aluminum Roadway Light Poles With Single Upsweep Style Arm <small>(26 56 13 00-0092)</small>		
26 56	13 00-0094	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,122.43	319.84
			<i>For >10 To 20, Deduct</i>	-78.06	
			<i>For >20 To 40, Deduct</i>	-156.12	
			<i>For >40, Deduct</i>	-250.17	
26 56	13 00-0095	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,152.48	319.84
			<i>For >10 To 20, Deduct</i>	-78.81	
			<i>For >20 To 40, Deduct</i>	-157.62	
			<i>For >40, Deduct</i>	-252.43	
26 56	13 00-0096	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,789.32	426.45
			<i>For >10 To 20, Deduct</i>	-94.73	
			<i>For >20 To 40, Deduct</i>	-189.47	
			<i>For >40, Deduct</i>	-305.52	
26 56	13 00-0097	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,846.11	426.45
			<i>For >10 To 20, Deduct</i>	-96.15	
			<i>For >20 To 40, Deduct</i>	-192.31	
			<i>For >40, Deduct</i>	-309.78	
26 56	13 00-0098	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	3,898.33	426.45
			<i>For >10 To 20, Deduct</i>	-97.46	
			<i>For >20 To 40, Deduct</i>	-194.92	
			<i>For >40, Deduct</i>	-313.70	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0099	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,360.56	479.76
			<i>For >10 To 20, Deduct</i>	-109.01	
			<i>For >20 To 40, Deduct</i>	-218.03	
			<i>For >40, Deduct</i>	-351.03	
26 56	13 00-0100	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,408.47	479.76
			<i>For >10 To 20, Deduct</i>	-110.21	
			<i>For >20 To 40, Deduct</i>	-220.42	
			<i>For >40, Deduct</i>	-354.62	
26 56	13 00-0101	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,462.06	479.76
			<i>For >10 To 20, Deduct</i>	-111.55	
			<i>For >20 To 40, Deduct</i>	-223.10	
			<i>For >40, Deduct</i>	-358.64	
26 56	13 00-0102	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	5,171.90	506.40
			<i>For >10 To 20, Deduct</i>	-129.30	
			<i>For >20 To 40, Deduct</i>	-258.60	
			<i>For >40, Deduct</i>	-413.21	
26 56	13 00-0103	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	5,219.69	506.40
			<i>For >10 To 20, Deduct</i>	-130.49	
			<i>For >20 To 40, Deduct</i>	-260.98	
			<i>For >40, Deduct</i>	-416.80	
26 56	13 00-0104	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	5,259.73	506.40
			<i>For >10 To 20, Deduct</i>	-131.49	
			<i>For >20 To 40, Deduct</i>	-262.99	
			<i>For >40, Deduct</i>	-419.80	
26 56 13 00-0105		Round Tapered, Aluminum Roadway Light Poles With Two Upsweep Style Arms <small>(26 56 13 00-0092)</small>			
26 56	13 00-0106	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,570.25	373.14
			<i>For >10 To 20, Deduct</i>	-89.26	
			<i>For >20 To 40, Deduct</i>	-178.51	
			<i>For >40, Deduct</i>	-286.43	
26 56	13 00-0107	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,864.77	373.14
			<i>For >10 To 20, Deduct</i>	-96.62	
			<i>For >20 To 40, Deduct</i>	-193.24	
			<i>For >40, Deduct</i>	-308.51	
26 56	13 00-0108	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,975.47	399.79
			<i>For >10 To 20, Deduct</i>	-99.39	
			<i>For >20 To 40, Deduct</i>	-198.77	
			<i>For >40, Deduct</i>	-318.15	
26 56	13 00-0109	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,221.00	479.76
			<i>For >10 To 20, Deduct</i>	-105.53	
			<i>For >20 To 40, Deduct</i>	-211.05	
			<i>For >40, Deduct</i>	-340.56	
26 56	13 00-0110	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,435.12	493.07
			<i>For >10 To 20, Deduct</i>	-110.88	
			<i>For >20 To 40, Deduct</i>	-221.76	
			<i>For >40, Deduct</i>	-357.29	
26 56	13 00-0111	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,750.63	506.40
			<i>For >10 To 20, Deduct</i>	-118.77	
			<i>For >20 To 40, Deduct</i>	-237.53	
			<i>For >40, Deduct</i>	-381.62	
26 56	13 00-0112	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,895.46	533.05
			<i>For >10 To 20, Deduct</i>	-122.39	
			<i>For >20 To 40, Deduct</i>	-244.77	
			<i>For >40, Deduct</i>	-393.81	
26 56	13 00-0113	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	5,096.03	546.38
			<i>For >10 To 20, Deduct</i>	-127.40	
			<i>For >20 To 40, Deduct</i>	-254.80	
			<i>For >40, Deduct</i>	-409.52	
26 56	13 00-0114	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	5,344.17	559.71
			<i>For >10 To 20, Deduct</i>	-133.60	
			<i>For >20 To 40, Deduct</i>	-267.21	
			<i>For >40, Deduct</i>	-428.80	
26 56	13 00-0115	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	5,604.69	559.71
			<i>For >10 To 20, Deduct</i>	-140.12	
			<i>For >20 To 40, Deduct</i>	-280.23	
			<i>For >40, Deduct</i>	-448.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0116 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	6,173.56	573.04
For >10 To 20, Deduct	-154.34	
For >20 To 40, Deduct	-308.68	
For >40, Deduct	-491.67	
26 56 13 00-0117 EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	6,837.67	586.36
For >10 To 20, Deduct	-170.94	
For >20 To 40, Deduct	-341.88	
For >40, Deduct	-542.14	
26 56 13 00-0118 Round Tapered, Aluminum Roadway Light Poles With Three Upsweep Style Arms (26 56 13 00-0092)		
26 56 13 00-0119 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,150.97	426.45
For >10 To 20, Deduct	-103.77	
For >20 To 40, Deduct	-207.55	
For >40, Deduct	-332.65	
26 56 13 00-0120 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,442.51	453.10
For >10 To 20, Deduct	-111.06	
For >20 To 40, Deduct	-222.13	
For >40, Deduct	-355.84	
26 56 13 00-0121 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	5,031.07	533.05
For >10 To 20, Deduct	-125.78	
For >20 To 40, Deduct	-251.55	
For >40, Deduct	-403.98	
26 56 13 00-0122 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	5,241.93	559.71
For >10 To 20, Deduct	-131.05	
For >20 To 40, Deduct	-262.10	
For >40, Deduct	-421.13	
26 56 13 00-0123 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	5,489.49	586.36
For >10 To 20, Deduct	-137.24	
For >20 To 40, Deduct	-274.47	
For >40, Deduct	-441.03	
26 56 13 00-0124 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	5,678.41	613.02
For >10 To 20, Deduct	-141.96	
For >20 To 40, Deduct	-283.92	
For >40, Deduct	-456.53	
26 56 13 00-0125 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	5,960.48	613.02
For >10 To 20, Deduct	-149.01	
For >20 To 40, Deduct	-298.02	
For >40, Deduct	-477.69	
26 56 13 00-0126 EA 35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	6,514.39	639.66
For >10 To 20, Deduct	-162.86	
For >20 To 40, Deduct	-325.72	
For >40, Deduct	-520.56	
26 56 13 00-0127 EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	6,682.30	666.32
For >10 To 20, Deduct	-167.06	
For >20 To 40, Deduct	-334.12	
For >40, Deduct	-534.49	
26 56 13 00-0128 Round Tapered, Aluminum Roadway Light Poles With Four Upsweep Style Arms (26 56 13 00-0092)		
26 56 13 00-0129 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	4,256.84	479.76
For >10 To 20, Deduct	-106.42	
For >20 To 40, Deduct	-212.84	
For >40, Deduct	-343.25	
26 56 13 00-0130 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	4,437.17	479.76
For >10 To 20, Deduct	-110.93	
For >20 To 40, Deduct	-221.86	
For >40, Deduct	-356.78	
26 56 13 00-0131 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,500.70	586.36
For >10 To 20, Deduct	-137.52	
For >20 To 40, Deduct	-275.04	
For >40, Deduct	-441.87	
26 56 13 00-0132 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,965.09	626.35
For >10 To 20, Deduct	-149.13	
For >20 To 40, Deduct	-298.25	
For >40, Deduct	-478.70	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0133	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	6,237.36	639.66
			<i>For >10 To 20, Deduct</i>	-155.93	
			<i>For >20 To 40, Deduct</i>	-311.87	
			<i>For >40, Deduct</i>	-499.79	
26 56	13 00-0134	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	6,661.84	679.65
			<i>For >10 To 20, Deduct</i>	-166.55	
			<i>For >20 To 40, Deduct</i>	-333.09	
			<i>For >40, Deduct</i>	-533.62	
26 56	13 00-0135	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	6,576.56	666.32
			<i>For >10 To 20, Deduct</i>	-164.41	
			<i>For >20 To 40, Deduct</i>	-328.83	
			<i>For >40, Deduct</i>	-526.56	
26 56	13 00-0136	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	7,539.33	706.30
			<i>For >10 To 20, Deduct</i>	-188.48	
			<i>For >20 To 40, Deduct</i>	-376.97	
			<i>For >40, Deduct</i>	-600.76	
26 56	13 00-0137	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	8,385.20	746.28
			<i>For >10 To 20, Deduct</i>	-209.63	
			<i>For >20 To 40, Deduct</i>	-419.26	
			<i>For >40, Deduct</i>	-666.20	
26 56	13 00-0138		Round Tapered, Aluminum Roadway Light Poles With Truss Style Arms <small>(26 56 13 00-0138)</small>		
26 56	13 00-0139		Round Tapered, Aluminum Roadway Light Poles With Single Truss Style Arm <small>(26 56 13 00-0139)</small>		
26 56	13 00-0140	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,623.73	426.45
			<i>For >10 To 20, Deduct</i>	-115.59	
			<i>For >20 To 40, Deduct</i>	-231.19	
			<i>For >40, Deduct</i>	-368.10	
26 56	13 00-0141	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,663.88	426.45
			<i>For >10 To 20, Deduct</i>	-116.60	
			<i>For >20 To 40, Deduct</i>	-233.19	
			<i>For >40, Deduct</i>	-371.11	
26 56	13 00-0142	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,766.49	426.45
			<i>For >10 To 20, Deduct</i>	-119.16	
			<i>For >20 To 40, Deduct</i>	-238.32	
			<i>For >40, Deduct</i>	-378.81	
26 56	13 00-0143	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,920.46	426.45
			<i>For >10 To 20, Deduct</i>	-123.01	
			<i>For >20 To 40, Deduct</i>	-246.02	
			<i>For >40, Deduct</i>	-390.36	
26 56	13 00-0144	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	5,206.42	479.76
			<i>For >10 To 20, Deduct</i>	-130.16	
			<i>For >20 To 40, Deduct</i>	-260.32	
			<i>For >40, Deduct</i>	-414.47	
26 56	13 00-0145	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	5,296.95	479.76
			<i>For >10 To 20, Deduct</i>	-132.42	
			<i>For >20 To 40, Deduct</i>	-264.85	
			<i>For >40, Deduct</i>	-421.26	
26 56	13 00-0146	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	5,393.52	479.76
			<i>For >10 To 20, Deduct</i>	-134.84	
			<i>For >20 To 40, Deduct</i>	-269.68	
			<i>For >40, Deduct</i>	-428.50	
26 56	13 00-0147	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,976.03	479.76
			<i>For >10 To 20, Deduct</i>	-149.40	
			<i>For >20 To 40, Deduct</i>	-298.80	
			<i>For >40, Deduct</i>	-472.19	
26 56	13 00-0148	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	5,673.97	506.40
			<i>For >10 To 20, Deduct</i>	-141.85	
			<i>For >20 To 40, Deduct</i>	-283.70	
			<i>For >40, Deduct</i>	-450.87	
26 56	13 00-0149	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	6,421.42	506.40
			<i>For >10 To 20, Deduct</i>	-160.54	
			<i>For >20 To 40, Deduct</i>	-321.07	
			<i>For >40, Deduct</i>	-506.93	
26 56	13 00-0150	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	6,494.21	506.40
			<i>For >10 To 20, Deduct</i>	-162.36	
			<i>For >20 To 40, Deduct</i>	-324.71	
			<i>For >40, Deduct</i>	-512.39	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0151	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	6,956.38	506.40
			<i>For >10 To 20, Deduct</i>	-173.91	
			<i>For >20 To 40, Deduct</i>	-347.82	
			<i>For >40, Deduct</i>	-547.05	
26 56	13 00-0152	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	7,377.89	506.40
			<i>For >10 To 20, Deduct</i>	-184.45	
			<i>For >20 To 40, Deduct</i>	-368.89	
			<i>For >40, Deduct</i>	-578.66	
26 56 13 00-0153 Round Tapered, Aluminum Roadway Light Poles With Two Truss Style Arms					
			<small>(26 56 13 00-0138)</small>		
26 56	13 00-0154	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,024.13	533.05
			<i>For >10 To 20, Deduct</i>	-150.60	
			<i>For >20 To 40, Deduct</i>	-301.21	
			<i>For >40, Deduct</i>	-478.46	
26 56	13 00-0155	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	6,180.05	559.71
			<i>For >10 To 20, Deduct</i>	-154.50	
			<i>For >20 To 40, Deduct</i>	-309.00	
			<i>For >40, Deduct</i>	-491.49	
26 56	13 00-0156	EA	25' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	6,299.38	586.36
			<i>For >10 To 20, Deduct</i>	-157.48	
			<i>For >20 To 40, Deduct</i>	-314.97	
			<i>For >40, Deduct</i>	-501.77	
26 56	13 00-0157	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,475.28	586.36
			<i>For >10 To 20, Deduct</i>	-161.88	
			<i>For >20 To 40, Deduct</i>	-323.76	
			<i>For >40, Deduct</i>	-514.96	
26 56	13 00-0158	EA	30' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	7,063.42	613.02
			<i>For >10 To 20, Deduct</i>	-176.59	
			<i>For >20 To 40, Deduct</i>	-353.17	
			<i>For >40, Deduct</i>	-560.41	
26 56	13 00-0159	EA	30' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	8,171.99	639.66
			<i>For >10 To 20, Deduct</i>	-204.30	
			<i>For >20 To 40, Deduct</i>	-408.60	
			<i>For >40, Deduct</i>	-644.88	
26 56	13 00-0160	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	7,909.77	613.02
			<i>For >10 To 20, Deduct</i>	-197.74	
			<i>For >20 To 40, Deduct</i>	-395.49	
			<i>For >40, Deduct</i>	-623.88	
26 56	13 00-0161	EA	35' High, 10" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	8,049.06	639.66
			<i>For >10 To 20, Deduct</i>	-201.23	
			<i>For >20 To 40, Deduct</i>	-402.45	
			<i>For >40, Deduct</i>	-635.66	
26 56	13 00-0162	EA	35' High, 10" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	9,906.91	666.32
			<i>For >10 To 20, Deduct</i>	-247.67	
			<i>For >20 To 40, Deduct</i>	-495.35	
			<i>For >40, Deduct</i>	-776.33	
26 56 13 00-0163 Round Tapered, Aluminum Roadway Light Poles With Davit Style Arm					
			<small>(26 56 13 00-0091)</small>		
26 56 13 00-0164 Round Tapered, Aluminum Roadway Light Poles With Single Davit Style Arm					
			<small>(26 56 13 00-0163)</small>		
26 56	13 00-0165	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,824.29	319.84
			<i>For >10 To 20, Deduct</i>	-95.61	
			<i>For >20 To 40, Deduct</i>	-191.21	
			<i>For >40, Deduct</i>	-302.81	
26 56	13 00-0166	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,937.74	319.84
			<i>For >10 To 20, Deduct</i>	-98.44	
			<i>For >20 To 40, Deduct</i>	-196.89	
			<i>For >40, Deduct</i>	-311.32	
26 56	13 00-0167	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	4,051.43	319.84
			<i>For >10 To 20, Deduct</i>	-101.29	
			<i>For >20 To 40, Deduct</i>	-202.57	
			<i>For >40, Deduct</i>	-319.85	
26 56	13 00-0168	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	4,501.41	426.45
			<i>For >10 To 20, Deduct</i>	-112.54	
			<i>For >20 To 40, Deduct</i>	-225.07	
			<i>For >40, Deduct</i>	-358.93	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0169	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base	4,587.88	426.45
			<i>For >10 To 20, Deduct</i>	-114.70	
			<i>For >20 To 40, Deduct</i>	-229.39	
			<i>For >40, Deduct</i>	-365.41	
26 56	13 00-0170	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	4,682.36	426.45
			<i>For >10 To 20, Deduct</i>	-117.06	
			<i>For >20 To 40, Deduct</i>	-234.12	
			<i>For >40, Deduct</i>	-372.50	
26 56	13 00-0171	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base	5,082.01	479.76
			<i>For >10 To 20, Deduct</i>	-127.05	
			<i>For >20 To 40, Deduct</i>	-254.10	
			<i>For >40, Deduct</i>	-405.14	
26 56	13 00-0172	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base	5,199.40	479.76
			<i>For >10 To 20, Deduct</i>	-129.99	
			<i>For >20 To 40, Deduct</i>	-259.97	
			<i>For >40, Deduct</i>	-413.94	
26 56	13 00-0173	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	5,217.01	479.76
			<i>For >10 To 20, Deduct</i>	-130.43	
			<i>For >20 To 40, Deduct</i>	-260.85	
			<i>For >40, Deduct</i>	-415.26	
26 56	13 00-0174	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base	5,553.01	506.40
			<i>For >10 To 20, Deduct</i>	-138.83	
			<i>For >20 To 40, Deduct</i>	-277.65	
			<i>For >40, Deduct</i>	-441.80	
26 56	13 00-0175	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base	5,604.50	506.40
			<i>For >10 To 20, Deduct</i>	-140.11	
			<i>For >20 To 40, Deduct</i>	-280.23	
			<i>For >40, Deduct</i>	-445.66	
26 56	13 00-0176	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	5,725.22	506.40
			<i>For >10 To 20, Deduct</i>	-143.13	
			<i>For >20 To 40, Deduct</i>	-286.26	
			<i>For >40, Deduct</i>	-454.71	
26 56	13 00-0177		Area Light Poles <small>(26 56 13 00-0001)</small>		
			Note: Excludes lighting fixtures.		
26 56	13 00-0178		Steel Area Light Poles <small>(26 56 13 00-0177)</small>		
			Note: Includes powdercoat finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56	13 00-0179		Round Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56	13 00-0180		Round Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0179)</small>		
26 56	13 00-0181	EA	10' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	826.71	186.57
			<i>For Galvanized Finish, Add</i>	13.61	
			<i>For >10 To 20, Deduct</i>	-27.47	
			<i>For >20 To 40, Deduct</i>	-50.41	
			<i>For >40, Deduct</i>	-105.35	
26 56	13 00-0182	EA	12' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	905.15	213.22
			<i>For Galvanized Finish, Add</i>	14.36	
			<i>For >10 To 20, Deduct</i>	-29.81	
			<i>For >20 To 40, Deduct</i>	-54.83	
			<i>For >40, Deduct</i>	-114.45	
26 56	13 00-0183	EA	14' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,012.48	239.87
			<i>For Galvanized Finish, Add</i>	15.98	
			<i>For >10 To 20, Deduct</i>	-33.30	
			<i>For >20 To 40, Deduct</i>	-61.28	
			<i>For >40, Deduct</i>	-127.88	
26 56	13 00-0184	EA	16' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,122.31	266.53
			<i>For Galvanized Finish, Add</i>	17.68	
			<i>For >10 To 20, Deduct</i>	-36.90	
			<i>For >20 To 40, Deduct</i>	-67.90	
			<i>For >40, Deduct</i>	-141.69	
26 56	13 00-0185	EA	18' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,200.75	293.18
			<i>For Galvanized Finish, Add</i>	18.43	
			<i>For >10 To 20, Deduct</i>	-39.23	
			<i>For >20 To 40, Deduct</i>	-72.33	
			<i>For >40, Deduct</i>	-150.79	
26 56	13 00-0186	EA	20' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,272.90	319.84
			<i>For Galvanized Finish, Add</i>	19.00	
			<i>For >10 To 20, Deduct</i>	-41.32	
			<i>For >20 To 40, Deduct</i>	-76.31	
			<i>For >40, Deduct</i>	-158.95	
26 56	13 00-0187	EA	10' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	859.37	186.57
			<i>For Galvanized Finish, Add</i>	14.59	
			<i>For >10 To 20, Deduct</i>	-28.78	
			<i>For >20 To 40, Deduct</i>	-52.69	
			<i>For >40, Deduct</i>	-110.25	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0188	EA	12' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	939.07	213.22
			<i>For Galvanized Finish, Add</i>	15.38	
			<i>For >10 To 20, Deduct</i>	-31.17	
			<i>For >20 To 40, Deduct</i>	-57.21	
			<i>For >40, Deduct</i>	-119.54	
26 56	13 00-0189	EA	14' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,080.33	239.87
			<i>For Galvanized Finish, Add</i>	18.02	
			<i>For >10 To 20, Deduct</i>	-36.02	
			<i>For >20 To 40, Deduct</i>	-66.03	
			<i>For >40, Deduct</i>	-138.06	
26 56	13 00-0190	EA	16' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,166.29	266.53
			<i>For Galvanized Finish, Add</i>	19.00	
			<i>For >10 To 20, Deduct</i>	-38.66	
			<i>For >20 To 40, Deduct</i>	-70.98	
			<i>For >40, Deduct</i>	-148.29	
26 56	13 00-0191	EA	18' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,248.49	293.18
			<i>For Galvanized Finish, Add</i>	19.86	
			<i>For >10 To 20, Deduct</i>	-41.14	
			<i>For >20 To 40, Deduct</i>	-75.67	
			<i>For >40, Deduct</i>	-157.96	
26 56	13 00-0192	EA	20' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,318.13	319.84
			<i>For Galvanized Finish, Add</i>	20.35	
			<i>For >10 To 20, Deduct</i>	-43.13	
			<i>For >20 To 40, Deduct</i>	-79.48	
			<i>For >40, Deduct</i>	-165.74	
26 56	13 00-0193	EA	25' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,577.84	426.45
			<i>For Galvanized Finish, Add</i>	21.75	
			<i>For >10 To 20, Deduct</i>	-50.32	
			<i>For >20 To 40, Deduct</i>	-93.39	
			<i>For >40, Deduct</i>	-194.03	
26 56	13 00-0194	EA	10' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	859.37	186.57
			<i>For Galvanized Finish, Add</i>	14.59	
			<i>For >10 To 20, Deduct</i>	-28.78	
			<i>For >20 To 40, Deduct</i>	-52.69	
			<i>For >40, Deduct</i>	-110.25	
26 56	13 00-0195	EA	12' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	942.84	213.22
			<i>For Galvanized Finish, Add</i>	15.49	
			<i>For >10 To 20, Deduct</i>	-31.32	
			<i>For >20 To 40, Deduct</i>	-57.47	
			<i>For >40, Deduct</i>	-120.10	
26 56	13 00-0196	EA	14' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,100.43	239.87
			<i>For Galvanized Finish, Add</i>	18.62	
			<i>For >10 To 20, Deduct</i>	-36.82	
			<i>For >20 To 40, Deduct</i>	-67.43	
			<i>For >40, Deduct</i>	-141.08	
26 56	13 00-0197	EA	16' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,170.05	266.53
			<i>For Galvanized Finish, Add</i>	19.11	
			<i>For >10 To 20, Deduct</i>	-38.81	
			<i>For >20 To 40, Deduct</i>	-71.24	
			<i>For >40, Deduct</i>	-148.86	
26 56	13 00-0198	EA	18' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,248.49	293.18
			<i>For Galvanized Finish, Add</i>	19.86	
			<i>For >10 To 20, Deduct</i>	-41.14	
			<i>For >20 To 40, Deduct</i>	-75.67	
			<i>For >40, Deduct</i>	-157.96	
26 56	13 00-0199	EA	20' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,318.13	319.84
			<i>For Galvanized Finish, Add</i>	20.35	
			<i>For >10 To 20, Deduct</i>	-43.13	
			<i>For >20 To 40, Deduct</i>	-79.48	
			<i>For >40, Deduct</i>	-165.74	
26 56	13 00-0200	EA	25' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,613.02	426.45
			<i>For Galvanized Finish, Add</i>	22.80	
			<i>For >10 To 20, Deduct</i>	-51.73	
			<i>For >20 To 40, Deduct</i>	-95.85	
			<i>For >40, Deduct</i>	-199.31	
26 56	13 00-0201	EA	30' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,784.97	479.76
			<i>For Galvanized Finish, Add</i>	24.76	
			<i>For >10 To 20, Deduct</i>	-57.01	
			<i>For >20 To 40, Deduct</i>	-105.76	
			<i>For >40, Deduct</i>	-219.77	
26 56	13 00-0202	EA	20' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,398.54	319.84
			<i>For Galvanized Finish, Add</i>	22.77	
			<i>For >10 To 20, Deduct</i>	-46.35	
			<i>For >20 To 40, Deduct</i>	-85.10	
			<i>For >40, Deduct</i>	-177.80	
26 56	13 00-0203	EA	25' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,629.36	426.45
			<i>For Galvanized Finish, Add</i>	23.29	
			<i>For >10 To 20, Deduct</i>	-52.38	
			<i>For >20 To 40, Deduct</i>	-97.00	
			<i>For >40, Deduct</i>	-201.76	
26 56	13 00-0204	EA	30' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,816.38	479.76
			<i>For Galvanized Finish, Add</i>	25.71	
			<i>For >10 To 20, Deduct</i>	-58.26	
			<i>For >20 To 40, Deduct</i>	-107.96	
			<i>For >40, Deduct</i>	-224.48	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0205 Round Tapered, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0206 Round Tapered, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0205)</small>		
26 56 13 00-0207 EA 20' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	1,682.49	319.84
For Galvanized Finish, Add	31.28	
For >10 To 20, Deduct	-57.70	
For >20 To 40, Deduct	-104.98	
For >40, Deduct	-220.39	
26 56 13 00-0208 EA 20' High, 6.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	1,721.44	319.84
For Galvanized Finish, Add	32.45	
For >10 To 20, Deduct	-59.26	
For >20 To 40, Deduct	-107.71	
For >40, Deduct	-226.23	
26 56 13 00-0209 EA 25' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,020.10	426.45
For Galvanized Finish, Add	35.02	
For >10 To 20, Deduct	-68.01	
For >20 To 40, Deduct	-124.35	
For >40, Deduct	-260.37	
26 56 13 00-0210 EA 25' High, 7.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,100.52	426.45
For Galvanized Finish, Add	37.43	
For >10 To 20, Deduct	-71.23	
For >20 To 40, Deduct	-129.98	
For >40, Deduct	-272.43	
26 56 13 00-0211 EA 30' High, 6.60" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,252.36	479.76
For Galvanized Finish, Add	38.79	
For >10 To 20, Deduct	-75.70	
For >20 To 40, Deduct	-138.48	
For >40, Deduct	-289.88	
26 56 13 00-0212 EA 30' High, 8.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,386.79	479.76
For Galvanized Finish, Add	42.82	
For >10 To 20, Deduct	-81.08	
For >20 To 40, Deduct	-147.89	
For >40, Deduct	-310.04	
26 56 13 00-0213 EA 35' High, 7.30" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,467.74	506.40
For Galvanized Finish, Add	43.65	
For >10 To 20, Deduct	-83.52	
For >20 To 40, Deduct	-152.49	
For >40, Deduct	-319.52	
26 56 13 00-0214 EA 35' High, 8.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,550.67	506.40
For Galvanized Finish, Add	46.14	
For >10 To 20, Deduct	-86.83	
For >20 To 40, Deduct	-158.29	
For >40, Deduct	-331.96	
26 56 13 00-0215 EA 35' High, 9.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,749.18	506.40
For Galvanized Finish, Add	52.09	
For >10 To 20, Deduct	-94.78	
For >20 To 40, Deduct	-172.19	
For >40, Deduct	-361.74	
26 56 13 00-0216 EA 39' High, 7.82" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,787.41	533.05
For Galvanized Finish, Add	51.64	
For >10 To 20, Deduct	-95.50	
For >20 To 40, Deduct	-173.80	
For >40, Deduct	-364.81	
26 56 13 00-0217 EA 39' High, 9.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,822.59	533.05
For Galvanized Finish, Add	52.69	
For >10 To 20, Deduct	-96.91	
For >20 To 40, Deduct	-176.26	
For >40, Deduct	-370.08	
26 56 13 00-0218 EA 45' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,819.64	692.97
For Galvanized Finish, Add	73.01	
For >10 To 20, Deduct	-132.00	
For >20 To 40, Deduct	-239.66	
For >40, Deduct	-503.65	
26 56 13 00-0219 EA 50' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,025.32	799.58
For Galvanized Finish, Add	72.78	
For >10 To 20, Deduct	-137.03	
For >20 To 40, Deduct	-249.79	
For >40, Deduct	-523.84	
26 56 13 00-0220 EA 25' High, 7.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,645.80	426.45
For Galvanized Finish, Add	53.79	
For >10 To 20, Deduct	-93.04	
For >20 To 40, Deduct	-168.15	
For >40, Deduct	-354.23	
26 56 13 00-0221 EA 30' High, 8.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,001.18	479.76
For Galvanized Finish, Add	61.25	
For >10 To 20, Deduct	-105.65	
For >20 To 40, Deduct	-190.89	
For >40, Deduct	-402.20	
26 56 13 00-0222 EA 39' High, 9.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,464.62	533.05
For Galvanized Finish, Add	71.96	
For >10 To 20, Deduct	-122.59	
For >20 To 40, Deduct	-221.20	
For >40, Deduct	-466.39	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0223	EA	45' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,211.64	692.97
			<i>For Galvanized Finish, Add</i>	84.77	
			<i>For >10 To 20, Deduct</i>	-147.68	
			<i>For >20 To 40, Deduct</i>	-267.10	
			<i>For >40, Deduct</i>	-562.45	
26 56	13 00-0224	EA	50' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,909.84	799.58
			<i>For Galvanized Finish, Add</i>	99.32	
			<i>For >10 To 20, Deduct</i>	-172.41	
			<i>For >20 To 40, Deduct</i>	-311.71	
			<i>For >40, Deduct</i>	-656.52	
26 56	13 00-0225	EA	50' High, 11.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,421.20	799.58
			<i>For Galvanized Finish, Add</i>	114.66	
			<i>For >10 To 20, Deduct</i>	-192.86	
			<i>For >20 To 40, Deduct</i>	-347.50	
			<i>For >40, Deduct</i>	-733.22	
26 56	13 00-0226	EA	50' High, 13.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	7,129.93	799.58
			<i>For Galvanized Finish, Add</i>	165.92	
			<i>For >10 To 20, Deduct</i>	-261.21	
			<i>For >20 To 40, Deduct</i>	-467.11	
			<i>For >40, Deduct</i>	-989.53	
26 56	13 00-0227	EA	50' High, 13.00" Base OD, 3 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	7,959.17	799.58
			<i>For Galvanized Finish, Add</i>	190.80	
			<i>For >10 To 20, Deduct</i>	-294.38	
			<i>For >20 To 40, Deduct</i>	-525.16	
			<i>For >40, Deduct</i>	-1,113.92	
26 56	13 00-0228		Square Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56	13 00-0229		Square Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0228)</small>		
26 56	13 00-0230	EA	10' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	816.66	186.57
			<i>For Galvanized Finish, Add</i>	13.31	
			<i>For >10 To 20, Deduct</i>	-27.07	
			<i>For >20 To 40, Deduct</i>	-49.70	
			<i>For >40, Deduct</i>	-103.84	
26 56	13 00-0231	EA	12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	869.97	213.22
			<i>For Galvanized Finish, Add</i>	13.31	
			<i>For >10 To 20, Deduct</i>	-28.40	
			<i>For >20 To 40, Deduct</i>	-52.37	
			<i>For >40, Deduct</i>	-109.17	
26 56	13 00-0232	EA	14' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	944.64	239.87
			<i>For Galvanized Finish, Add</i>	13.95	
			<i>For >10 To 20, Deduct</i>	-30.59	
			<i>For >20 To 40, Deduct</i>	-56.53	
			<i>For >40, Deduct</i>	-117.71	
26 56	13 00-0233	EA	15' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,001.43	253.20
			<i>For Galvanized Finish, Add</i>	14.85	
			<i>For >10 To 20, Deduct</i>	-32.46	
			<i>For >20 To 40, Deduct</i>	-59.97	
			<i>For >40, Deduct</i>	-124.89	
26 56	13 00-0234	EA	16' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,028.08	266.53
			<i>For Galvanized Finish, Add</i>	14.85	
			<i>For >10 To 20, Deduct</i>	-33.13	
			<i>For >20 To 40, Deduct</i>	-61.30	
			<i>For >40, Deduct</i>	-127.56	
26 56	13 00-0235	EA	18' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,095.21	293.18
			<i>For Galvanized Finish, Add</i>	15.27	
			<i>For >10 To 20, Deduct</i>	-35.01	
			<i>For >20 To 40, Deduct</i>	-64.94	
			<i>For >40, Deduct</i>	-134.96	
26 56	13 00-0236	EA	20' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,159.82	319.84
			<i>For Galvanized Finish, Add</i>	15.60	
			<i>For >10 To 20, Deduct</i>	-36.80	
			<i>For >20 To 40, Deduct</i>	-68.39	
			<i>For >40, Deduct</i>	-141.99	
26 56	13 00-0237	EA	25' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,448.43	426.45
			<i>For Galvanized Finish, Add</i>	17.87	
			<i>For >10 To 20, Deduct</i>	-45.14	
			<i>For >20 To 40, Deduct</i>	-84.33	
			<i>For >40, Deduct</i>	-174.62	
26 56	13 00-0238	EA	20' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,329.43	319.84
			<i>For Galvanized Finish, Add</i>	20.69	
			<i>For >10 To 20, Deduct</i>	-43.58	
			<i>For >20 To 40, Deduct</i>	-80.27	
			<i>For >40, Deduct</i>	-167.43	
26 56	13 00-0239	EA	25' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,682.13	426.45
			<i>For Galvanized Finish, Add</i>	24.88	
			<i>For >10 To 20, Deduct</i>	-54.49	
			<i>For >20 To 40, Deduct</i>	-100.69	
			<i>For >40, Deduct</i>	-209.68	
26 56	13 00-0240	EA	30' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,925.69	479.76
			<i>For Galvanized Finish, Add</i>	28.99	
			<i>For >10 To 20, Deduct</i>	-62.64	
			<i>For >20 To 40, Deduct</i>	-115.61	
			<i>For >40, Deduct</i>	-240.88	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0241	EA		20' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,282.95	319.84
			<i>For Galvanized Finish, Add</i>	19.30	
			<i>For >10 To 20, Deduct</i>	-41.72	
			<i>For >20 To 40, Deduct</i>	-77.01	
			<i>For >40, Deduct</i>	-160.46	
26 56 13 00-0242	EA		25' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,591.67	426.45
			<i>For Galvanized Finish, Add</i>	22.16	
			<i>For >10 To 20, Deduct</i>	-50.87	
			<i>For >20 To 40, Deduct</i>	-94.36	
			<i>For >40, Deduct</i>	-196.11	
26 56 13 00-0243	EA		30' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,442.51	479.76
			<i>For Galvanized Finish, Add</i>	26.65	
			<i>For >10 To 20, Deduct</i>	-59.52	
			<i>For >20 To 40, Deduct</i>	-110.16	
			<i>For >40, Deduct</i>	-229.19	
26 56 13 00-0244	EA		20' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,442.51	319.84
			<i>For Galvanized Finish, Add</i>	24.09	
			<i>For >10 To 20, Deduct</i>	-48.11	
			<i>For >20 To 40, Deduct</i>	-88.18	
			<i>For >40, Deduct</i>	-184.39	
26 56 13 00-0245	EA		25' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,795.21	426.45
			<i>For Galvanized Finish, Add</i>	28.27	
			<i>For >10 To 20, Deduct</i>	-59.02	
			<i>For >20 To 40, Deduct</i>	-108.61	
			<i>For >40, Deduct</i>	-226.64	
26 56 13 00-0246	EA		30' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,032.48	479.76
			<i>For Galvanized Finish, Add</i>	32.19	
			<i>For >10 To 20, Deduct</i>	-66.91	
			<i>For >20 To 40, Deduct</i>	-123.08	
			<i>For >40, Deduct</i>	-256.90	
26 56 13 00-0247	EA		35' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,241.59	506.40
			<i>For Galvanized Finish, Add</i>	36.86	
			<i>For >10 To 20, Deduct</i>	-74.47	
			<i>For >20 To 40, Deduct</i>	-136.66	
			<i>For >40, Deduct</i>	-285.60	
26 56 13 00-0248	EA		30' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,280.00	479.76
			<i>For Galvanized Finish, Add</i>	39.62	
			<i>For >10 To 20, Deduct</i>	-76.81	
			<i>For >20 To 40, Deduct</i>	-140.41	
			<i>For >40, Deduct</i>	-294.03	
26 56 13 00-0249	EA		35' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,490.36	506.40
			<i>For Galvanized Finish, Add</i>	44.33	
			<i>For >10 To 20, Deduct</i>	-84.42	
			<i>For >20 To 40, Deduct</i>	-154.07	
			<i>For >40, Deduct</i>	-322.91	
26 56 13 00-0250	EA		40' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,632.87	533.05
			<i>For Galvanized Finish, Add</i>	47.00	
			<i>For >10 To 20, Deduct</i>	-89.32	
			<i>For >20 To 40, Deduct</i>	-162.98	
			<i>For >40, Deduct</i>	-341.63	
26 56 13 00-0251			Hinged, Square Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0252			Hinged, Square Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0251)</small>		
26 56 13 00-0253	EA		20' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	2,723.07	319.84
			<i>For Galvanized Finish, Add</i>	62.50	
			<i>For >10 To 20, Deduct</i>	-99.33	
			<i>For >20 To 40, Deduct</i>	-177.82	
			<i>For >40, Deduct</i>	-376.48	
26 56 13 00-0254	EA		25' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	3,077.95	426.45
			<i>For Galvanized Finish, Add</i>	66.75	
			<i>For >10 To 20, Deduct</i>	-110.32	
			<i>For >20 To 40, Deduct</i>	-198.40	
			<i>For >40, Deduct</i>	-419.05	
26 56 13 00-0255	EA		30' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,242.97	479.76
			<i>For Galvanized Finish, Add</i>	98.50	
			<i>For >10 To 20, Deduct</i>	-155.33	
			<i>For >20 To 40, Deduct</i>	-277.82	
			<i>For >40, Deduct</i>	-588.47	
26 56 13 00-0256	EA		20' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	2,773.85	319.84
			<i>For Galvanized Finish, Add</i>	64.03	
			<i>For >10 To 20, Deduct</i>	-101.36	
			<i>For >20 To 40, Deduct</i>	-181.38	
			<i>For >40, Deduct</i>	-384.09	
26 56 13 00-0257	EA		25' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	3,373.29	426.45
			<i>For Galvanized Finish, Add</i>	75.61	
			<i>For >10 To 20, Deduct</i>	-122.14	
			<i>For >20 To 40, Deduct</i>	-219.07	
			<i>For >40, Deduct</i>	-463.35	
26 56 13 00-0258	EA		30' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,682.64	479.76
			<i>For Galvanized Finish, Add</i>	111.69	
			<i>For >10 To 20, Deduct</i>	-172.91	
			<i>For >20 To 40, Deduct</i>	-308.59	
			<i>For >40, Deduct</i>	-654.42	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0259	EA		35' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,349.34 130.10 -198.78 -354.20 -751.76	506.40
26 56 13 00-0260	EA		39' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,253.91 155.63 -234.16 -416.45 -884.78	533.05
26 56 13 00-0261	EA		20' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,642.88 60.10 -96.12 -172.21 -364.45	319.84
26 56 13 00-0262	EA		25' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,949.66 62.90 -105.19 -189.42 -399.80	426.45
26 56 13 00-0263	EA		30' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,017.12 91.73 -146.29 -262.01 -554.59	479.76
26 56 13 00-0264	EA		20' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,735.09 62.86 -99.81 -178.66 -378.28	319.84
26 56 13 00-0265	EA		25' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,253.02 72.00 -117.33 -210.65 -445.31	426.45
26 56 13 00-0266	EA		30' High, 6.44" OD, 7 Gauge, Hinged Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,515.59 106.68 -166.23 -296.90 -629.36	479.76
26 56 13 00-0267	EA		20' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,876.75 67.11 -105.48 -188.58 -399.53	319.84
26 56 13 00-0268	EA		25' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,508.27 79.66 -127.54 -228.52 -483.60	426.45
26 56 13 00-0269	EA		30' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,816.28 115.70 -178.26 -317.95 -674.47	479.76
26 56 13 00-0270	EA		35' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,512.38 134.99 -205.30 -365.61 -776.22	506.40
26 56 13 00-0271	EA		39' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,340.78 158.24 -237.64 -422.53 -897.81	533.05
26 56 13 00-0272			Square Tapered, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0273			Square Tapered, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0272)</small>		
26 56 13 00-0274	EA		20' High, 5.25" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,105.90 43.99 -74.64 -134.62 -283.90	319.84
26 56 13 00-0275	EA		25' High, 6.00" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,577.95 51.75 -90.32 -163.40 -344.05	426.45
26 56 13 00-0276	EA		30' High, 6.41" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,871.77 57.37 -100.48 -181.83 -382.79	479.76



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0277	EA		35' High, 6.81" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	3,172.60	506.40
			<i>For Galvanized Finish, Add</i>	64.79	
			<i>For >10 To 20, Deduct</i>	-111.71	
			<i>For >20 To 40, Deduct</i>	-201.83	
			<i>For >40, Deduct</i>	-425.25	
26 56 13 00-0278	EA		39' High, 7.18" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	3,344.00	533.05
			<i>For Galvanized Finish, Add</i>	68.34	
			<i>For >10 To 20, Deduct</i>	-117.77	
			<i>For >20 To 40, Deduct</i>	-212.76	
			<i>For >40, Deduct</i>	-448.29	
26 56 13 00-0279	EA		20' High, 5.50" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	2,670.03	319.84
			<i>For Galvanized Finish, Add</i>	60.91	
			<i>For >10 To 20, Deduct</i>	-97.21	
			<i>For >20 To 40, Deduct</i>	-174.11	
			<i>For >40, Deduct</i>	-368.52	
26 56 13 00-0280	EA		25' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	3,020.21	426.45
			<i>For Galvanized Finish, Add</i>	65.02	
			<i>For >10 To 20, Deduct</i>	-108.02	
			<i>For >20 To 40, Deduct</i>	-194.36	
			<i>For >40, Deduct</i>	-410.39	
26 56 13 00-0281	EA		30' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	3,233.62	479.76
			<i>For Galvanized Finish, Add</i>	68.22	
			<i>For >10 To 20, Deduct</i>	-114.95	
			<i>For >20 To 40, Deduct</i>	-207.16	
			<i>For >40, Deduct</i>	-437.07	
26 56 13 00-0282	EA		30' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	3,565.32	479.76
			<i>For Galvanized Finish, Add</i>	78.17	
			<i>For >10 To 20, Deduct</i>	-128.22	
			<i>For >20 To 40, Deduct</i>	-230.38	
			<i>For >40, Deduct</i>	-486.82	
26 56 13 00-0283	EA		35' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	3,857.34	506.40
			<i>For Galvanized Finish, Add</i>	85.34	
			<i>For >10 To 20, Deduct</i>	-139.10	
			<i>For >20 To 40, Deduct</i>	-249.76	
			<i>For >40, Deduct</i>	-527.96	
26 56 13 00-0284	EA		35' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	4,268.19	506.40
			<i>For Galvanized Finish, Add</i>	97.66	
			<i>For >10 To 20, Deduct</i>	-155.54	
			<i>For >20 To 40, Deduct</i>	-278.52	
			<i>For >40, Deduct</i>	-589.59	
26 56 13 00-0285	EA		39' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	3,929.49	533.05
			<i>For Galvanized Finish, Add</i>	85.90	
			<i>For >10 To 20, Deduct</i>	-141.19	
			<i>For >20 To 40, Deduct</i>	-253.74	
			<i>For >40, Deduct</i>	-536.12	
26 56 13 00-0286	EA		39' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	4,940.91	533.05
			<i>For Galvanized Finish, Add</i>	116.24	
			<i>For >10 To 20, Deduct</i>	-181.64	
			<i>For >20 To 40, Deduct</i>	-324.54	
			<i>For >40, Deduct</i>	-687.83	
26 56 13 00-0287	EA		45' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	4,675.26	692.97
			<i>For Galvanized Finish, Add</i>	98.68	
			<i>For >10 To 20, Deduct</i>	-166.22	
			<i>For >20 To 40, Deduct</i>	-299.55	
			<i>For >40, Deduct</i>	-631.99	
26 56 13 00-0288	EA		45' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	5,365.03	692.97
			<i>For Galvanized Finish, Add</i>	119.37	
			<i>For >10 To 20, Deduct</i>	-193.81	
			<i>For >20 To 40, Deduct</i>	-347.83	
			<i>For >40, Deduct</i>	-735.46	
26 56 13 00-0289	EA		50' High, 8.81" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	5,613.43	799.58
			<i>For Galvanized Finish, Add</i>	120.43	
			<i>For >10 To 20, Deduct</i>	-200.55	
			<i>For >20 To 40, Deduct</i>	-360.96	
			<i>For >40, Deduct</i>	-762.06	
26 56 13 00-0290			Factory Accessories For Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
	EA		1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Steel Area Light Poles.....	44.55	
	EA		Extra Handhole For Steel Area Light Poles	66.25	
	EA		Vibration Dampener For Steel Area Light Poles	67.39	
26 56 13 00-0294			Aluminum Area Light Poles <small>(26 56 13 00-0177)</small>		
			Note: Includes satin brushed or painted finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0295			Round Straight, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>		
26 56 13 00-0296			Round Straight, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0295)</small>		
	EA		8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	870.29	159.92
			<i>For Bronze Or Satin Anodized Finish, Add</i>	55.05	
			<i>For Black Anodized Finish, Add</i>	110.09	
			<i>For >10 To 20, Deduct</i>	-30.01	
			<i>For >20 To 40, Deduct</i>	-54.52	
			<i>For >40, Deduct</i>	-114.55	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0298	EA		10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	951.82	186.57
			<i>For Bronze Or Satin Anodized Finish, Add</i>	57.87	
			<i>For Black Anodized Finish, Add</i>	115.74	
			<i>For >10 To 20, Deduct</i>	-32.48	
			<i>For >20 To 40, Deduct</i>	-59.16	
			<i>For >40, Deduct</i>	-124.12	
26 56 13 00-0299	EA		12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,040.41	213.22
			<i>For Bronze Or Satin Anodized Finish, Add</i>	61.40	
			<i>For Black Anodized Finish, Add</i>	122.79	
			<i>For >10 To 20, Deduct</i>	-35.22	
			<i>For >20 To 40, Deduct</i>	-64.30	
			<i>For >40, Deduct</i>	-134.74	
26 56 13 00-0300	EA		14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,130.42	239.87
			<i>For Bronze Or Satin Anodized Finish, Add</i>	65.07	
			<i>For Black Anodized Finish, Add</i>	130.13	
			<i>For >10 To 20, Deduct</i>	-38.02	
			<i>For >20 To 40, Deduct</i>	-69.53	
			<i>For >40, Deduct</i>	-145.58	
26 56 13 00-0301	EA		15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,181.05	253.20
			<i>For Bronze Or Satin Anodized Finish, Add</i>	67.47	
			<i>For Black Anodized Finish, Add</i>	134.93	
			<i>For >10 To 20, Deduct</i>	-39.65	
			<i>For >20 To 40, Deduct</i>	-72.55	
			<i>For >40, Deduct</i>	-151.84	
26 56 13 00-0302	EA		16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,230.29	266.53
			<i>For Bronze Or Satin Anodized Finish, Add</i>	69.72	
			<i>For Black Anodized Finish, Add</i>	139.45	
			<i>For >10 To 20, Deduct</i>	-41.22	
			<i>For >20 To 40, Deduct</i>	-75.46	
			<i>For >40, Deduct</i>	-157.89	
26 56 13 00-0303	EA		16' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,314.97	266.53
			<i>For Bronze Or Satin Anodized Finish, Add</i>	78.19	
			<i>For Black Anodized Finish, Add</i>	156.38	
			<i>For >10 To 20, Deduct</i>	-44.60	
			<i>For >20 To 40, Deduct</i>	-81.39	
			<i>For >40, Deduct</i>	-170.59	
26 56 13 00-0304	EA		18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,421.91	293.18
			<i>For Bronze Or Satin Anodized Finish, Add</i>	83.56	
			<i>For Black Anodized Finish, Add</i>	167.11	
			<i>For >10 To 20, Deduct</i>	-48.08	
			<i>For >20 To 40, Deduct</i>	-87.81	
			<i>For >40, Deduct</i>	-183.97	
26 56 13 00-0305	EA		20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,520.38	319.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	88.07	
			<i>For Black Anodized Finish, Add</i>	176.14	
			<i>For >10 To 20, Deduct</i>	-51.22	
			<i>For >20 To 40, Deduct</i>	-93.63	
			<i>For >40, Deduct</i>	-196.07	
26 56 13 00-0306	EA		15' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,492.98	253.20
			<i>For Bronze Or Satin Anodized Finish, Add</i>	98.66	
			<i>For Black Anodized Finish, Add</i>	197.32	
			<i>For >10 To 20, Deduct</i>	-52.12	
			<i>For >20 To 40, Deduct</i>	-94.38	
			<i>For >40, Deduct</i>	-198.63	
26 56 13 00-0307	EA		20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,832.30	319.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	119.26	
			<i>For Black Anodized Finish, Add</i>	238.53	
			<i>For >10 To 20, Deduct</i>	-63.70	
			<i>For >20 To 40, Deduct</i>	-115.47	
			<i>For >40, Deduct</i>	-242.86	
26 56 13 00-0308	EA		20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,990.38	319.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	135.07	
			<i>For Black Anodized Finish, Add</i>	270.14	
			<i>For >10 To 20, Deduct</i>	-70.02	
			<i>For >20 To 40, Deduct</i>	-126.53	
			<i>For >40, Deduct</i>	-266.57	
26 56 13 00-0309	EA		25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	2,351.81	426.45
			<i>For Bronze Or Satin Anodized Finish, Add</i>	149.89	
			<i>For Black Anodized Finish, Add</i>	299.78	
			<i>For >10 To 20, Deduct</i>	-81.28	
			<i>For >20 To 40, Deduct</i>	-147.57	
			<i>For >40, Deduct</i>	-310.13	
26 56 13 00-0310	EA		30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	2,739.29	479.76
			<i>For Bronze Or Satin Anodized Finish, Add</i>	177.98	
			<i>For Black Anodized Finish, Add</i>	355.96	
			<i>For >10 To 20, Deduct</i>	-95.18	
			<i>For >20 To 40, Deduct</i>	-172.56	
			<i>For >40, Deduct</i>	-362.92	
26 56 13 00-0311	EA		20' High, 4" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	1,617.77	319.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	97.81	
			<i>For Black Anodized Finish, Add</i>	195.62	
			<i>For >10 To 20, Deduct</i>	-55.12	
			<i>For >20 To 40, Deduct</i>	-100.45	
			<i>For >40, Deduct</i>	-210.68	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0312	EA	20' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,977.68 133.80 267.60 -69.51 -125.64 -264.67	319.84
26 56	13 00-0313	EA	25' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,329.22 147.63 295.27 -80.38 -145.99 -306.74	426.45
26 56	13 00-0314	EA	25' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,533.88 168.10 336.20 -88.56 -160.31 -337.44	426.45
26 56	13 00-0315	EA	30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,970.76 201.13 402.25 -104.44 -188.76 -397.64	479.76
26 56 13 00-0316 Round Straight, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0295)					
26 56	13 00-0317	EA	8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,014.25 104.16 -35.77 -64.60 -136.15	159.92
26 56	13 00-0318	EA	10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,124.01 112.63 -39.36 -71.22 -149.94	186.57
26 56	13 00-0319	EA	12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,228.13 120.25 -42.73 -77.44 -162.90	213.22
26 56	13 00-0320	EA	14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,305.43 123.85 -45.02 -81.78 -171.83	239.87
26 56	13 00-0321	EA	16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,399.66 129.99 -47.99 -87.32 -183.30	266.53
26 56	13 00-0322	EA	10' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,153.65 117.08 -40.55 -73.29 -154.39	186.57
26 56	13 00-0323	EA	12' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,254.95 124.28 -43.80 -79.32 -166.92	213.22
26 56	13 00-0324	EA	14' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,360.48 132.11 -47.22 -85.64 -180.08	239.87
26 56	13 00-0325	EA	16' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,464.58 139.73 -50.59 -91.86 -193.03	266.53
26 56	13 00-0326	EA	18' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,575.76 148.41 -54.24 -98.58 -207.05	293.18
26 56	13 00-0327	EA	20' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,678.46 155.82 -57.54 -104.70 -219.79	319.84

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0328 EA 12' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,309.99 132.53 -46.00 -83.17 -175.18	213.22
26 56 13 00-0329 EA 14' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,425.40 141.85 -49.82 -90.18 -189.82	239.87
26 56 13 00-0330 EA 16' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,539.39 150.95 -53.58 -97.10 -204.26	266.53
26 56 13 00-0331 EA 18' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,656.21 160.48 -57.45 -104.21 -219.11	293.18
26 56 13 00-0332 EA 16' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,618.42 162.81 -56.74 -102.63 -216.11	266.53
26 56 13 00-0333 EA 20' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,863.35 183.55 -64.94 -117.64 -247.52	319.84
26 56 13 00-0334 EA 12' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,362.21 140.36 -48.09 -86.83 -183.01	213.22
26 56 13 00-0335 EA 14' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,493.15 152.01 -52.53 -94.93 -199.98	239.87
26 56 13 00-0336 EA 16' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,609.96 161.54 -56.40 -102.04 -214.84	266.53
26 56 13 00-0337 EA 18' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,735.25 172.33 -60.61 -109.74 -230.97	293.18
26 56 13 00-0338 EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,856.30 182.50 -64.66 -117.15 -246.46	319.84
26 56 13 00-0339 EA 16' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,712.99 176.99 -60.52 -109.25 -230.30	266.53
26 56 13 00-0340 EA 18' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,850.98 189.69 -65.24 -117.84 -248.33	293.18
26 56 13 00-0341 EA 20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,900.05 189.06 -66.41 -120.21 -253.02	319.84
26 56 13 00-0342 Round Straight, Aluminum Area Light Poles, Direct Burial <small>(26 56 13 00-0295)</small> Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0343 EA 10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	785.93 51.94 103.88 -27.44 -49.68 -104.56	133.26
26 56 13 00-0344 EA 12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	839.40 54.62 109.24 -29.18 -52.89 -111.25	146.59



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0345	EA	14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	929.57 60.97 121.95 -32.39 -58.67 -123.44	159.92
26 56	13 00-0346	EA	15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	962.03 64.22 128.44 -33.68 -60.95 -128.31	159.92
26 56	13 00-0347	EA	16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,002.96 68.31 136.62 -35.32 -63.81 -134.45	159.92
26 56	13 00-0348	EA	18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,153.82 80.73 161.47 -40.96 -73.84 -155.75	173.25
26 56	13 00-0349	EA	20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,232.69 85.96 171.91 -43.71 -78.83 -166.25	186.57
26 56	13 00-0350	EA	20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,451.46 107.83 215.66 -52.46 -94.14 -199.06	186.57
26 56	13 00-0351	EA	25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,785.64 135.92 271.84 -65.03 -116.47 -246.52	213.22
26 56	13 00-0352	EA	30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,028.08 154.83 309.66 -73.93 -132.37 -280.22	239.87
26 56	13 00-0353	EA	30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,286.36 180.66 361.32 -84.26 -150.45 -318.97	239.87
26 56 13 00-0354 Round Tapered, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>					
26 56 13 00-0355 Round Tapered, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0354)</small>					
26 56	13 00-0356	EA	8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	719.27 39.94 79.89 -23.97 -43.95 -91.90	159.92
26 56	13 00-0357	EA	10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	805.03 43.19 86.38 -26.60 -48.89 -102.10	186.57
26 56	13 00-0358	EA	12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	890.80 46.44 92.87 -29.24 -53.83 -112.30	213.22
26 56	13 00-0359	EA	14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	989.28 50.95 101.90 -32.37 -59.65 -124.40	239.87

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0360	EA	16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,086.32 55.33 110.65 -35.46 -65.38 -136.30	266.53
26 56	13 00-0361	EA	10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	841.73 46.86 93.72 -28.07 -51.46 -107.60	186.57
26 56	13 00-0362	EA	12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	948.67 52.22 104.44 -31.55 -57.88 -120.98	213.22
26 56	13 00-0363	EA	14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,051.38 57.16 114.32 -34.86 -64.00 -133.72	239.87
26 56	13 00-0364	EA	18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,246.90 66.05 132.11 -41.08 -75.56 -157.72	293.18
26 56	13 00-0365	EA	20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,335.49 69.58 139.17 -43.82 -80.69 -168.34	319.84
26 56	13 00-0366	EA	12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,000.89 57.44 114.89 -33.64 -61.53 -128.81	213.22
26 56	13 00-0367	EA	14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,112.07 63.23 126.46 -37.29 -68.25 -142.82	239.87
26 56	13 00-0368	EA	16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,233.11 70.01 140.01 -41.33 -75.66 -158.31	266.53
26 56	13 00-0369	EA	18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,328.76 74.24 148.48 -44.36 -81.29 -170.00	293.18
26 56	13 00-0370	EA	20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,444.16 80.45 160.90 -48.17 -88.30 -184.64	319.84
26 56	13 00-0371	EA	16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,371.43 83.84 167.68 -46.86 -85.34 -179.06	266.53
26 56	13 00-0372	EA	18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,505.19 91.88 183.77 -51.41 -93.64 -196.46	293.18
26 56	13 00-0373	EA	20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,581.07 94.14 188.28 -53.65 -97.88 -205.18	319.84



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0374 EA 23' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,813.31	373.14
For Bronze Or Satin Anodized Finish, Add	106.70	
For Black Anodized Finish, Add	213.41	
For >10 To 20, Deduct	-61.34	
For >20 To 40, Deduct	-112.01	
For >40, Deduct	-234.68	
26 56 13 00-0375 EA 25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,054.00	426.45
For Bronze Or Satin Anodized Finish, Add	120.11	
For Black Anodized Finish, Add	240.22	
For >10 To 20, Deduct	-69.37	
For >20 To 40, Deduct	-126.72	
For >40, Deduct	-265.46	
26 56 13 00-0376 EA 18' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,643.51	293.18
For Bronze Or Satin Anodized Finish, Add	105.72	
For Black Anodized Finish, Add	211.43	
For >10 To 20, Deduct	-56.95	
For >20 To 40, Deduct	-103.32	
For >40, Deduct	-217.21	
26 56 13 00-0377 EA 20' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,749.03	319.84
For Bronze Or Satin Anodized Finish, Add	110.94	
For Black Anodized Finish, Add	221.87	
For >10 To 20, Deduct	-60.37	
For >20 To 40, Deduct	-109.64	
For >40, Deduct	-230.37	
26 56 13 00-0378 EA 23' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,945.98	373.14
For Bronze Or Satin Anodized Finish, Add	119.97	
For Black Anodized Finish, Add	239.94	
For >10 To 20, Deduct	-66.65	
For >20 To 40, Deduct	-121.29	
For >40, Deduct	-254.58	
26 56 13 00-0379 EA 25' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,155.62	426.45
For Bronze Or Satin Anodized Finish, Add	130.27	
For Black Anodized Finish, Add	260.55	
For >10 To 20, Deduct	-73.43	
For >20 To 40, Deduct	-133.84	
For >40, Deduct	-280.70	
26 56 13 00-0380 EA 28' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,323.26	453.10
For Bronze Or Satin Anodized Finish, Add	141.71	
For Black Anodized Finish, Add	283.41	
For >10 To 20, Deduct	-79.34	
For >20 To 40, Deduct	-144.50	
For >40, Deduct	-303.18	
26 56 13 00-0381 EA 30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,493.70	479.76
For Bronze Or Satin Anodized Finish, Add	153.42	
For Black Anodized Finish, Add	306.84	
For >10 To 20, Deduct	-85.36	
For >20 To 40, Deduct	-155.37	
For >40, Deduct	-326.08	
26 56 13 00-0382 EA 23' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,077.24	373.14
For Bronze Or Satin Anodized Finish, Add	133.10	
For Black Anodized Finish, Add	266.19	
For >10 To 20, Deduct	-71.90	
For >20 To 40, Deduct	-130.48	
For >40, Deduct	-274.27	
26 56 13 00-0383 EA 25' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,243.13	426.45
For Bronze Or Satin Anodized Finish, Add	139.02	
For Black Anodized Finish, Add	278.05	
For >10 To 20, Deduct	-76.93	
For >20 To 40, Deduct	-139.96	
For >40, Deduct	-293.83	
26 56 13 00-0384 EA 28' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,417.82	453.10
For Bronze Or Satin Anodized Finish, Add	151.16	
For Black Anodized Finish, Add	302.32	
For >10 To 20, Deduct	-83.12	
For >20 To 40, Deduct	-151.12	
For >40, Deduct	-317.36	
26 56 13 00-0385 EA 30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,640.49	479.76
For Bronze Or Satin Anodized Finish, Add	168.10	
For Black Anodized Finish, Add	336.20	
For >10 To 20, Deduct	-91.23	
For >20 To 40, Deduct	-165.64	
For >40, Deduct	-348.10	
26 56 13 00-0386 EA 33' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,730.65	493.07
For Bronze Or Satin Anodized Finish, Add	174.45	
For Black Anodized Finish, Add	348.90	
For >10 To 20, Deduct	-94.43	
For >20 To 40, Deduct	-171.42	
For >40, Deduct	-360.29	
26 56 13 00-0387 EA 35' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,928.09	506.40
For Bronze Or Satin Anodized Finish, Add	191.53	
For Black Anodized Finish, Add	383.06	
For >10 To 20, Deduct	-101.93	
For >20 To 40, Deduct	-184.71	
For >40, Deduct	-388.57	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0388	EA	12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,058.76	213.22
			<i>For Bronze Or Satin Anodized Finish, Add</i>	63.23	
			<i>For Black Anodized Finish, Add</i>	126.46	
			<i>For >10 To 20, Deduct</i>	-35.95	
			<i>For >20 To 40, Deduct</i>	-65.58	
			<i>For >40, Deduct</i>	-137.49	
26 56	13 00-0389	EA	14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,179.82	239.87
			<i>For Bronze Or Satin Anodized Finish, Add</i>	70.01	
			<i>For Black Anodized Finish, Add</i>	140.01	
			<i>For >10 To 20, Deduct</i>	-40.00	
			<i>For >20 To 40, Deduct</i>	-72.99	
			<i>For >40, Deduct</i>	-152.99	
26 56	13 00-0390	EA	16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,306.50	266.53
			<i>For Bronze Or Satin Anodized Finish, Add</i>	77.35	
			<i>For Black Anodized Finish, Add</i>	154.69	
			<i>For >10 To 20, Deduct</i>	-44.26	
			<i>For >20 To 40, Deduct</i>	-80.79	
			<i>For >40, Deduct</i>	-169.32	
26 56	13 00-0391	EA	18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,417.68	293.18
			<i>For Bronze Or Satin Anodized Finish, Add</i>	83.13	
			<i>For Black Anodized Finish, Add</i>	166.26	
			<i>For >10 To 20, Deduct</i>	-47.91	
			<i>For >20 To 40, Deduct</i>	-87.51	
			<i>For >40, Deduct</i>	-183.33	
26 56	13 00-0392	EA	20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,527.44	319.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	88.78	
			<i>For Black Anodized Finish, Add</i>	177.56	
			<i>For >10 To 20, Deduct</i>	-51.50	
			<i>For >20 To 40, Deduct</i>	-94.13	
			<i>For >40, Deduct</i>	-197.13	
26 56	13 00-0393	EA	16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,460.35	266.53
			<i>For Bronze Or Satin Anodized Finish, Add</i>	92.73	
			<i>For Black Anodized Finish, Add</i>	185.46	
			<i>For >10 To 20, Deduct</i>	-50.42	
			<i>For >20 To 40, Deduct</i>	-91.56	
			<i>For >40, Deduct</i>	-192.40	
26 56	13 00-0394	EA	18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,598.34	293.18
			<i>For Bronze Or Satin Anodized Finish, Add</i>	101.20	
			<i>For Black Anodized Finish, Add</i>	202.40	
			<i>For >10 To 20, Deduct</i>	-55.14	
			<i>For >20 To 40, Deduct</i>	-100.16	
			<i>For >40, Deduct</i>	-210.43	
26 56	13 00-0395	EA	20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,692.57	319.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	105.29	
			<i>For Black Anodized Finish, Add</i>	210.58	
			<i>For >10 To 20, Deduct</i>	-58.11	
			<i>For >20 To 40, Deduct</i>	-105.69	
			<i>For >40, Deduct</i>	-221.90	
26 56	13 00-0396	EA	23' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,917.75	373.14
			<i>For Bronze Or Satin Anodized Finish, Add</i>	117.15	
			<i>For Black Anodized Finish, Add</i>	234.29	
			<i>For >10 To 20, Deduct</i>	-65.52	
			<i>For >20 To 40, Deduct</i>	-119.32	
			<i>For >40, Deduct</i>	-250.35	
26 56	13 00-0397	EA	25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,151.39	426.45
			<i>For Bronze Or Satin Anodized Finish, Add</i>	129.85	
			<i>For Black Anodized Finish, Add</i>	259.70	
			<i>For >10 To 20, Deduct</i>	-73.26	
			<i>For >20 To 40, Deduct</i>	-133.54	
			<i>For >40, Deduct</i>	-280.06	
26 56	13 00-0398	EA	23' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,236.73	373.14
			<i>For Bronze Or Satin Anodized Finish, Add</i>	149.05	
			<i>For Black Anodized Finish, Add</i>	298.09	
			<i>For >10 To 20, Deduct</i>	-78.28	
			<i>For >20 To 40, Deduct</i>	-141.65	
			<i>For >40, Deduct</i>	-298.20	
26 56	13 00-0399	EA	25' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,454.84	426.45
			<i>For Bronze Or Satin Anodized Finish, Add</i>	160.20	
			<i>For Black Anodized Finish, Add</i>	320.39	
			<i>For >10 To 20, Deduct</i>	-85.40	
			<i>For >20 To 40, Deduct</i>	-154.78	
			<i>For >40, Deduct</i>	-325.58	
26 56	13 00-0400	EA	28' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,646.47	453.10
			<i>For Bronze Or Satin Anodized Finish, Add</i>	174.03	
			<i>For Black Anodized Finish, Add</i>	348.05	
			<i>For >10 To 20, Deduct</i>	-92.27	
			<i>For >20 To 40, Deduct</i>	-167.13	
			<i>For >40, Deduct</i>	-351.66	
26 56	13 00-0401	EA	30' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,814.09	479.76
			<i>For Bronze Or Satin Anodized Finish, Add</i>	185.46	
			<i>For Black Anodized Finish, Add</i>	370.92	
			<i>For >10 To 20, Deduct</i>	-98.17	
			<i>For >20 To 40, Deduct</i>	-177.80	
			<i>For >40, Deduct</i>	-374.14	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0402	EA	33' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,977.65 199.15 398.30 -104.31 -188.71 -397.34	493.07
26 56	13 00-0403	EA	35' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,118.63 210.58 421.16 -109.55 -198.05 -417.15	506.40
26 56	13 00-0404	EA	37' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,237.03 219.76 439.51 -113.89 -205.80 -433.58	519.73
26 56	13 00-0405	EA	39' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,461.27 239.52 479.03 -122.46 -220.97 -465.89	533.05
26 56	13 00-0406	EA	28' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,256.20 235.00 470.00 -116.66 -209.81 -443.12	453.10
26 56	13 00-0407	EA	30' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,519.80 256.03 512.06 -126.40 -227.20 -480.00	479.76
26 56	13 00-0408	EA	33' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,711.58 272.54 545.09 -133.67 -240.09 -507.43	493.07
26 56	13 00-0409	EA	35' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,853.98 284.12 568.23 -138.97 -249.52 -527.46	506.40
26 56	13 00-0410	EA	37' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,927.20 288.77 577.55 -141.50 -254.11 -537.11	519.73
26 56	13 00-0411	EA	39' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,175.45 310.93 621.87 -151.03 -270.96 -573.01	533.05
26 56	13 00-0412	EA	28' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,062.83 215.66 431.33 -108.92 -196.27 -414.11	453.10
26 56	13 00-0413	EA	30' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,301.03 234.15 468.31 -117.65 -211.88 -447.18	479.76
26 56	13 00-0414	EA	33' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,391.19 240.50 481.01 -120.86 -217.66 -459.37	493.07
26 56	13 00-0415	EA	35' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,643.68 263.09 526.17 -130.56 -234.80 -495.91	506.40

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0416	EA		37' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,760.66	519.73
			<i>For Bronze Or Satin Anodized Finish, Add</i>	272.12	
			<i>For Black Anodized Finish, Add</i>	544.24	
			<i>For >10 To 20, Deduct</i>	-134.83	
			<i>For >20 To 40, Deduct</i>	-242.46	
			<i>For >40, Deduct</i>	-512.13	
26 56 13 00-0417	EA		39' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,010.31	533.05
			<i>For Bronze Or Satin Anodized Finish, Add</i>	294.42	
			<i>For Black Anodized Finish, Add</i>	588.84	
			<i>For >10 To 20, Deduct</i>	-144.42	
			<i>For >20 To 40, Deduct</i>	-259.40	
			<i>For >40, Deduct</i>	-548.24	
26 56 13 00-0418	EA		28' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,946.38	453.10
			<i>For Bronze Or Satin Anodized Finish, Add</i>	304.02	
			<i>For Black Anodized Finish, Add</i>	608.04	
			<i>For >10 To 20, Deduct</i>	-144.26	
			<i>For >20 To 40, Deduct</i>	-258.12	
			<i>For >40, Deduct</i>	-546.65	
26 56 13 00-0419	EA		30' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,171.87	479.76
			<i>For Bronze Or Satin Anodized Finish, Add</i>	321.24	
			<i>For Black Anodized Finish, Add</i>	642.47	
			<i>For >10 To 20, Deduct</i>	-152.48	
			<i>For >20 To 40, Deduct</i>	-272.84	
			<i>For >40, Deduct</i>	-577.81	
26 56 13 00-0420	EA		33' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,366.48	493.07
			<i>For Bronze Or Satin Anodized Finish, Add</i>	338.03	
			<i>For Black Anodized Finish, Add</i>	676.07	
			<i>For >10 To 20, Deduct</i>	-159.87	
			<i>For >20 To 40, Deduct</i>	-285.93	
			<i>For >40, Deduct</i>	-605.66	
26 56 13 00-0421	EA		35' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,675.42	506.40
			<i>For Bronze Or Satin Anodized Finish, Add</i>	366.26	
			<i>For Black Anodized Finish, Add</i>	732.52	
			<i>For >10 To 20, Deduct</i>	-171.82	
			<i>For >20 To 40, Deduct</i>	-307.02	
			<i>For >40, Deduct</i>	-650.67	
26 56 13 00-0422	EA		37' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,733.12	519.73
			<i>For Bronze Or Satin Anodized Finish, Add</i>	369.37	
			<i>For Black Anodized Finish, Add</i>	738.73	
			<i>For >10 To 20, Deduct</i>	-173.73	
			<i>For >20 To 40, Deduct</i>	-310.53	
			<i>For >40, Deduct</i>	-658.00	
26 56 13 00-0423	EA		39' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	5,040.64	533.05
			<i>For Bronze Or Satin Anodized Finish, Add</i>	397.45	
			<i>For Black Anodized Finish, Add</i>	794.91	
			<i>For >10 To 20, Deduct</i>	-185.63	
			<i>For >20 To 40, Deduct</i>	-331.52	
			<i>For >40, Deduct</i>	-702.79	
26 56 13 00-0424	EA		48' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	6,227.18	799.58
			<i>For Bronze Or Satin Anodized Finish, Add</i>	462.80	
			<i>For Black Anodized Finish, Add</i>	925.60	
			<i>For >10 To 20, Deduct</i>	-225.10	
			<i>For >20 To 40, Deduct</i>	-403.92	
			<i>For >40, Deduct</i>	-854.12	
26 56 13 00-0425	EA		50' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	6,402.20	799.58
			<i>For Bronze Or Satin Anodized Finish, Add</i>	480.30	
			<i>For Black Anodized Finish, Add</i>	960.61	
			<i>For >10 To 20, Deduct</i>	-232.10	
			<i>For >20 To 40, Deduct</i>	-416.17	
			<i>For >40, Deduct</i>	-880.37	
26 56 13 00-0426			Round Tapered, Aluminum Area Light Poles, Hinged Anchor Base <small>(26 56 13 00-0354)</small>		
26 56 13 00-0427	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,022.72	159.92
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	105.43	
			<i>For >10 To 20, Deduct</i>	-36.11	
			<i>For >20 To 40, Deduct</i>	-65.19	
			<i>For >40, Deduct</i>	-137.42	
26 56 13 00-0428	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,105.66	186.57
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	109.88	
			<i>For >10 To 20, Deduct</i>	-38.63	
			<i>For >20 To 40, Deduct</i>	-69.93	
			<i>For >40, Deduct</i>	-147.19	
26 56 13 00-0429	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,195.02	213.22
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	114.54	
			<i>For >10 To 20, Deduct</i>	-41.20	
			<i>For >20 To 40, Deduct</i>	-74.77	
			<i>For >40, Deduct</i>	-157.18	
26 56 13 00-0430	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,277.21	239.87
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	119.62	
			<i>For >10 To 20, Deduct</i>	-43.89	
			<i>For >20 To 40, Deduct</i>	-79.81	
			<i>For >40, Deduct</i>	-167.59	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0431	EA	16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,362.96 124.49 -46.52 -84.75 -177.79	266.53
26 56	13 00-0432	EA	10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,122.60 112.42 -39.31 -71.12 -149.73	186.57
26 56	13 00-0433	EA	12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,209.78 117.50 -41.99 -76.16 -160.14	213.22
26 56	13 00-0434	EA	14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,299.79 123.00 -44.80 -81.39 -170.98	239.87
26 56	13 00-0435	EA	16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,388.36 128.30 -47.54 -86.52 -181.60	266.53
26 56	13 00-0436	EA	18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,495.31 136.34 -51.02 -92.94 -194.98	293.18
26 56	13 00-0437	EA	20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,589.54 142.48 -53.99 -98.47 -206.45	319.84
26 56	13 00-0438	EA	12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,264.83 125.76 -44.20 -80.01 -168.40	213.22
26 56	13 00-0439	EA	14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,361.89 132.32 -47.28 -85.74 -180.30	239.87
26 56	13 00-0440	EA	16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,475.87 141.42 -51.04 -92.65 -194.73	266.53
26 56	13 00-0441	EA	18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,575.76 148.41 -54.24 -98.58 -207.05	293.18
26 56	13 00-0442	EA	20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,693.98 158.15 -58.16 -105.79 -222.11	319.84
26 56	13 00-0443	EA	16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,556.32 153.49 -54.26 -98.28 -206.80	266.53
26 56	13 00-0444	EA	18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,684.44 164.71 -58.58 -106.18 -223.35	293.18
26 56	13 00-0445	EA	20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,781.49 171.27 -61.66 -111.91 -235.24	319.84
26 56	13 00-0446	EA	12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,308.58 132.32 -45.95 -83.07 -174.96	213.22
26 56	13 00-0447	EA	14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,428.23 142.27 -49.93 -90.38 -190.25	239.87

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0448	EA		16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,556.32 153.49 -54.26 -98.28 -206.80	266.53
26 56 13 00-0449	EA		18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,667.50 162.17 -57.90 -105.00 -220.81	293.18
26 56 13 00-0450	EA		20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,788.55 172.33 -61.95 -112.41 -236.30	319.84
26 56 13 00-0451	EA		16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,648.06 167.25 -57.93 -104.70 -220.56	266.53
26 56 13 00-0452	EA		18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,787.47 180.17 -62.70 -113.40 -238.80	293.18
26 56 13 00-0453	EA		20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,891.58 187.79 -66.07 -119.62 -251.75	319.84
26 56 13 00-0454			Round Tapered, Aluminum Area Light Poles, Direct Burial <small>(26 56 13 00-0354)</small>		
			Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0455	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	684.31 41.78 83.56 -23.37 -42.57 -89.32	133.26
26 56 13 00-0456	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	723.83 45.73 91.46 -24.96 -45.34 -95.25	133.26
26 56 13 00-0457	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	782.94 48.98 97.95 -26.92 -48.94 -102.78	146.59
26 56 13 00-0458	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	832.18 51.23 102.47 -28.49 -51.86 -108.84	159.92
26 56 13 00-0459	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	882.99 56.32 112.63 -30.52 -55.41 -116.46	159.92
26 56 13 00-0460	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	821.05 52.79 105.57 -28.44 -51.61 -108.50	146.59
26 56 13 00-0461	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	887.23 56.74 113.48 -30.69 -55.71 -117.09	159.92
26 56 13 00-0462	EA		16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	915.46 59.56 119.12 -31.82 -57.69 -121.33	159.92



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0463 EA 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	987.27	173.25
For Bronze Or Satin Anodized Finish, Add	64.08	
For Black Anodized Finish, Add	128.16	
For >10 To 20, Deduct	-34.29	
For >20 To 40, Deduct	-62.18	
For >40, Deduct	-130.77	
26 56 13 00-0464 EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,053.44	186.57
For Bronze Or Satin Anodized Finish, Add	68.03	
For Black Anodized Finish, Add	136.06	
For >10 To 20, Deduct	-36.54	
For >20 To 40, Deduct	-66.28	
For >40, Deduct	-139.36	
26 56 13 00-0465 EA 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	997.32	159.92
For Bronze Or Satin Anodized Finish, Add	67.75	
For Black Anodized Finish, Add	135.50	
For >10 To 20, Deduct	-35.10	
For >20 To 40, Deduct	-63.42	
For >40, Deduct	-133.61	
26 56 13 00-0466 EA 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,077.60	173.25
For Bronze Or Satin Anodized Finish, Add	73.11	
For Black Anodized Finish, Add	146.22	
For >10 To 20, Deduct	-37.91	
For >20 To 40, Deduct	-68.50	
For >40, Deduct	-144.32	
26 56 13 00-0467 EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,150.83	186.57
For Bronze Or Satin Anodized Finish, Add	77.77	
For Black Anodized Finish, Add	155.54	
For >10 To 20, Deduct	-40.44	
For >20 To 40, Deduct	-73.10	
For >40, Deduct	-153.97	
26 56 13 00-0468 EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,193.34	173.25
For Bronze Or Satin Anodized Finish, Add	84.69	
For Black Anodized Finish, Add	169.37	
For >10 To 20, Deduct	-42.54	
For >20 To 40, Deduct	-76.60	
For >40, Deduct	-161.68	
26 56 13 00-0469 EA 25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,537.23	213.22
For Bronze Or Satin Anodized Finish, Add	111.08	
For Black Anodized Finish, Add	222.16	
For >10 To 20, Deduct	-55.09	
For >20 To 40, Deduct	-99.08	
For >40, Deduct	-209.26	
26 56 13 00-0470 EA 25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,696.72	213.22
For Bronze Or Satin Anodized Finish, Add	127.03	
For Black Anodized Finish, Add	254.05	
For >10 To 20, Deduct	-61.47	
For >20 To 40, Deduct	-110.24	
For >40, Deduct	-233.19	
26 56 13 00-0471 EA 30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,886.94	239.87
For Bronze Or Satin Anodized Finish, Add	140.72	
For Black Anodized Finish, Add	281.44	
For >10 To 20, Deduct	-68.28	
For >20 To 40, Deduct	-122.49	
For >40, Deduct	-259.05	
26 56 13 00-0472 EA 30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	2,060.54	239.87
For Bronze Or Satin Anodized Finish, Add	158.08	
For Black Anodized Finish, Add	316.16	
For >10 To 20, Deduct	-75.23	
For >20 To 40, Deduct	-134.64	
For >40, Deduct	-285.09	
26 56 13 00-0473 Square Straight, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>		
26 56 13 00-0474 Square Straight, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0473)</small>		
26 56 13 00-0475 EA 8' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	902.75	159.92
For Bronze Or Satin Anodized Finish, Add	58.29	
For Black Anodized Finish, Add	116.58	
For >10 To 20, Deduct	-31.31	
For >20 To 40, Deduct	-56.80	
For >40, Deduct	-119.42	
26 56 13 00-0476 EA 10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	985.69	186.57
For Bronze Or Satin Anodized Finish, Add	61.26	
For Black Anodized Finish, Add	122.51	
For >10 To 20, Deduct	-33.83	
For >20 To 40, Deduct	-61.54	
For >40, Deduct	-129.20	
26 56 13 00-0477 EA 12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,079.93	213.22
For Bronze Or Satin Anodized Finish, Add	65.35	
For Black Anodized Finish, Add	130.70	
For >10 To 20, Deduct	-36.80	
For >20 To 40, Deduct	-67.07	
For >40, Deduct	-140.67	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0478	EA		14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,172.76	239.87
			<i>For Bronze Or Satin Anodized Finish, Add</i>	69.30	
			<i>For Black Anodized Finish, Add</i>	138.60	
			<i>For >10 To 20, Deduct</i>	-39.71	
			<i>For >20 To 40, Deduct</i>	-72.50	
			<i>For >40, Deduct</i>	-151.93	
26 56 13 00-0479	EA		15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,224.81	253.20
			<i>For Bronze Or Satin Anodized Finish, Add</i>	71.84	
			<i>For Black Anodized Finish, Add</i>	143.68	
			<i>For >10 To 20, Deduct</i>	-41.40	
			<i>For >20 To 40, Deduct</i>	-75.61	
			<i>For >40, Deduct</i>	-158.40	
26 56 13 00-0480	EA		16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,276.86	266.53
			<i>For Bronze Or Satin Anodized Finish, Add</i>	74.38	
			<i>For Black Anodized Finish, Add</i>	148.76	
			<i>For >10 To 20, Deduct</i>	-43.08	
			<i>For >20 To 40, Deduct</i>	-78.72	
			<i>For >40, Deduct</i>	-164.88	
26 56 13 00-0481	EA		18' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,378.16	293.18
			<i>For Bronze Or Satin Anodized Finish, Add</i>	79.18	
			<i>For Black Anodized Finish, Add</i>	158.36	
			<i>For >10 To 20, Deduct</i>	-46.33	
			<i>For >20 To 40, Deduct</i>	-84.74	
			<i>For >40, Deduct</i>	-177.41	
26 56 13 00-0482	EA		20' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,492.15	319.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	85.25	
			<i>For Black Anodized Finish, Add</i>	170.50	
			<i>For >10 To 20, Deduct</i>	-50.09	
			<i>For >20 To 40, Deduct</i>	-91.66	
			<i>For >40, Deduct</i>	-191.84	
26 56 13 00-0483	EA		16' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,374.25	266.53
			<i>For Bronze Or Satin Anodized Finish, Add</i>	84.12	
			<i>For Black Anodized Finish, Add</i>	168.24	
			<i>For >10 To 20, Deduct</i>	-46.97	
			<i>For >20 To 40, Deduct</i>	-85.54	
			<i>For >40, Deduct</i>	-179.49	
26 56 13 00-0484	EA		18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,478.37	293.18
			<i>For Bronze Or Satin Anodized Finish, Add</i>	89.20	
			<i>For Black Anodized Finish, Add</i>	178.40	
			<i>For >10 To 20, Deduct</i>	-50.34	
			<i>For >20 To 40, Deduct</i>	-91.76	
			<i>For >40, Deduct</i>	-192.44	
26 56 13 00-0485	EA		20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,600.83	319.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	96.12	
			<i>For Black Anodized Finish, Add</i>	192.23	
			<i>For >10 To 20, Deduct</i>	-54.44	
			<i>For >20 To 40, Deduct</i>	-99.26	
			<i>For >40, Deduct</i>	-208.14	
26 56 13 00-0486	EA		15' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,648.23	253.20
			<i>For Bronze Or Satin Anodized Finish, Add</i>	114.18	
			<i>For Black Anodized Finish, Add</i>	228.37	
			<i>For >10 To 20, Deduct</i>	-58.33	
			<i>For >20 To 40, Deduct</i>	-105.25	
			<i>For >40, Deduct</i>	-221.91	
26 56 13 00-0487	EA		20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	2,005.90	319.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	136.62	
			<i>For Black Anodized Finish, Add</i>	273.25	
			<i>For >10 To 20, Deduct</i>	-70.64	
			<i>For >20 To 40, Deduct</i>	-127.62	
			<i>For >40, Deduct</i>	-268.90	
26 56 13 00-0488	EA		25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	2,395.56	426.45
			<i>For Bronze Or Satin Anodized Finish, Add</i>	154.27	
			<i>For Black Anodized Finish, Add</i>	308.53	
			<i>For >10 To 20, Deduct</i>	-83.03	
			<i>For >20 To 40, Deduct</i>	-150.63	
			<i>For >40, Deduct</i>	-316.69	
26 56 13 00-0489	EA		20' High, 4" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	1,688.34	319.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	104.87	
			<i>For Black Anodized Finish, Add</i>	209.74	
			<i>For >10 To 20, Deduct</i>	-57.94	
			<i>For >20 To 40, Deduct</i>	-105.39	
			<i>For >40, Deduct</i>	-221.27	
26 56 13 00-0490	EA		20' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	2,176.69	319.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	153.70	
			<i>For Black Anodized Finish, Add</i>	307.41	
			<i>For >10 To 20, Deduct</i>	-77.47	
			<i>For >20 To 40, Deduct</i>	-139.58	
			<i>For >40, Deduct</i>	-294.52	
26 56 13 00-0491	EA		25' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	2,550.82	426.45
			<i>For Bronze Or Satin Anodized Finish, Add</i>	169.79	
			<i>For Black Anodized Finish, Add</i>	339.59	
			<i>For >10 To 20, Deduct</i>	-89.24	
			<i>For >20 To 40, Deduct</i>	-161.50	
			<i>For >40, Deduct</i>	-339.98	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0492	EA		20' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,444.85 180.52 361.04 -88.20 -158.35 -334.74	319.84
26 56 13 00-0493	EA		25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,900.85 204.80 409.59 -103.24 -186.00 -392.48	426.45
26 56 13 00-0494	EA		30' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,371.60 241.21 482.42 -120.47 -216.82 -457.77	479.76
26 56 13 00-0495 Square Straight, Aluminum Area Light Poles, Direct Burial <small>(26 56 13 00-0473)</small>					
Note: Includes rubberized undercoating on embedded portion.					
26 56 13 00-0496	EA		10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	822.63 55.61 111.22 -28.91 -52.25 -110.07	133.26
26 56 13 00-0497	EA		12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	921.26 62.81 125.62 -32.45 -58.62 -123.53	146.59
26 56 13 00-0498	EA		14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	977.56 65.77 131.54 -34.30 -62.03 -130.64	159.92
26 56 13 00-0499	EA		15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,012.84 69.30 138.60 -35.72 -64.50 -135.93	159.92
26 56 13 00-0500	EA		16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,056.60 73.68 147.35 -37.47 -67.57 -142.50	159.92
26 56 13 00-0501	EA		18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,232.86 88.64 177.27 -44.12 -79.37 -167.60	173.25
26 56 13 00-0502	EA		20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,320.20 94.71 189.41 -47.21 -84.95 -179.37	186.57
26 56 13 00-0503	EA		20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,541.79 116.87 233.73 -56.07 -100.46 -212.61	186.57
26 56 13 00-0504	EA		25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,772.94 134.65 269.30 -64.52 -115.58 -244.62	213.22
26 56 13 00-0505	EA		25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,268.34 184.19 368.38 -84.34 -150.25 -318.93	213.22
26 56 13 00-0506 Factory Accessories For Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>					
26 56 13 00-0507	EA		1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Aluminum Area Light Poles.....	44.55	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 56 13 00-0508	EA	Extra Handhole For Aluminum Area Light Poles.....	52.61	
26 56 13 00-0509	EA	Vibration Dampener For Aluminum Area Light Poles.....	67.39	
26 56 13 00-0510		Fiberglass Area Light Poles <small>(26 56 13 00-0177)</small>		
		Note: Includes UV resistant textured weave finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions and tenon top.		
26 56 13 00-0511		Round Tapered, Fiberglass Area Light Poles <small>(26 56 13 00-0510)</small>		
26 56 13 00-0512		Round Tapered, Fiberglass Area Light Poles, Anchor Base <small>(26 56 13 00-0511)</small>		
26 56 13 00-0513	EA	10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,111.92	186.57
		For >10 To 20, Deduct	-38.88	
		For >20 To 40, Deduct	-70.37	
		For >40, Deduct	-148.13	
26 56 13 00-0514	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,209.20	213.22
		For >10 To 20, Deduct	-41.97	
		For >20 To 40, Deduct	-76.12	
		For >40, Deduct	-160.06	
26 56 13 00-0515	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,307.74	239.87
		For >10 To 20, Deduct	-45.11	
		For >20 To 40, Deduct	-81.95	
		For >40, Deduct	-172.17	
26 56 13 00-0516	EA	16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,405.01	266.53
		For >10 To 20, Deduct	-48.20	
		For >20 To 40, Deduct	-87.69	
		For >40, Deduct	-184.10	
26 56 13 00-0517	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,524.91	293.18
		For >10 To 20, Deduct	-52.20	
		For >20 To 40, Deduct	-95.02	
		For >40, Deduct	-199.42	
26 56 13 00-0518	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,624.69	319.84
		For >10 To 20, Deduct	-55.39	
		For >20 To 40, Deduct	-100.94	
		For >40, Deduct	-211.72	
26 56 13 00-0519	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,776.54	373.14
		For >10 To 20, Deduct	-59.87	
		For >20 To 40, Deduct	-109.43	
		For >40, Deduct	-229.17	
26 56 13 00-0520	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,927.13	426.45
		For >10 To 20, Deduct	-64.29	
		For >20 To 40, Deduct	-117.84	
		For >40, Deduct	-246.43	
26 56 13 00-0521	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,028.90	426.45
		For >10 To 20, Deduct	-68.36	
		For >20 To 40, Deduct	-124.97	
		For >40, Deduct	-261.69	
26 56 13 00-0522	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,171.41	453.10
		For >10 To 20, Deduct	-73.26	
		For >20 To 40, Deduct	-133.87	
		For >40, Deduct	-280.40	
26 56 13 00-0523	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,313.92	479.76
		For >10 To 20, Deduct	-78.16	
		For >20 To 40, Deduct	-142.78	
		For >40, Deduct	-299.11	
26 56 13 00-0524	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,227.51	186.57
		For >10 To 20, Deduct	-43.50	
		For >20 To 40, Deduct	-78.46	
		For >40, Deduct	-165.47	
26 56 13 00-0525	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,302.17	213.22
		For >10 To 20, Deduct	-45.69	
		For >20 To 40, Deduct	-82.62	
		For >40, Deduct	-174.00	
26 56 13 00-0526	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,378.10	239.87
		For >10 To 20, Deduct	-47.93	
		For >20 To 40, Deduct	-86.87	
		For >40, Deduct	-182.73	
26 56 13 00-0527	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,456.52	266.53
		For >10 To 20, Deduct	-50.27	
		For >20 To 40, Deduct	-91.30	
		For >40, Deduct	-191.83	
26 56 13 00-0528	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,541.24	293.18
		For >10 To 20, Deduct	-52.85	
		For >20 To 40, Deduct	-96.16	
		For >40, Deduct	-201.87	
26 56 13 00-0529	EA	20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,624.69	319.84
		For >10 To 20, Deduct	-55.39	
		For >20 To 40, Deduct	-100.94	
		For >40, Deduct	-211.72	
26 56 13 00-0530	EA	22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,761.47	373.14
		For >10 To 20, Deduct	-59.26	
		For >20 To 40, Deduct	-108.38	
		For >40, Deduct	-226.91	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0531	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,927.13 -64.29 -117.84 -246.43	426.45
26 56	13 00-0532	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,969.85 -66.00 -120.83 -252.83	426.45
26 56	13 00-0533	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,067.13 -69.09 -126.58 -264.76	453.10
26 56	13 00-0534	EA	30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,164.41 -72.18 -132.32 -276.69	479.76
26 56	13 00-0535	EA	10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,397.12 -50.29 -90.34 -190.91	186.57
26 56	13 00-0536	EA	12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,489.38 -53.18 -95.73 -202.08	213.22
26 56	13 00-0537	EA	14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,581.64 -56.07 -101.12 -213.26	239.87
26 56	13 00-0538	EA	16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,675.14 -59.01 -106.60 -224.62	266.53
26 56	13 00-0539	EA	18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,773.68 -62.15 -112.43 -236.73	293.18
26 56	13 00-0540	EA	20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,879.75 -65.60 -118.79 -249.98	319.84
26 56	13 00-0541	EA	22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,050.44 -70.82 -128.61 -270.25	373.14
26 56	13 00-0542	EA	24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,222.39 -76.10 -138.51 -290.71	426.45
26 56	13 00-0543	EA	26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,287.72 -78.72 -143.08 -300.51	426.45
26 56	13 00-0544	EA	28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,444.06 -84.17 -152.96 -321.30	453.10
26 56	13 00-0545	EA	30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,571.49 -88.47 -160.81 -337.75	479.76
26 56	13 00-0546	EA	32' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,672.27 -92.10 -167.34 -351.53	493.07
26 56	13 00-0547	EA	34' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,773.05 -95.73 -173.86 -365.32	506.40
26 56 13 00-0548 Round Tapered, Fiberglass Area Light Poles, Direct Burial <small>(26 56 13 00-0511)</small>					
26 56	13 00-0549	EA	10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	688.69 -23.55 -42.88 -89.98	133.26
26 56	13 00-0550	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	739.21 -25.17 -45.88 -96.22	146.59
26 56	13 00-0551	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	788.48 -26.74 -48.80 -102.28	159.92

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0552	EA	16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	809.84	159.92
			<i>For >10 To 20, Deduct</i>	-27.60	
			<i>For >20 To 40, Deduct</i>	-50.29	
			<i>For >40, Deduct</i>	-105.48	
26 56	13 00-0553	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	871.67	173.25
			<i>For >10 To 20, Deduct</i>	-29.67	
			<i>For >20 To 40, Deduct</i>	-54.09	
			<i>For >40, Deduct</i>	-113.43	
26 56	13 00-0554	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	923.45	186.57
			<i>For >10 To 20, Deduct</i>	-31.34	
			<i>For >20 To 40, Deduct</i>	-57.18	
			<i>For >40, Deduct</i>	-119.86	
26 56	13 00-0555	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	979.00	199.90
			<i>For >10 To 20, Deduct</i>	-33.16	
			<i>For >20 To 40, Deduct</i>	-60.53	
			<i>For >40, Deduct</i>	-126.86	
26 56	13 00-0556	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,040.84	213.22
			<i>For >10 To 20, Deduct</i>	-35.24	
			<i>For >20 To 40, Deduct</i>	-64.33	
			<i>For >40, Deduct</i>	-134.80	
26 56	13 00-0557	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,161.46	213.22
			<i>For >10 To 20, Deduct</i>	-40.06	
			<i>For >20 To 40, Deduct</i>	-72.77	
			<i>For >40, Deduct</i>	-152.90	
26 56	13 00-0558	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,308.72	226.55
			<i>For >10 To 20, Deduct</i>	-45.55	
			<i>For >20 To 40, Deduct</i>	-82.55	
			<i>For >40, Deduct</i>	-173.65	
26 56	13 00-0559	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,456.00	239.87
			<i>For >10 To 20, Deduct</i>	-51.04	
			<i>For >20 To 40, Deduct</i>	-92.32	
			<i>For >40, Deduct</i>	-194.41	
26 56	13 00-0560	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	804.28	133.26
			<i>For >10 To 20, Deduct</i>	-28.17	
			<i>For >20 To 40, Deduct</i>	-50.97	
			<i>For >40, Deduct</i>	-107.32	
26 56	13 00-0561	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	861.08	146.59
			<i>For >10 To 20, Deduct</i>	-30.05	
			<i>For >20 To 40, Deduct</i>	-54.41	
			<i>For >40, Deduct</i>	-114.50	
26 56	13 00-0562	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	917.90	159.92
			<i>For >10 To 20, Deduct</i>	-31.92	
			<i>For >20 To 40, Deduct</i>	-57.86	
			<i>For >40, Deduct</i>	-121.69	
26 56	13 00-0563	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	949.31	159.92
			<i>For >10 To 20, Deduct</i>	-33.17	
			<i>For >20 To 40, Deduct</i>	-60.05	
			<i>For >40, Deduct</i>	-126.40	
26 56	13 00-0564	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,006.11	173.25
			<i>For >10 To 20, Deduct</i>	-35.05	
			<i>For >20 To 40, Deduct</i>	-63.50	
			<i>For >40, Deduct</i>	-133.59	
26 56	13 00-0565	EA	20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,062.91	186.57
			<i>For >10 To 20, Deduct</i>	-36.92	
			<i>For >20 To 40, Deduct</i>	-66.94	
			<i>For >40, Deduct</i>	-140.78	
26 56	13 00-0566	EA	22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,119.72	199.90
			<i>For >10 To 20, Deduct</i>	-38.79	
			<i>For >20 To 40, Deduct</i>	-70.38	
			<i>For >40, Deduct</i>	-147.97	
26 56	13 00-0567	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,205.43	213.22
			<i>For >10 To 20, Deduct</i>	-41.82	
			<i>For >20 To 40, Deduct</i>	-75.85	
			<i>For >40, Deduct</i>	-159.49	
26 56	13 00-0568	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,322.28	213.22
			<i>For >10 To 20, Deduct</i>	-46.49	
			<i>For >20 To 40, Deduct</i>	-84.03	
			<i>For >40, Deduct</i>	-177.02	
26 56	13 00-0569	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,467.03	226.55
			<i>For >10 To 20, Deduct</i>	-51.88	
			<i>For >20 To 40, Deduct</i>	-93.63	
			<i>For >40, Deduct</i>	-197.40	
26 56	13 00-0570	EA	30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,610.54	239.87
			<i>For >10 To 20, Deduct</i>	-57.23	
			<i>For >20 To 40, Deduct</i>	-103.14	
			<i>For >40, Deduct</i>	-217.59	
26 56	13 00-0571	EA	10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	906.05	133.26
			<i>For >10 To 20, Deduct</i>	-32.24	
			<i>For >20 To 40, Deduct</i>	-58.09	
			<i>For >40, Deduct</i>	-122.58	
26 56	13 00-0572	EA	12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	955.31	146.59
			<i>For >10 To 20, Deduct</i>	-33.81	
			<i>For >20 To 40, Deduct</i>	-61.01	
			<i>For >40, Deduct</i>	-128.64	



Electrical	26	
Lighting	26 50	26
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0573	EA		14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,003.33 -35.34 -63.84 -134.51	159.92
26 56 13 00-0574	EA		16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,024.69 -36.19 -65.33 -137.71	159.92
26 56 13 00-0575	EA		18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,072.70 -37.71 -68.16 -143.58	173.25
26 56 13 00-0576	EA		20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,121.97 -39.28 -71.08 -149.64	186.57
26 56 13 00-0577	EA		22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,213.95 -42.56 -76.98 -162.10	199.90
26 56 13 00-0578	EA		24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,321.02 -46.44 -83.94 -176.83	213.22
26 56 13 00-0579	EA		26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,393.89 -49.36 -89.04 -187.76	213.22
26 56 13 00-0580	EA		28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,494.67 -52.99 -95.56 -201.55	226.55
26 56 13 00-0581	EA		30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,595.46 -56.62 -102.09 -215.33	239.87
26 56 13 00-0582			Factory Accessories For Fiberglass Area Light Poles (26 56 13 00-0510)		
26 56 13 00-0583	EA		Open Or Capped Top For Fiberglass Area Light Poles.....	44.55	
26 56 13 00-0584	EA		Factory Side Drilling Up To Four Fixtures On Fiberglass Area Light Poles.....	44.55	
26 56 13 00-0585	EA		Smooth Shaft Finish For Fiberglass Area Light Poles.....	84.52	
26 56 13 00-0586	EA		Vibration Dampener For Fiberglass Area Light Poles.....	111.94	
26 56 13 00-0587			Concrete Area Light Poles (26 56 13 00-0177)		
26 56 13 00-0588			Octagonal Tapered, Spun Concrete Area Light Poles, Anchor Base (26 56 13 00-0587)		
26 56 13 00-0589	EA		28' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	1,880.09	453.10
26 56 13 00-0590	EA		30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	1,982.08	479.76
26 56 13 00-0591	EA		33' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,056.30	493.07
26 56 13 00-0592	EA		36' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,562.88	506.40
26 56 13 00-0593	EA		38' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,848.68	533.05
26 56 13 00-0594	EA		43' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	3,523.99	692.97
26 56 13 00-0595	EA		47' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,220.44	852.89
26 56 13 00-0596	EA		27' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base..... Note: Polished brown with acrylic coating finish.	4,112.58	453.10
26 56 13 00-0597	EA		30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base..... Note: Polished brown with acrylic coating finish.	4,748.86	479.76
26 56 13 00-0598	EA		Pole Adapter Base Plate, Galvanized Steel, 1" Thick For Adapting Up To 40'.....	461.87	159.92
26 56 13 00-0599	EA		13' High Concrete Octagonal Area Light Pole, Pink With Acrylic Coating, Finish Design.....	2,465.56	319.73
26 56 13 00-0600	EA		Pole Base Cover For All Octagon Poles.....	179.85	65.24
26 56 13 00-0601	EA		Pole Arms 24" Long, Square, 250 Watt Fixture, Dark, Architectural Bronze.....	367.51	130.49
26 56 13 00-0602			Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587) Note: Round or square.		
26 56 13 00-0603	EA		13' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,035.19	213.22
26 56 13 00-0604	EA		16' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,298.26	266.53
26 56 13 00-0605	EA		18' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,536.34	319.84
26 56 13 00-0606	EA		30' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	3,532.13	479.76
26 56 13 00-0607	EA		35' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	4,075.75	506.40
26 56 13 00-0608	EA		40' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	4,663.67	533.05
26 56 13 00-0609	EA		45' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	5,402.04	692.97
26 56 13 00-0610			Round Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)		
26 56 13 00-0611	EA		60' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 60 9-22).....	10,879.87	1,199.37
26 56 13 00-0612	EA		70' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 70 9-24).....	12,952.89	1,475.03
26 56 13 00-0613	EA		80' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C1 80 9-26).....	15,412.83	1,992.58

26 Electrical
26 50 Lighting
 26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0614 Treated Wood Area Light Poles <small>(26 56 13 00-0177)</small> See CSI section 26 05 46 00-0001 for wood poles.		
26 56 13 00-0615 Cast Iron Decorative Light Posts <small>(26 56 13 00-0177)</small>		
26 56 13 00-0616 Round Tapered, Cast Iron Decorative Light Post, Anchor Base <small>(26 56 13 00-0615)</small> Note: As manufactured by Hadco and King Luminaries or an approved equal.		
26 56 13 00-0617 EA 10' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,028.58	133.26
26 56 13 00-0618 EA 12' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,089.33	153.52
26 56 13 00-0619 EA 14' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,178.95	159.92
26 56 13 00-0620 EA 16' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,445.00	186.57
26 56 13 00-0621 EA 18' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,682.26	202.57
26 56 13 00-0622 EA 20' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,930.73	218.55
26 56 13 00-0623 Landscape Light Poles <small>(26 56 13 00-0001)</small> Note: Excludes lighting fixtures.		
26 56 13 00-0624 Aluminum Landscape Light Poles <small>(26 56 13 00-0623)</small> Note: Includes painted finish.		
26 56 13 00-0625 Round Straight, Aluminum Landscape Light Poles <small>(26 56 13 00-0624)</small>		
26 56 13 00-0626 Round Straight, Aluminum Landscape Light Poles, Anchor Base <small>(26 56 13 00-0625)</small>		
26 56 13 00-0627 EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	445.44	159.92
26 56 13 00-0628 EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	823.96	213.22
26 56 13 00-0629 Round Straight, Aluminum Landscape Light Poles, Direct Burial <small>(26 56 13 00-0625)</small>		
26 56 13 00-0630 EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....	386.33	159.92
26 56 13 00-0631 EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....	764.85	213.22
26 56 13 00-0632 Steel Landscape Light Poles <small>(26 56 13 00-0623)</small> Note: Includes painted finish.		
26 56 13 00-0633 Round Straight, Steel Landscape Light Poles <small>(26 56 13 00-0632)</small>		
26 56 13 00-0634 Round Straight, Steel Landscape Light Poles, Anchor Base <small>(26 56 13 00-0633)</small>		
26 56 13 00-0635 EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Anchor Base.....	395.89	159.92
26 56 13 00-0636 Round Straight, Steel Landscape Light Poles, Direct Burial <small>(26 56 13 00-0633)</small>		
26 56 13 00-0637 EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Direct Burial.....	378.85	159.92
26 56 13 00-0638 Light Pole Brackets And Arms <small>(26 56 13 00-0001)</small>		
26 56 13 00-0639 Light Pole Brackets <small>(26 56 13 00-0638)</small>		
26 56 13 00-0640 Bullhorn Style, Pole Top Area Light Brackets <small>(26 56 13 00-0639)</small>		
26 56 13 00-0641 Round Bullhorn Style, Pole Top Area Light Brackets <small>(26 56 13 00-0640)</small>		
26 56 13 00-0642 Steel, Round Bullhorn Style, Pole Top Area Light Brackets <small>(26 56 13 00-0641)</small> Note: Includes powdercoat finish.		
26 56 13 00-0643 EA Two Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	368.95	31.99
For Galvanized Finish, Add	30.50	
26 56 13 00-0644 EA Three Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	460.97	31.99
For Galvanized Finish, Add	39.70	
26 56 13 00-0645 EA Three Tenons At 120 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	489.06	31.99
For Galvanized Finish, Add	42.51	
26 56 13 00-0646 EA Four Tenons At 90 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	662.43	31.99
For Galvanized Finish, Add	59.85	
26 56 13 00-0647 EA Four Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	689.43	31.99
For Galvanized Finish, Add	62.55	
26 56 13 00-0648 Aluminum, Round Bullhorn Style, Pole Top Area Light Brackets <small>(26 56 13 00-0641)</small> Note: Includes satin brushed or painted finish.		
26 56 13 00-0649 EA Two Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket	294.03	31.99
For Bronze Or Satin Anodized Finish, Add	23.01	
For Black Anodized Finish, Add	46.01	
26 56 13 00-0650 EA Three Tenons At 120 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	367.42	31.99
For Bronze Or Satin Anodized Finish, Add	30.35	
For Black Anodized Finish, Add	60.69	
26 56 13 00-0651 EA Three Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	387.18	31.99
For Bronze Or Satin Anodized Finish, Add	32.32	
For Black Anodized Finish, Add	64.64	
26 56 13 00-0652 EA Four Tenons At 90 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	456.34	31.99
For Bronze Or Satin Anodized Finish, Add	39.24	
For Black Anodized Finish, Add	78.47	
26 56 13 00-0653 EA Four Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	470.46	31.99
For Bronze Or Satin Anodized Finish, Add	40.65	
For Black Anodized Finish, Add	81.30	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0654 Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)		
26 56 13 00-0655 Steel, Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0654) Note: Includes powdercoat finish.		
26 56 13 00-0656 EA Two Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket.....	395.23	31.99
For Galvanized Finish, Add	33.13	
26 56 13 00-0657 EA Three Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket	483.37	31.99
For Galvanized Finish, Add	41.94	
26 56 13 00-0658 EA Four Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket	586.89	31.99
For Galvanized Finish, Add	52.29	
26 56 13 00-0659 EA Four Tenons At 90 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket	690.89	31.99
For Galvanized Finish, Add	62.69	
26 56 13 00-0660 Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0639)		
26 56 13 00-0661 Steel, Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0660) Note: Includes powdercoat finish.		
26 56 13 00-0662 EA One Tenon, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	388.71	53.31
26 56 13 00-0663 EA Two Tenons At 90, 120 Or 180 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	569.11	53.31
26 56 13 00-0664 EA Three Tenons At 120 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	782.56	53.31
26 56 13 00-0665 EA Four Tenons At 90 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	852.78	53.31
26 56 13 00-0666 Light Pole Arms (26 56 13 00-0638)		
26 56 13 00-0667 Wood Pole Streetlight Arms (26 56 13 00-0666)		
26 56 13 00-0668 Steel, Wood Pole Streetlight Arms (26 56 13 00-0667)		
26 56 13 00-0669 EA 1-1/4" Arm Diameter, 2-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	236.64	47.98
26 56 13 00-0670 EA 1-1/4" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	252.02	53.31
26 56 13 00-0671 EA 1-1/4" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	295.26	66.64
26 56 13 00-0672 EA 2" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	338.47	53.31
26 56 13 00-0673 EA 2" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	381.46	66.64
26 56 13 00-0674 EA 2" Arm Diameter, 7-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	462.48	79.95
26 56 13 00-0675 Aluminum, Wood Pole Streetlight Arms (26 56 13 00-0667)		
26 56 13 00-0676 EA 1-1/4" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	264.65	53.31
26 56 13 00-0677 EA 2" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	345.71	53.31
26 56 13 00-0678 EA 2" Arm Diameter, 66" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	468.66	66.64
26 56 13 00-0679 EA 2" Arm Diameter, 90" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	625.21	79.95
26 56 13 00-0680 Area Light Arms (26 56 13 00-0666)		
26 56 13 00-0681 Steel Area Light Arms (26 56 13 00-0680)		
26 56 13 00-0682 EA Single, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	428.25	53.31
26 56 13 00-0683 EA Two, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	656.27	58.64
26 56 13 00-0684 EA Three, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	728.50	63.97
26 56 13 00-0685 EA Four, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	861.03	69.30
26 56 13 00-0686 EA Single, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	512.70	66.64
26 56 13 00-0687 EA Two, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	718.11	71.96
26 56 13 00-0688 Aluminum Area Light Arms (26 56 13 00-0680)		
26 56 13 00-0689 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	336.67	53.31
26 56 13 00-0690 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	414.13	66.64
26 56 13 00-0691 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	494.42	79.95
26 56 13 00-0692 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	333.85	53.31
26 56 13 00-0693 EA Two, 4' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	496.94	58.64
26 56 13 00-0694 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	408.48	66.64
26 56 13 00-0695 EA Two, 6' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	605.46	71.96
26 56 13 00-0696 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	497.25	79.95
26 56 13 00-0697 EA Two, 8' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	737.97	85.29
26 56 13 00-0698 Removal And Reinstallation Of Lighting Pole (26 56 13 00-0001)		
26 56 13 00-0699 EA Removal And Relocation Of Up To 45' Lighting Pole And Standards With One Or Two Arms	1,759.08	
26 56 13 00-0700 High Mast Lighting (26 56 13 00-0001)		
26 56 13 00-0701 High Mast Lighting Assemblies (26 56 13 00-0700) Note: Includes non-latching system, ring assembly with internal bumper, acrylic top cover, pulley supports, cast arm filter for pipe tension, transition assembly, standard head frame assembly, standard hoist, and powder coated pole. See CSI section 26 56 16 00-0036 for high mast fixtures.		
26 56 13 00-0702 EA 60' High Mast Lighting Assembly.....	32,221.46	1,637.34
26 56 13 00-0703 EA 70' High Mast Lighting Assembly.....	34,030.16	1,714.87
26 56 13 00-0704 EA 80' High Mast Lighting Assembly.....	35,872.30	1,826.86



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 56 13 00-0705	EA	90' High Mast Lighting Assembly	37,746.84	1,973.33
	26 56 13 00-0706	EA	100' High Mast Lighting Assembly	39,641.91	2,154.19
	26 56 13 00-0707	EA	110' High Mast Lighting Assembly	42,081.51	2,369.78
	26 56 13 00-0708	EA	120' High Mast Lighting Assembly	44,066.02	2,585.18
	26 56 13 00-0709	EA	130' High Mast Lighting Assembly	45,905.29	2,800.59
	26 56 13 00-0710	EA	140' High Mast Lighting Assembly	47,889.80	3,016.10
	26 56 13 00-0711	EA	150' High Mast Lighting Assembly	50,285.26	3,231.51
26 56 13 00-0712	High Mast Light Poles <small>(26 56 13 00-0700)</small>				
	26 56 13 00-0713	EA	60' High Mast Light Poles	12,522.46	983.36
	26 56 13 00-0714	EA	70' High Mast Light Poles	14,307.85	1,029.94
	26 56 13 00-0715	EA	80' High Mast Light Poles	16,116.36	1,097.22
	26 56 13 00-0716	EA	90' High Mast Light Poles	17,946.91	1,185.20
	26 56 13 00-0717	EA	100' High Mast Light Poles	19,800.57	1,293.89
	26 56 13 00-0718	EA	110' High Mast Light Poles	21,677.36	1,423.28
	26 56 13 00-0719	EA	120' High Mast Light Poles	23,113.06	1,552.66
	26 56 13 00-0720	EA	130' High Mast Light Poles	22,720.39	2,877.60
	26 56 13 00-0721	EA	140' High Mast Light Poles	25,838.16	1,811.44
	26 56 13 00-0722	EA	150' High Mast Light Poles	27,420.16	1,940.83
26 56 13 00-0723	High Mast Lighting Accessories <small>(26 56 13 00-0700)</small>				
	See CSI section 26 56 16 00-0036 for light fixtures, 26 56 26 00-0119 for lighting fixtures.				
	26 56 13 00-0724	EA	Bottom Latching System For High Mast Lighting	582.91	
	26 56 13 00-0725	EA	Top Latching System For High Mast Lighting	1,618.08	
	26 56 13 00-0726	EA	Centering Springs For High Mast Lighting	1,225.12	
	26 56 13 00-0727	EA	Electric Power Cord For High Mast Lighting	523.41	
	26 56 13 00-0728	EA	Aircraft Warning Lights For High Mast Lighting	988.85	
	26 56 13 00-0729	EA	Internal Motorized Hoist For High Mast Lighting	10,176.48	
	26 56 13 00-0730	EA	Portable Hoist Motor With Step Down Transformer For High Mast Lighting	10,258.32	
26 56 13 00-0731	Concrete Bases <small>(26 56 13 00-0001)</small>				
26 56 13 00-0732	Concrete Bases, Cast In Place <small>(26 56 13 00-0731)</small>				
	Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill. Excludes conduit.				
	26 56 13 00-0733	VLF	2' Diameter Concrete Base For Poles	81.51	
	26 56 13 00-0734	VLF	2-1/2' Diameter Concrete Base For Poles	103.53	
	26 56 13 00-0735	VLF	3' Diameter Concrete Base For Poles	126.54	
	26 56 13 00-0736	VLF	3-1/2' Diameter Concrete Base For Poles	158.19	
	26 56 13 00-0737	VLF	4' Diameter Concrete Base For Poles	188.99	
	26 56 13 00-0738	VLF	5' Diameter Concrete Base For Poles	258.92	
	26 56 13 00-0739	VLF	6' Diameter Concrete Base For Poles	342.18	
26 56 16	Roadway Lighting <small>(26 56)</small>				
26 56 16 00-0001	Metal Halide, Pole Mounted <small>(26 56 16)</small>				
	26 56 16 00-0002	EA	175 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	512.41	216.12
	26 56 16 00-0003	EA	250 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	575.50	234.60
	26 56 16 00-0004	EA	400 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	666.20	252.37
	26 56 16 00-0005	EA	1,000 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	853.36	295.78
26 56 16 00-0006	High Pressure Sodium, Pole Mounted <small>(26 56 16)</small>				
	26 56 16 00-0007	EA	100 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	445.22	252.37
	26 56 16 00-0008	EA	150 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	453.48	252.37
	26 56 16 00-0009	EA	175 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	472.73	252.37
	26 56 16 00-0010	EA	250 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	513.98	252.37
	26 56 16 00-0011	EA	400 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	594.29	252.37
	26 56 16 00-0012	EA	1,000 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	819.43	252.37
26 56 16 00-0013	Low Pressure Sodium, Pole Mounted <small>(26 56 16)</small>				
	26 56 16 00-0014	EA	135 Watt Low Pressure Sodium Exterior Roadway Fixture, Enclosed And Gasketed	509.84	137.29
	26 56 16 00-0015	EA	135 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	567.94	201.89
	26 56 16 00-0016	EA	180 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	653.82	201.89
26 56 16 00-0017	LED, Pole Mounted (Dialight) <small>(26 56 16)</small>				
	26 56 16 00-0018	EA	131 System Watts, Enclosed And Gasketed, Exterior Roadway Fixture (Dialight SL2C4ELGH)	1,190.44	152.86
26 56 16 00-0019	LED, Pole Mounted (LED-Era) <small>(26 56 16)</small>				
	26 56 16 00-0020	EA	88 System Watts, Enclosed And Gasketed, LED Exterior Roadway Fixture (LED-Era LS5)	1,451.52	138.96
	26 56 16 00-0021	EA	124 System Watts, Enclosed And Gasketed, LED Exterior Roadway Fixture (LED-Era LS7)	1,721.13	152.86



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 16 00-0022 LED, Pole Mounted (Lighting Science Group) <small>(26 56 16)</small>		
26 56 16 00-0023 EA 50 System Watts, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR1 CW R3 2B).....	1,072.36	125.07
26 56 16 00-0024 EA 75 System Watts, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR2 CW R3 2B).....	1,100.16	138.96
26 56 16 00-0025 EA 100 System Watts, Type II Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR3 CW R2 2B).....	1,188.02	145.92
26 56 16 00-0026 EA 100 System Watts, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR3 CW R3 2B).....	1,188.02	145.92
26 56 16 00-0027 EA 150 System Watts, Type II Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR4 CW R2 2B).....	1,215.81	159.81
26 56 16 00-0028 EA 150 System Watts, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR4 CW R3 2B).....	1,215.81	159.81
26 56 16 00-0029 EA 86 System Watts, Type V Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group SHB CW CLR).....	1,398.89	138.96
26 56 16 00-0030 Street Light Accessories <small>(26 56 16)</small>		
26 56 16 00-0031 Photo Controls <small>(26 56 16 00-0030)</small>		
26 56 16 00-0032 EA Photo Control, 120 Volt As Manufactured By Cooper Lighting #RA1014	82.36	
26 56 16 00-0033 EA Photo Control, Multi-Tap As Manufactured By Cooper Lighting #RA1016.....	95.23	
26 56 16 00-0034 Connector Node <small>(26 56 16 00-0030)</small>		
26 56 16 00-0035 EA Outdoor Lighting Connector Node (Philips City Touch LLC7260).....	307.49	2.54
26 56 16 00-0036 High Mast Fixtures <small>(26 56 16)</small>		
26 56 16 00-0037 Metal Halide <small>(26 56 16 00-0036)</small>		
26 56 16 00-0038 EA 400 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	777.72	132.55
26 56 16 00-0039 EA 400 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	823.92	132.55
26 56 16 00-0040 EA 750 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	832.58	151.42
26 56 16 00-0041 EA 750 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	860.29	151.42
26 56 16 00-0042 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	896.92	189.28
26 56 16 00-0043 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux.....	924.63	189.28
26 56 16 00-0044 High Pressure Sodium <small>(26 56 16 00-0036)</small>		
26 56 16 00-0045 EA 400 W High Mast HPS Fixture (VA 25 Type V) As Manufactured By Metrolux.....	796.66	132.55
26 56 16 00-0046 EA 400 W High Mast HPS Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	824.37	132.55
26 56 16 00-0047 EA 600 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	958.50	140.11
26 56 16 00-0048 EA 750 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	987.49	151.42
26 56 16 00-0049 EA 1,000 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	1,065.68	189.28
26 56 16 00-0050 LED Roadway Lighting <small>(26 56 16)</small>		
26 56 16 00-0051 LED Roadway Lighting (Philips Lumec) <small>(26 56 16 00-0050)</small>		
26 56 16 00-0052 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec GPL Series) <small>(26 56 16 00-0051)</small>		
Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 570mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 16 00-0053 EA 49 LEDs, 102 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLS Series)	964.07	128.55
26 56 16 00-0054 EA 98 LEDs, 204 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLM Series)	1,470.34	132.02
26 56 16 00-0055 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec RFM Series) <small>(26 56 16 00-0051)</small>		
Note: UL wet listed. Includes 3,000 to 4,000K color temperature, 120-277 voltage, up to 1050mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 16 00-0056 EA 48 LEDs, 55 System Watts, Type III Medium, 120-277 Volts, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec RFM Series)	719.68	128.55
26 56 16 00-0057 EA 48 LEDs, 80 System Watts, Type III Medium, 120-277 Volts, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	719.68	128.55
26 56 16 00-0058 EA 48 LEDs, 108 System Watts, Type III Medium, 120-277 Volts, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	719.68	128.55
26 56 16 00-0059 LED Roadway Lighting (Lithonia) <small>(26 56 16 00-0050)</small>		
26 56 16 00-0060 Horizontal Tenon Mount, LED Cobra Head Street Lights (Lithonia CSX1 Series) <small>(26 56 16 00-0050)</small>		
Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 700mA driver, die-cast extruded aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 16 00-0061 EA 30 LEDs, 74 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	1,367.71	121.59
26 56 16 00-0062 EA 60 LEDs, 146 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	2,222.98	125.07



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 56 16 00-0063	LED Roadway Lighting (CREE® BetaLED®) <small>(26 56 16 00-0050)</small>		
26 56 16 00-0064	Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® LEDway® STR-LWY) <small>(26 56 16 00-0063)</small>		
	Note: UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors.		
26 56 16 00-0065	EA 20 LEDs, 25 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	706.41	118.12
26 56 16 00-0066	EA 30 LEDs, 35 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	793.10	121.59
26 56 16 00-0067	EA 40 LEDs, 45 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	897.65	125.07
26 56 16 00-0068	EA 50 LEDs, 55 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	985.71	128.55
26 56 16 00-0069	EA 60 LEDs, 65 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,073.78	132.02
26 56 16 00-0070	EA 70 LEDs, 75 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,282.81	135.49
26 56 16 00-0071	EA 80 LEDs, 85 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,370.88	138.96
26 56 16 00-0072	EA 90 LEDs, 96 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,457.55	142.44
26 56 16 00-0073	EA 100 LEDs, 111 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,626.73	145.92
26 56 16 00-0074	EA 110 LEDs, 122 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,714.79	149.39
26 56 16 00-0075	EA 120 LEDs, 133 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,802.84	152.86
26 56 16 00-0076	Surface Mount, LED Transportation Fixtures (CREE® BetaLED® Edge® TSP-EDG) <small>(26 56 16 00-0063)</small>		
	Note: Direct, cantenary or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 16 00-0077	EA 40 LEDs, 47 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG)	1,399.44	125.07
	<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 16 00-0078	EA 60 LEDs, 68 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG)	1,615.43	132.02
	<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 16 00-0079	EA 80 LEDs, 90 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG)	1,831.42	138.96
	<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 16 00-0080	EA 100 LEDs, 111 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG)	2,047.40	145.92
	<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 16 00-0081	EA 120 LEDs, 132 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG)	2,692.31	152.86
	<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 16 00-0082	EA 140 LEDs, 157 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG)	2,908.30	159.81
	<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 16 00-0083	EA 160 LEDs, 179 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG)	3,124.28	166.76
	<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 16 00-0084	Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® XSP) <small>(26 56 16 00-0063)</small>		
	Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 16 00-0085	EA 4,806 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A)	588.94	125.07
	<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
	<i>For Backlight Control Shield, Add</i>	27.84	
	<i>For Field Adjustable Output, Add</i>	24.33	
	<i>For Bird Spikes, Add</i>	43.15	
	<i>For Field Adjustable Output And Utility Label, Add</i>	32.43	
	<i>For Fuse, Add</i>	48.64	
	<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	48.64	
	<i>For 480 Volt, Add</i>	72.97	
	<i>For Multi-Level, Add</i>	105.39	
26 56 16 00-0086	EA 5,340 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A)	588.94	125.07
	<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
	<i>For Backlight Control Shield, Add</i>	27.84	
	<i>For Field Adjustable Output, Add</i>	24.33	
	<i>For Bird Spikes, Add</i>	43.15	
	<i>For Field Adjustable Output And Utility Label, Add</i>	32.43	
	<i>For Fuse, Add</i>	48.64	
	<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	48.64	
	<i>For 480 Volt, Add</i>	72.97	
	<i>For Multi-Level, Add</i>	105.39	



Electrical	26
Lighting	26 50
Exterior Lighting	26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 16 00-0087	EA		8,407 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E)	650.22	125.07
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Backlight Control Shield, Add</i>	27.84	
			<i>For Field Adjustable Output, Add</i>	24.33	
			<i>For Bird Spikes, Add</i>	43.15	
			<i>For Field Adjustable Output And Utility Label, Add</i>	32.43	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	48.64	
			<i>For 480 Volt, Add</i>	72.97	
26 56 16 00-0088	EA		8,820 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E)	650.22	125.07
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Backlight Control Shield, Add</i>	27.84	
			<i>For Field Adjustable Output, Add</i>	24.33	
			<i>For Bird Spikes, Add</i>	43.15	
			<i>For Field Adjustable Output And Utility Label, Add</i>	32.43	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	48.64	
			<i>For 480 Volt, Add</i>	72.97	
26 56 16 00-0089	EA		9,612 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B)	759.17	125.07
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Field Adjustable Output, Add</i>	24.33	
			<i>For Backlight Control Shield, Add</i>	39.74	
			<i>For Field Adjustable Output And Utility Label, Add</i>	32.43	
			<i>For Fuse, Add</i>	48.64	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	48.64	
			<i>For Bird Spikes, Add</i>	70.40	
			<i>For 480 Volt, Add</i>	72.97	
			<i>For Multi-Level, Add</i>	105.39	
26 56 16 00-0090	EA		10,680 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B)	759.17	125.07
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Field Adjustable Output, Add</i>	24.33	
			<i>For Backlight Control Shield, Add</i>	39.74	
			<i>For Field Adjustable Output And Utility Label, Add</i>	32.43	
			<i>For Fuse, Add</i>	48.64	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	48.64	
			<i>For Bird Spikes, Add</i>	70.40	
			<i>For 480 Volt, Add</i>	72.97	
			<i>For Multi-Level, Add</i>	105.39	
26 56 16 00-0091	EA		13,732 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F)	861.33	125.07
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Field Adjustable Output, Add</i>	24.33	
			<i>For Backlight Control Shield, Add</i>	39.74	
			<i>For Field Adjustable Output And Utility Label, Add</i>	32.43	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	48.64	
			<i>For Bird Spikes, Add</i>	70.40	
			<i>For 480 Volt, Add</i>	72.97	
26 56 16 00-0092	EA		14,408 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F)	861.33	125.07
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Field Adjustable Output, Add</i>	24.33	
			<i>For Backlight Control Shield, Add</i>	39.74	
			<i>For Field Adjustable Output And Utility Label, Add</i>	32.43	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	48.64	
			<i>For Bird Spikes, Add</i>	70.40	
			<i>For 480 Volt, Add</i>	72.97	
26 56 16 00-0093	EA		2,529 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G)	479.97	125.07
			<i>For Utility Label, Add</i>	8.10	
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	24.33	
			<i>For 0 To 10 Volt Dimming, Add</i>	48.64	
26 56 16 00-0094	EA		2,722 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G)	479.97	125.07
			<i>For Utility Label, Add</i>	8.10	
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	24.33	
			<i>For 0 To 10 Volt Dimming, Add</i>	48.64	
26 56 16 00-0095	EA		3,819 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-C)	505.52	125.07
			<i>For Utility Label, Add</i>	8.10	
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	24.33	
			<i>For 0 To 10 Volt Dimming, Add</i>	48.64	
26 56 16 00-0096	EA		4,109 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-C)	505.52	125.07
			<i>For Utility Label, Add</i>	8.10	
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	24.33	
			<i>For 0 To 10 Volt Dimming, Add</i>	48.64	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 16 00-0097	EA		4,548 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	514.03	125.07
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Field Adjustable Output, Add</i>	24.33	
			<i>For Field Adjustable Output And Utility Label, Add</i>	32.43	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	48.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	48.64	
26 56 16 00-0098	EA		4,627 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	514.03	125.07
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Field Adjustable Output, Add</i>	24.33	
			<i>For Field Adjustable Output And Utility Label, Add</i>	32.43	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	48.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	48.64	
26 56 16 00-0099			Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® RSW™) <small>(26 56 16 00-0063)</small> Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Includes utility label and NEMA® photocell receptacle. Excludes sensors.		
26 56 16 00-0100	EA		3,300 Lumens, 3,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-30K-UL-GY-N).....	497.01	125.07
			<i>For Field Adjustable Output, Add</i>	24.33	
			<i>For Backlight Control Shield, Add</i>	53.05	
			<i>For Bird Spikes, Add</i>	70.88	
26 56 16 00-0101	EA		3,300 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-40K-UL-GY-N).....	497.01	125.07
			<i>For Field Adjustable Output, Add</i>	24.33	
			<i>For Backlight Control Shield, Add</i>	53.05	
			<i>For Bird Spikes, Add</i>	70.88	
26 56 16 00-0102	EA		5,000 Lumens, 3,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-30K-UL-GY-N).....	514.03	125.07
			<i>For Field Adjustable Output, Add</i>	24.33	
			<i>For Backlight Control Shield, Add</i>	53.05	
			<i>For Bird Spikes, Add</i>	70.88	
26 56 16 00-0103	EA		5,000 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-40K-UL-GY-N).....	514.03	125.07
			<i>For Field Adjustable Output, Add</i>	24.33	
			<i>For Backlight Control Shield, Add</i>	53.05	
			<i>For Bird Spikes, Add</i>	70.88	
26 56 16 00-0104			LED Roadway Lighting (Cooper Lighting) <small>(26 56 16 00-0050)</small>		
26 56 16 00-0105			Horizontal Tenon Mount, LED Roadway Fixtures (Cooper Lighting Streetworks NVN™) <small>(26 56 16 00-0104)</small> Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 16 00-0106	EA		1 LED Light Square, 51 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	636.84	125.07
26 56 16 00-0107	EA		2 LED Light Squares, 103 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	847.73	138.96
26 56 16 00-0108	EA		3 LED Light Squares, 154 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	914.74	159.81
26 56 16 00-0109	EA		4 LED Light Squares, 206 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,328.63	173.71
26 56 16 00-0110	EA		6 LED Light Squares, 309 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,727.38	197.76
26 56 16 00-0111			LED Roadway Lighting (PlanLED) <small>(26 56 16 00-0050)</small>		
26 56 16 00-0112			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera HERA) <small>(26 56 16 00-0111)</small> Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 16 00-0113	EA		8,500 Lumens, 85 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 85W).....	751.39	121.59
26 56 16 00-0114	EA		11,000 Lumens, 110 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 110W).....	812.60	122.93
26 56 16 00-0115	EA		15,000 Lumens, 150 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 150W).....	861.38	125.07
26 56 16 00-0116			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera SETA) <small>(26 56 16 00-0111)</small> Note: UL wet listed. Includes 3,000K, 3,500K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 16 00-0117	EA		7,200 Lumens, 60 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET060).....	514.83	118.66
26 56 16 00-0118	EA		10,000 Lumens, 80 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET080).....	548.38	120.79



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 16 00-0119 EA 12,500 Lumens, 100 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SET100).....	600.66	122.93
26 56 16 00-0120 Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera META) <small>(26 56 16 00-0111)</small> Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 16 00-0121 EA 13,000 Lumens, 100 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT100).....	634.62	122.93
For 0 To 10 Volt Dimming, Add	50.17	
For 347-480 Volt, Add	50.17	
26 56 16 00-0122 EA 16,900 Lumens, 130 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT130).....	697.65	124.00
For 0 To 10 Volt Dimming, Add	50.17	
For 347-480 Volt, Add	14.83	
26 56 16 00-0123 EA 19,500 Lumens, 150 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT150).....	746.63	125.07
For 0 To 10 Volt Dimming, Add	50.17	
For 347-480 Volt, Add	-5.30	
26 56 16 00-0124 LED Roadway Lighting (General Electric) <small>(26 56 16 00-0050)</small>		
26 56 16 00-0125 Horizontal Tenon Mount, LED Cobra Head Street Lights (General Electric) <small>(26 56 16 00-0124)</small> Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or gray powder coat finish. Excludes sensors.		
26 56 16 00-0126 EA 2,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 02XX 40 A GRAY).....	407.29	118.12
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >25 To 500, Deduct	-17.11	
For >500, Deduct	-27.37	
26 56 16 00-0127 EA 3,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 03XX 40 A GRAY).....	410.50	119.72
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >25 To 500, Deduct	-17.11	
For >500, Deduct	-27.37	
26 56 16 00-0128 EA 4,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 04XX 40 A GRAY).....	426.08	121.59
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >25 To 500, Deduct	-18.29	
For >500, Deduct	-27.43	
26 56 16 00-0129 EA 5,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 05XX 40 A GRAY).....	441.66	122.93
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >25 To 500, Deduct	-19.58	
For >500, Deduct	-29.37	
26 56 16 00-0130 EA 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 07XX 40 A GRAY).....	482.50	125.60
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >25 To 500, Deduct	-23.13	
For >500, Deduct	-48.57	
26 56 16 00-0131 EA 8,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 08XX 40 A GRAY).....	504.01	126.67
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >25 To 500, Deduct	-25.07	
For >500, Deduct	-37.60	
26 56 16 00-0132 EA 9,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 10XX 40 A GRAY).....	544.32	128.55
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >25 To 500, Deduct	-28.72	
For >500, Deduct	-43.09	
26 56 16 00-0133 EA 13,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERLH 0 13XX 40 A GRAY).....	629.81	132.02
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >25 To 500, Deduct	-36.58	
For >500, Deduct	-54.87	
26 56 16 00-0134 EA 19,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL2 0 19XX 40 A GRAY).....	729.78	138.96
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >25 To 500, Deduct	-45.18	
For >500, Deduct	-67.78	
26 56 16 00-0135 LED Roadway Lighting (Acuity AEL Autobahn) <small>(26 56 16 00-0050)</small>		
26 56 16 00-0136 Horizontal Tenon Mount, LED Cobra Head Street Lights (Acuity AEL Autobahn) <small>(26 56 16 00-0135)</small> Note: UL wet listed. Includes 4,000K or 5,000K color temperature, 120-480 voltage, integral 10kV surge suppression, 0-10V dimming, die-cast extruded aluminum housing assembly and white, black, gray, graphite or bronze powder coat finish. Excludes sensors.		
26 56 16 00-0137 EA 4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 20ALEDE70).....	729.82	121.59
26 56 16 00-0138 EA 6,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 30BLEDE70).....	892.82	125.07
26 56 16 00-0139 EA 9,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 40BLEDE70).....	1,221.18	128.55

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 16 00-0140	EA		13,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 60BLEDE70).....	1,552.68	133.62
26 56 16 00-0141	EA		17,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 80BLEDE70).....	1,876.01	137.36
26 56 16 00-0142			LED Roadway Lighting (Leotek) <small>(26 56 16 00-0050)</small>		
26 56 16 00-0143			Horizontal Tenon Mount, LED Cobra Head Street Lights (Leotek) <small>(26 56 16 00-0142)</small> Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, integral surge protector, die-cast and extruded aluminum housing assembly and gray powder coat finish. Excludes sensors.		
26 56 16 00-0144	EA		Up To 3,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-XXX-WL).....	417.15	121.59
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-17.40	
			<i>For >1,000 To 2,500, Deduct</i>	-24.35	
			<i>For >2,500, Deduct</i>	-31.31	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0145	EA		Up To 5,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-1AMP-WL).....	425.46	122.93
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-17.96	
			<i>For >1,000 To 2,500, Deduct</i>	-25.14	
			<i>For >2,500, Deduct</i>	-32.33	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0146	EA		Up To 5,950 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-6M2-MV-NW-X-GY-XXX-WL).....	449.67	123.73
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-20.22	
			<i>For >1,000 To 2,500, Deduct</i>	-28.31	
			<i>For >2,500, Deduct</i>	-36.40	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0147	EA		Up To 9,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC3-10M2-MV-NW-X-GY-XXX-WL).....	513.50	128.55
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-25.64	
			<i>For >1,000 To 2,500, Deduct</i>	-35.90	
			<i>For >2,500, Deduct</i>	-46.16	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0148	EA		Up To 11,450 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-12M2-MV-NW-X-GY-XXX-WL).....	590.49	132.02
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-32.65	
			<i>For >1,000 To 2,500, Deduct</i>	-45.70	
			<i>For >2,500, Deduct</i>	-58.76	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0149	EA		Up To 14,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-15M2-MV-NW-X-GY-XXX-WL).....	594.76	134.15
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-32.65	
			<i>For >1,000 To 2,500, Deduct</i>	-45.70	
			<i>For >2,500, Deduct</i>	-58.76	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0150	EA		Up To 16,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-18M2-MV-NW-X-GY-XXX-WL).....	713.13	136.29
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-44.05	
			<i>For >1,000 To 2,500, Deduct</i>	-61.68	
			<i>For >2,500, Deduct</i>	-79.30	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0151	EA		Up To 18,750 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-20M2-MV-NW-X-GY-XXX-WL).....	745.59	138.96
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-46.77	
			<i>For >1,000 To 2,500, Deduct</i>	-65.47	
			<i>For >2,500, Deduct</i>	-84.18	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 16 00-0152	EA		Up To 22,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-24M2-MV-NW-X-GY-XXX-WL).....	824.41	141.11
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-54.22	
			<i>For >1,000 To 2,500, Deduct</i>	-75.91	
			<i>For >2,500, Deduct</i>	-97.60	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0153	EA		Up To 29,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC9-30M2-MV-NW-X-GY-XXX-WL).....	879.51	143.24
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-59.30	
			<i>For >1,000 To 2,500, Deduct</i>	-83.02	
			<i>For >2,500, Deduct</i>	-106.75	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0154	EA		Up To 4,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-20F-MV-NW-X-GY-XXX-WL).....	472.91	122.93
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-22.71	
			<i>For >1,000 To 2,500, Deduct</i>	-31.79	
			<i>For >2,500, Deduct</i>	-40.87	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0155	EA		Up To 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-30F-MV-NW-X-GY-XXX-WL).....	514.34	126.14
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-26.21	
			<i>For >1,000 To 2,500, Deduct</i>	-36.69	
			<i>For >2,500, Deduct</i>	-47.17	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0156	EA		Up To 9,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-XXX-WL).....	550.77	128.55
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-29.37	
			<i>For >1,000 To 2,500, Deduct</i>	-41.12	
			<i>For >2,500, Deduct</i>	-52.86	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0157	EA		Up To 12,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-1AMP-WL).....	582.64	131.48
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-31.97	
			<i>For >1,000 To 2,500, Deduct</i>	-44.75	
			<i>For >2,500, Deduct</i>	-57.54	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0158	EA		Up To 13,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-60F-MV-NW-X-GY-XXX-WL).....	614.14	132.56
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-34.90	
			<i>For >1,000 To 2,500, Deduct</i>	-48.87	
			<i>For >2,500, Deduct</i>	-62.83	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0159	EA		Up To 17,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-80F-MV-NW-X-GY-XXX-WL).....	719.79	137.36
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-44.51	
			<i>For >1,000 To 2,500, Deduct</i>	-62.31	
			<i>For >2,500, Deduct</i>	-80.11	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0160	EA		Up To 19,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-90F-MV-NW-X-GY-XXX-WL).....	805.33	140.04
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-52.53	
			<i>For >1,000 To 2,500, Deduct</i>	-73.54	
			<i>For >2,500, Deduct</i>	-94.55	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 16 00-0161	EA		Up To 22,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-100F-MV-NW-X-GY-XXX-WL).....	851.57	140.57
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-57.04	
			For >1,000 To 2,500, Deduct	-79.86	
			For >2,500, Deduct	-102.68	
			For Twist Lock Shorting Cap, Add	5.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.14	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.87	
26 56 16 00-0162	EA		Up To 26,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-120F-MV-NW-X-GY-XXX-WL).....	896.58	142.17
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-61.22	
			For >1,000 To 2,500, Deduct	-85.71	
			For >2,500, Deduct	-110.20	
			For Twist Lock Shorting Cap, Add	5.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.14	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.87	
26 56 16 00-0163	EA		Up To 11,720 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-30H-MV-NW-X-GY-1AMP).....	508.91	134.15
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-24.06	
			For >1,000 To 2,500, Deduct	-33.68	
			For >2,500, Deduct	-43.31	
			For Twist Lock Shorting Cap, Add	5.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.14	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.87	
26 56 16 00-0164	EA		Up To 15,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-40H-MV-NW-X-GY-1AMP).....	545.47	135.49
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-27.45	
			For >1,000 To 2,500, Deduct	-38.43	
			For >2,500, Deduct	-49.41	
			For Twist Lock Shorting Cap, Add	5.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.14	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.87	
26 56 16 00-0165	EA		Up To 4,180 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ0-15H-MV-NW-X-GY-XXX-WL).....	402.34	122.67
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-15.70	
			For >1,000 To 2,500, Deduct	-21.98	
			For >2,500, Deduct	-28.26	
			For Twist Lock Shorting Cap, Add	5.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.14	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.87	
26 56 16 00-0166	EA		Up To 5,510 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ1-20H-MV-NW-X-GY-XXX-WL).....	409.00	123.73
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-16.15	
			For >1,000 To 2,500, Deduct	-22.61	
			For >2,500, Deduct	-29.08	
			For Twist Lock Shorting Cap, Add	5.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.14	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.87	
26 56 16 00-0167	EA		Up To 7,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ2-20H-MV-NW-X-GY-1AMP-WL).....	439.79	126.14
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-18.75	
			For >1,000 To 2,500, Deduct	-26.25	
			For >2,500, Deduct	-33.75	
			For Twist Lock Shorting Cap, Add	5.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.14	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.87	
26 56 16 00-0168	EA		Up To 16,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-60G-MV-NW-X-GY-XXX-WL).....	644.23	136.29
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-37.16	
			For >1,000 To 2,500, Deduct	-52.03	
			For >2,500, Deduct	-66.90	
			For Twist Lock Shorting Cap, Add	5.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.14	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.87	
26 56 16 00-0169	EA		Up To 22,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-80G-MV-NW-X-GY-XXX-WL).....	819.94	140.57
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >500 To 1,000, Deduct	-53.88	
			For >1,000 To 2,500, Deduct	-75.43	
			For >2,500, Deduct	-96.99	
			For Twist Lock Shorting Cap, Add	5.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	16.14	
			For Ripley Long-Life Twist Lock Photocontrol, Add	28.87	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 16 00-0170	EA		Up To 22,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL2-60G-MV-NW-X-GY-1AMP-WL).....	739.69	141.11
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >500 To 1,000, Deduct</i>	-45.75	
			<i>For >1,000 To 2,500, Deduct</i>	-64.05	
			<i>For >2,500, Deduct</i>	-82.35	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0171	EA		Up To 5,484 Lumens, Horizontal Tenon Mount, LED Security Light (Leotek® SafeGuard™ SG1-01-MV-NW-5-GY).....	389.32	122.93
			<i>For >500 To 1,000, Deduct</i>	-14.35	
			<i>For >1,000 To 2,500, Deduct</i>	-20.08	
			<i>For >2,500, Deduct</i>	-25.82	
			<i>For Twist Lock Shorting Cap, Add</i>	5.38	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	16.14	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	28.87	
26 56 16 00-0172			Induction Roadway Lighting ^(26 56 16)		
26 56 16 00-0173			Induction Roadway Lighting (US Lighting Tech) ^(26 56 16 00-0172)		
			Note: Includes gray powder coat finish heavy duty die cast aluminum body and flat glass lens.		
26 56 16 00-0174	EA		40 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	671.26	160.35
26 56 16 00-0175	EA		70 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	750.68	165.69
26 56 16 00-0176	EA		100 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	772.06	176.38
26 56 16 00-0177	EA		150 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	793.44	187.07
26 56 16 00-0178	EA		200 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	962.23	192.42
26 56 16 00-0179	EA		250 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	978.42	197.76
26 56 16 00-0180	EA		40 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	613.51	160.35
26 56 16 00-0181	EA		70 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	701.19	165.69
26 56 16 00-0182	EA		100 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	722.57	176.38
26 56 16 00-0183	EA		150 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	743.95	187.07
26 56 23			Area Lighting ^(26 56)		
26 56 23 00-0001			Exterior Globe ^(26 56 23)		
26 56 23 00-0002			Incandescent ^(26 56 23 00-0001)		
26 56 23 00-0003	EA		100 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....	57.78	17.65
26 56 23 00-0004	EA		150-200 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture	98.46	17.65
26 56 23 00-0005	EA		100 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....	72.37	17.65
26 56 23 00-0006	EA		150-200 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture	104.09	17.65
26 56 23 00-0007			Surface Mounted, Rectangular Exterior Area Fixture ^(26 56 23)		
26 56 23 00-0008			Metal Halide ^(26 56 23 00-0007)		
26 56 23 00-0009	EA		175 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	484.10	201.89
26 56 23 00-0010	EA		250 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	549.26	227.13
26 56 23 00-0011	EA		400 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	651.80	252.37
26 56 23 00-0012	EA		1,000 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	839.98	295.78
26 56 23 00-0013			High Pressure Sodium ^(26 56 23 00-0007)		
26 56 23 00-0014	EA		70 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	460.89	172.62
26 56 23 00-0015	EA		100 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	499.58	183.72
26 56 23 00-0016	EA		150 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	538.03	193.82
26 56 23 00-0017	EA		175 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	556.44	201.89
26 56 23 00-0018	EA		250 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	616.73	227.13
26 56 23 00-0019	EA		400 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	665.77	252.37
26 56 23 00-0020	EA		1,000 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	914.88	295.78
26 56 23 00-0021			Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures ^(26 56 23)		
26 56 23 00-0022			High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures ^(26 56 23 00-0021)		
			Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 23 00-0023	EA		35 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	523.20	136.27
26 56 23 00-0024	EA		50 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	545.91	151.42
26 56 23 00-0025	EA		70 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	587.13	172.62
26 56 23 00-0026	EA		100 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	604.92	183.72
26 56 23 00-0027	EA		150 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	623.72	193.82
26 56 23 00-0028	EA		175 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	653.16	201.89
26 56 23 00-0029	EA		250 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	714.91	227.13
26 56 23 00-0030	EA		400 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	858.87	252.37



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 56 23 00-0031		Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 23 00-0021)</small>		
		Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 23 00-0032	EA	50 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	576.16	151.42
26 56 23 00-0033	EA	70 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	612.82	172.62
26 56 23 00-0034	EA	100 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	634.81	183.72
26 56 23 00-0035	EA	150 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	662.89	193.82
26 56 23 00-0036	EA	175 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	678.92	201.89
26 56 23 00-0037	EA	250 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	742.02	227.13
26 56 23 00-0038	EA	400 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	930.75	252.37
26 56 23 00-0039		Compact Fluorescent And Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 23 00-0021)</small>		
		Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 23 00-0040	EA	7 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	190.60	70.58
26 56 23 00-0041	EA	9 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	199.46	74.99
26 56 23 00-0042	EA	13 Or 14 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	217.98	79.41
26 56 23 00-0043	EA	75 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	219.24	88.22
26 56 23 00-0044	EA	100 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	247.46	101.45
26 56 23 00-0045		Wall Packs <small>(26 56 23)</small>		
26 56 23 00-0046		Non Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 23 00-0045)</small>		
		Note: Polycarbonate body and aluminum reflector. 11" x 6-1/2" x 5-1/4". Lithonia TWS.		
26 56 23 00-0047	EA	42 Watt Compact Fluorescent, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	245.90	48.25
26 56 23 00-0048	EA	50 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	260.77	48.25
26 56 23 00-0049	EA	35 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	260.77	48.25
26 56 23 00-0050	EA	70 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	332.82	48.25
26 56 23 00-0051		Semi Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 23 00-0045)</small>		
		Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWA.		
26 56 23 00-0052	EA	42 Watt Compact Fluorescent, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	449.12	48.25
26 56 23 00-0053	EA	50 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	454.46	48.25
26 56 23 00-0054	EA	70 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	459.09	48.25
26 56 23 00-0055	EA	100 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	450.66	48.25
26 56 23 00-0056	EA	70 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	415.98	48.25
26 56 23 00-0057	EA	100 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	396.94	48.25
26 56 23 00-0058		Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 23 00-0045)</small>		
		Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWAC.		
26 56 23 00-0059	EA	50 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	471.06	48.25
26 56 23 00-0060	EA	70 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	475.93	48.25
26 56 23 00-0061	EA	100 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	467.51	48.25
26 56 23 00-0062	EA	70 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	474.29	48.25
26 56 23 00-0063	EA	100 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	474.29	48.25
26 56 23 00-0064		Non Cutoff, Borosilicate Glass Lens, Small Wall Packs <small>(26 56 23 00-0045)</small>		
		Note: Aluminum body and reflector. 9" x 13" x 7-3/8". Lithonia TWR1.		
26 56 23 00-0065	EA	70 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	463.28	64.27
26 56 23 00-0066	EA	100 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	463.28	64.27
26 56 23 00-0067	EA	175 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	437.18	64.27
26 56 23 00-0068	EA	70 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	447.19	64.27
26 56 23 00-0069	EA	100 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	447.19	64.27
26 56 23 00-0070	EA	150 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	418.25	64.27
26 56 23 00-0071		Cutoff, Borosilicate Glass Lens, Small Wall Packs <small>(26 56 23 00-0045)</small>		
		Note: Aluminum body and reflector. 10-1/4" x 13" x 8-15/32". Lithonia TWR1C.		
26 56 23 00-0072	EA	70 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	478.74	64.27
26 56 23 00-0073	EA	100 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	478.74	64.27
26 56 23 00-0074	EA	175 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	478.74	64.27
26 56 23 00-0075	EA	70 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	463.39	64.27
26 56 23 00-0076	EA	100 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	463.39	64.27
26 56 23 00-0077	EA	150 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	463.39	64.27
26 56 23 00-0078		Full Cutoff, Tempered Glass Lens, Small Wall Packs <small>(26 56 23 00-0045)</small>		
		Note: Aluminum body and reflector. 9-3/8" x 14-3/8" x 8-3/4". Meets Nighttime Friendly criteria. Lithonia TWR1S.		
26 56 23 00-0079	EA	175 Watt Metal Halide, Full Cutoff, Tempered Glass Lens, Small Wall Pack	603.65	64.27
26 56 23 00-0080		Cutoff, Borosilicate Glass Lens, Medium Wall Packs <small>(26 56 23 00-0045)</small>		
		Note: Aluminum body and reflector. Lithonia TWR2.		
26 56 23 00-0081	EA	250 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	583.33	79.61
		Note: 9-1/4" x 17-7/8" x 9-3/8".		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0082 EA 400 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack Note: 9-1/4" x 17-7/8" x 12-1/2".	618.71	79.61
26 56 23 00-0083 EA 250 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack Note: 9-1/4" x 17-7/8" x 9-3/8".	660.89	79.61
26 56 23 00-0084 EA 400 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack Note: 9-1/4" x 17-7/8" x 12-1/2".	672.50	79.61
26 56 23 00-0085 Cutoff, Tempered Glass Lens, Medium Wall Packs (26 56 23 00-0045) Note: Aluminum body and reflector. 10" x 17-1/8" x 14-1/2". Lithonia TWR2C.		
26 56 23 00-0086 EA 250 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	628.84	79.61
26 56 23 00-0087 EA 400 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	668.59	79.61
26 56 23 00-0088 Non Cutoff, Polycarbonate Lens, Large Wall Packs (26 56 23 00-0045) Note: Polycarbonate body and powder coated reflector. 15-7/16" x 16-1/8" x 7-3/4". Lithonia TWP.		
26 56 23 00-0089 EA 100 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Large Wall Pack	598.23	96.51
26 56 23 00-0090 EA 175 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Large Wall Pack	556.13	96.51
26 56 23 00-0091 EA 70 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	588.49	96.51
26 56 23 00-0092 EA 100 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	591.71	96.51
26 56 23 00-0093 EA 150 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	595.09	96.51
26 56 23 00-0094 Non Cutoff, Borosilicate Glass Lens, Large Wall Packs (26 56 23 00-0045) Note: Aluminum body and reflector. 15-3/4" x 16-1/4" x 8". Lithonia TWH.		
26 56 23 00-0095 EA 175 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	598.24	96.51
26 56 23 00-0096 EA 250 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	612.29	96.51
26 56 23 00-0097 EA 400 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	654.39	96.51
26 56 23 00-0098 EA 150 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	626.33	96.51
26 56 23 00-0099 EA 250 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	640.38	96.51
26 56 23 00-0100 EA 400 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	668.42	96.51
26 56 23 00-0101 Full Cutoff, LED Wall Packs (26 56 23 00-0045)		
26 56 23 00-0102 Full Cutoff, LED Wall Packs (Lithonia) (26 56 23 00-0101)		
26 56 23 00-0103 EA 30 LEDs, 57 System Watts, 530 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED)	1,200.27	93.54
26 56 23 00-0104 EA 30 LEDs, 35 System Watts, 350 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED)	1,310.25	93.54
26 56 23 00-0105 Full Cutoff, LED Wall Packs (CREE® BetaLED®) (26 56 23 00-0101)		
26 56 23 00-0106 Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® Edge® SEC-EDG) (26 56 23 00-0105) Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0107 EA 20 LEDs, 26 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	769.08	90.86
Note: Includes 350mA or 525mA driver.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.21	
For Bird Spikes, Add	39.73	
For Fuse, Add	48.64	
For 0 To 10 Volt Dimming, Add	48.64	
For 480 Volt, Add	72.97	
For Multi-Level, Add	105.39	
26 56 23 00-0108 EA 40 LEDs, 47 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	992.59	96.21
Note: Includes 350mA or 525mA driver.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.21	
For Bird Spikes, Add	40.26	
For Fuse, Add	48.64	
For 0 To 10 Volt Dimming, Add	48.64	
For 480 Volt, Add	72.97	
For Multi-Level, Add	105.39	
26 56 23 00-0109 EA 60 LEDs, 68 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	1,113.19	101.55
Note: Includes 350mA or 525mA driver.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.21	
For Bird Spikes, Add	40.80	
For Fuse, Add	48.64	
For 0 To 10 Volt Dimming, Add	48.64	
For 480 Volt, Add	72.97	
For Multi-Level, Add	105.39	
26 56 23 00-0110 EA 80 LEDs, 90 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	1,439.59	106.90
Note: Includes 350mA or 525mA driver.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.21	
For Bird Spikes, Add	41.33	
For Fuse, Add	48.64	
For 0 To 10 Volt Dimming, Add	48.64	
For 480 Volt, Add	72.97	
For Multi-Level, Add	105.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0111 EA 100 LEDs, 111 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,663.09	112.24
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.21	
For Bird Spikes, Add	41.86	
For Fuse, Add	48.64	
For 0 To 10 Volt Dimming, Add	48.64	
For 480 Volt, Add	72.97	
For Multi-Level, Add	105.39	
26 56 23 00-0112 EA 120 LEDs, 132 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,886.59	117.59
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.21	
For Bird Spikes, Add	42.40	
For Fuse, Add	48.64	
For 0 To 10 Volt Dimming, Add	48.64	
For 480 Volt, Add	72.97	
For Multi-Level, Add	105.39	
26 56 23 00-0113 Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® XSPW™) (26 56		
<small>23 00-0105</small> Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, Class 2 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0114 EA 25 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™).....	453.07	90.86
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.21	
For 0 To 10 Volt Dimming, Add	48.64	
For Multi-Level, Add	48.64	
26 56 23 00-0115 EA 42 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™).....	527.07	96.21
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.21	
For 0 To 10 Volt Dimming, Add	48.64	
For Multi-Level, Add	48.64	
26 56 23 00-0116 Semi Cutoff, Induction Wall Packs (26 56 23 00-0045)		
26 56 23 00-0117 Semi Cutoff, Induction Wall Packs (Everlast®) (26 56 23 00-0116)		
Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 23 00-0118 EA 70 Watts, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-70)	719.92	90.86
26 56 23 00-0119 EA 80 Watts, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-80)	736.61	96.21
26 56 23 00-0120 EA 100 Watts, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-100)	753.28	101.55
26 56 23 00-0121 EA 120 Watts, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-120)	835.93	106.90
26 56 23 00-0122 Wall Pack Accessories (26 56 23 00-0045)		
26 56 23 00-0123 EA Photocell For Wall Pack.....	91.29	24.13
26 56 23 00-0124 EA Wire Guard For Mini And Small Wall Pack	100.29	24.13
26 56 23 00-0125 EA Wire Guard For Medium And Large Wall Pack	137.91	24.13
26 56 23 00-0126 EA Clear Polycarbonate Vandal Guard For Wall Packs	192.21	24.13
26 56 23 00-0127 EA Full Cutoff Visor For Wall Pack	97.83	24.13
26 56 23 00-0128 Open Face LED Wall Pack (26 56 23 00-0045)		
Note: Heavy-duty cast aluminum housing is polyester powder coated to be rust and corrosion proof, High-quality shatter-resistant glass		
26 56 23 00-0129 EA 3,640 Lumens, 28 Watt, Open Face Wall Pack, With Motion Sensor (Maxlite WP-OP28U-50B-MS).....	501.15	96.51
26 56 23 00-0130 EA 5,540 Lumens, 40 Watt, Open Face Wall Pack, With Motion Sensor (Maxlite WP-OP40U-50B-MS).....	532.46	96.51
26 56 23 00-0131 EA 7,065 Lumens, 50 Watt, Open Face Wall Pack, With Motion Sensor (Maxlite WP-OP50U-50B-MS).....	548.86	96.51
26 56 23 00-0132 EA 11,375 Lumens, 80 Watt, Open Face Wall Pack, With Motion Sensor (Maxlite WP-OP80U-50B-MS).....	562.16	96.51
26 56 23 00-0133 EA 16,945 Lumens, 120 Watt, Open Face Wall Pack, With Motion Sensor (Maxlite WP-OP120U-50B-MS).....	661.91	96.51
26 56 23 00-0134 LED Area Fixtures (26 56 23)		
26 56 23 00-0135 Pole Mount, LED Area Fixtures (26 56 23 00-0134)		
26 56 23 00-0136 Pole Mount, Rectangular, LED Architectural Area Fixtures (Lithonia DSX) (26		
<small>56 23 00-0135</small> Note: UL wet listed. Includes 4,000K color temperature, 480 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0137 EA 20 LEDs, 45 System Watts, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED).....	2,329.80	90.86
26 56 23 00-0138 EA 40 LEDs, 91 System Watts, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED)	2,512.34	96.21
26 56 23 00-0139 EA 80 LEDs, 188 System Watts, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED).....	2,705.55	106.90
26 56 23 00-0140 EA 100 LEDs, 218 System Watts, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED).....	2,716.24	112.24
26 56 23 00-0141 Arm Mount, Rectangular, LED Area Fixtures (CREE® BetaLED® Edge®		
ARE-EDG) (26 56 23 00-0135)		
Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type III Medium optic. Excludes sensors. All fixtures without the backlight control shield are DLC qualified		
26 56 23 00-0142 EA 40 LEDs, 47 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	1,033.78	96.21
For Backlight Shielding, Add	19.25	
For Type II Medium Optic, Add	32.73	
For 347-480 Volt, Add	59.38	
For Multi-Level Drive Currents, Add	192.47	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0143	EA		60 LEDs, 68 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	1,246.55	101.55
			<i>For Backlight Shielding, Add</i>	19.25	
			<i>For Type II Medium Optic, Add</i>	33.27	
			<i>For 347-480 Volt, Add</i>	59.38	
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0144	EA		80 LEDs, 90 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	1,540.44	106.90
			<i>For Backlight Shielding, Add</i>	19.25	
			<i>For Type II Medium Optic, Add</i>	33.80	
			<i>For 347-480 Volt, Add</i>	59.38	
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0145	EA		100 LEDs, 111 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	1,753.22	112.24
			<i>For Backlight Shielding, Add</i>	19.25	
			<i>For Type II Medium Optic, Add</i>	34.33	
			<i>For 347-480 Volt, Add</i>	59.38	
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0146	EA		120 LEDs, 132 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	1,966.00	117.59
			<i>For Backlight Shielding, Add</i>	19.25	
			<i>For Type II Medium Optic, Add</i>	34.87	
			<i>For 347-480 Volt, Add</i>	59.38	
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0147	EA		140 LEDs, 157 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	2,243.39	122.93
			<i>For Backlight Shielding, Add</i>	19.25	
			<i>For Type II Medium Optic, Add</i>	35.40	
			<i>For 347-480 Volt, Add</i>	59.38	
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0148	EA		160 LEDs, 179 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	2,456.17	128.27
			<i>For Backlight Shielding, Add</i>	19.25	
			<i>For Type II Medium Optic, Add</i>	35.94	
			<i>For 347-480 Volt, Add</i>	59.38	
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0149			Direct Or Arm Mount, Rectangular, High Output, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EHO) <small>(26 56 23 00-0135)</small>		
			Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0150	EA		120 LEDs, 267 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO).....	1,816.78	117.59
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Bird Spikes, Add</i>	37.30	
			<i>For 5,000K Color Temperature, Add</i>	40.54	
			<i>For Fuse, Add</i>	48.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	48.64	
			<i>For 480 Volt, Add</i>	72.97	
			<i>For Multi-Level, Add</i>	105.39	
			<i>For 1,000mA Driver, Add</i>	136.21	
26 56 23 00-0151	EA		240 LEDs, 533 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO).....	3,061.99	144.31
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For 5,000K Color Temperature, Add</i>	40.54	
			<i>For Fuse, Add</i>	48.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	48.64	
			<i>For Bird Spikes, Add</i>	55.30	
			<i>For Multi-Level, Add</i>	105.39	
			<i>For 1,000mA Driver, Add</i>	136.20	
			<i>For 480 Volt, Add</i>	145.92	
26 56 23 00-0152			Wall Mount, LED Area Fixtures <small>(26 56 23 00-0134)</small>		
26 56 23 00-0153			Wall Mount, LED Architectural Area Fixtures (Lithonia DSXW) <small>(26 56 23 00-0152)</small>		
			Note: UL wet listed. Includes 4,000K color temperature, 277 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0154	EA		20 LEDs, 47 System Watts, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED).....	1,008.31	90.86
26 56 23 00-0155	EA		30 LEDs, 71 System Watts, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED).....	1,029.68	101.55
26 56 23 00-0156			Surface Mount, LED Parking Structure Fixtures <small>(26 56 23 00-0134)</small>		
26 56 23 00-0157			Surface Mount, Rectangular, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-EDG) <small>(26 56 23 00-0156)</small>		
			Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0158	EA		40 LEDs, 47 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	912.80	96.21
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0159	EA		60 LEDs, 68 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,125.57	101.55
			<i>For Multi-Level Drive Currents, Add</i>	192.47	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0160	EA		80 LEDs, 90 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,338.35	106.90
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0161	EA		100 LEDs, 111 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,551.13	112.24
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0162			Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-304) <small>(26 56 23 00-0156)</small>		
			Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0163	EA		40 LEDs, 47 System Watts, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	879.80	96.21
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0164	EA		60 LEDs, 68 System Watts, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	971.59	101.55
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0165			Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VG) <small>(26 56 23 00-0156)</small>		
			Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0166	EA		3,700 Lumens, 50 System Watts, Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VGADM5MA40KUL).....	610.45	96.21
26 56 23 00-0167			Surface Mount, Rectangular, LED Parking Structure Fixtures (Philips Gardco ELG) <small>(26 56 23 00-0156)</small>		
			Note: Direct or pendant mount. UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and aluminum finish. Excludes sensors.		
26 56 23 00-0168	EA		70 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	1,160.83	101.55
26 56 23 00-0169	EA		110 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	1,182.21	112.24
26 56 23 00-0170			Surface Mount, LED Canopy Fixtures <small>(26 56 23 00-0134)</small>		
26 56 23 00-0171			Surface Mount, Rectangular, LED Canopy Fixtures (CREE® BetaLED® Edge® CAN-EDG) <small>(26 56 23 00-0170)</small>		
			Note: Direct or pendant mount. UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0172	EA		40 LEDs, 47 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,058.52	96.21
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0173	EA		60 LEDs, 68 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,271.29	101.55
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0174	EA		80 LEDs, 90 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,484.07	106.90
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0175	EA		100 LEDs, 111 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,696.85	112.24
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0176	EA		120 LEDs, 132 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,909.63	117.59
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0177	EA		140 LEDs, 157 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,203.53	122.93
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0178	EA		160 LEDs, 179 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,416.31	128.27
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0179	EA		200 LEDs, 221 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,841.88	138.96
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0180	EA		240 LEDs, 264 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,256.74	144.31
			<i>For Multi-Level Drive Currents, Add</i>	192.47	
26 56 23 00-0181			Surface Mount, Square, LED Canopy/Soffit Fixtures (CREE® BetaLED® CPY250) <small>(26 56 23 00-0170)</small>		
			Note: UL wet listed. Includes 5,700K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0182	EA		8,000 Lumens, 82 System Watts, Surface Mount, Square, LED Canopy/Soffit Fixture (CREE® BetaLED® CPY250).....	732.08	106.90
26 56 23 00-0183			Recessed Mount, LED Soffit Fixtures <small>(26 56 23 00-0134)</small>		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0184 Recessed Mount, Square, LED Soffit Fixtures (CREE® BetaLED® SFT-304) <small>(26 56 23 00-0183)</small> Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0185 EA 40 LEDs, 47 System Watts, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	896.30	96.21
26 56 23 00-0186 EA 60 LEDs, 68 System Watts, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	988.09	101.55
26 56 23 00-0187 Surface Mount, LED Area Fixtures <small>(26 56 23 00-0134)</small>		
26 56 23 00-0188 Surface Mount, Square, LED Multi-Purpose Area Fixtures (LSI Industries® Crossover® XPG) <small>(26 56 23 00-0187)</small> Note: UL wet listed. Includes 5,300K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black or silver powder coat finish. Excludes sensors.		
26 56 23 00-0189 EA 50 LEDs, 59 System Watts, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	755.68	96.21
26 56 23 00-0190 EA 50 LEDs, 59 System Watts, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	858.72	96.21
26 56 23 00-0191 EA 68 LEDs, 79 System Watts, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	729.36	106.90
26 56 23 00-0192 EA 68 LEDs, 79 System Watts, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	888.46	106.90
26 56 23 00-0193 Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour®) <small>(26 56 23 00-0187)</small> Note: Wall, inverted, post, bollard, floodlight trunnion, or floodlight knuckle mount. UL wet listed. Includes 5,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0194 EA 13 System Watts, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR1A).....	247.89	34.74
For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
26 56 23 00-0195 EA 20 System Watts, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR2A).....	288.19	34.74
For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
26 56 23 00-0196 EA 30 System Watts, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR3A).....	364.95	34.74
For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
26 56 23 00-0197 Surface Mount, LED Facade Fixtures <small>(26 56 23 00-0134)</small>		
26 56 23 00-0198 Surface Mount, LED Facade Fixtures (lumenpulse™ lumenfacade™) <small>(26 56 23 00-0197)</small>		
26 56 23 00-0199 EA 12" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	437.25	40.58
26 56 23 00-0200 EA 24" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	699.23	37.05
26 56 23 00-0201 EA 36" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	886.46	30.88
26 56 23 00-0202 EA 48" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,073.69	24.70
26 56 23 00-0203 Post Top, LED Area Fixtures <small>(26 56 23 00-0134)</small>		
26 56 23 00-0204 Post Top, LED Area Fixtures (Cooper Lighting Invue® MSA) <small>(26 56 23 00-0203)</small> Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 350mA remote driver, die-cast extruded aluminum housing assembly and white, black, grey, dark platinum, graphite metallic or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0205 EA 1,800 Lumens, 27 System Watts, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO1).....	1,257.60	146.98
26 56 23 00-0206 EA 3,400 Lumens, 54 System Watts, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO2).....	1,380.55	146.98
26 56 23 00-0207 EA 77 System Watts, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO3).....	1,477.74	146.98
26 56 23 00-0208 Post Top, LED Area Fixtures (General Electric EPAS) <small>(26 56 23 00-0203)</small> Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, green or bronze powder coat finish. Includes photocontrol sensor.		
26 56 23 00-0209 EA 3,200 Lumens, 45 System Watts, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 E5/E3).....	1,469.87	146.98
For >25 To 500, Deduct	-82.31	
For >500, Deduct	-270.46	
26 56 23 00-0210 EA 6,515 Lumens, 80 System Watts, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 C5/C3).....	1,501.50	146.98
For >25 To 500, Deduct	-84.53	
For >500, Deduct	-277.73	
26 56 23 00-0211 Post Top, LED Area Fixtures (General Electric EPTC) <small>(26 56 23 00-0203)</small> Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, gray or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 23 00-0212 EA 3,200 Lumens, 45 System Watts, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 E5/E3).....	1,041.65	146.98
For >25 To 500, Deduct	-52.34	
For >500, Deduct	-216.83	
26 56 23 00-0213 EA 6,150 Lumens, 80 System Watts, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 C5/C3).....	1,088.99	146.98
For >25 To 500, Deduct	-55.65	
For >500, Deduct	-206.71	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0214			Post Top, LED Area Fixtures (General Electric EPST) <small>(26 56 23 00-0203)</small> Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 23 00-0215	EA		3,135 Lumens, 45 System Watts, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 E5/E3).....	826.49	146.98
			<i>For >25 To 500, Deduct</i>	-37.28	
			<i>For >500, Deduct</i>	-111.83	
26 56 23 00-0216	EA		6,115 Lumens, 80 System Watts, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 C5/C3).....	873.83	146.98
			<i>For >25 To 500, Deduct</i>	-40.59	
			<i>For >500, Deduct</i>	-121.77	
26 56 23 00-0217			Post Top, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDR) <small>(26 56 23 00-0203)</small> Note: UL wet listed. Includes 4,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type V Medium optic. Excludes sensors.		
26 56 23 00-0218	EA		13,800 Lumens, 130 System Watts, Post Top Mount, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDR)	2,389.11	146.98
26 56 23 00-0219			LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAAH53) <small>(26 56 23 00-0203)</small> Note: Includes 4,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0365 for disposal of hazardous lamps.		
26 56 23 00-0220	EA		LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAAH53).....	662.59	80.17
			<i>For 0 To 10 Volt Dimming, Add</i>	48.64	
26 56 23 00-0221			LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) <small>(26 56 23 00-0203)</small> Note: Includes 3,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0365 for disposal of hazardous lamps.		
26 56 23 00-0222	EA		LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT)	415.72	17.11
			<i>For Backlight Control Shield, Add</i>	32.36	
26 56 23 00-0223			Surface Mount, LED Strip Fixtures (Sylvania) <small>(26 56 23 00-0134)</small>		
26 56 23 00-0224	EA		4' Long, 5,200 Lumens, 40 Watts, Vapor Tight Dimmable LED Fixture (Sylvania VAPOR1B/040UNVD840/48EC/GR/D).....	195.68	32.29
26 56 23 00-0225			Induction Area Fixtures <small>(26 56 23)</small>		
26 56 23 00-0226			Post Top, Induction Area Fixtures <small>(26 56 23 00-0225)</small>		
26 56 23 00-0227			Post Top, Induction Area Fixtures (US Lighting Tech) <small>(26 56 23 00-0226)</small> Note: Includes black powder coat finish heavy duty die cast aluminum body and no-lite lid acrylic lens.		
26 56 23 00-0228	EA		40 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	790.26	146.98
26 56 23 00-0229	EA		70 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	870.00	146.98
26 56 23 00-0230	EA		100 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	870.00	146.98
26 56 23 00-0231	EA		150 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	870.00	146.98
26 56 23 00-0232			Surface Mount, Induction Parking Structure Fixtures <small>(26 56 23 00-0225)</small>		
26 56 23 00-0233			Surface Mount, Induction Parking Structure Fixtures (Everlast®) <small>(26 56 23 00-0232)</small>		
26 56 23 00-0234	EA		40 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	697.62	133.62
26 56 23 00-0235	EA		55 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	749.70	136.29
26 56 23 00-0236	EA		70 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	760.55	138.96
26 56 23 00-0237	EA		80 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	771.39	141.63
26 56 23 00-0238	EA		100 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	782.23	144.31
26 56 23 00-0239	EA		120 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	798.58	146.98
26 56 23 00-0240	EA		70/28 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	840.29	138.96
26 56 23 00-0241	EA		80/32 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	851.13	141.63
26 56 23 00-0242	EA		100/40 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	861.97	144.31
26 56 23 00-0243	EA		120/48 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	901.68	146.98
26 56 23 00-0244			Pole Mount, Induction Area Fixtures <small>(26 56 23 00-0225)</small>		
26 56 23 00-0245			Pole Mount, Bi-Level Induction Area Fixtures (Everlast® ESB-ED) <small>(26 56 23 00-0244)</small> Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 23 00-0246	EA		70 Watts, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-70)	749.90	90.86
26 56 23 00-0247	EA		80 Watts, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-80)	772.59	96.21
26 56 23 00-0248	EA		100 Watts, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-100)	795.26	101.55



Electrical	26	
Lighting	26 50	26
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0249 Metal Halide Area Fixtures <small>(26 56 23)</small>		
26 56 23 00-0250 Pole Mount, Metal Halide Area Fixtures <small>(26 56 23 00-0249)</small>		
Note: Includes pulse start ballast.		
26 56 23 00-0251 EA 150 Watt, Metal Halide Area Fixture, Pole Mount.....	712.26	133.26
26 56 23 00-0252 EA 175 Watt, Metal Halide Area Fixture, Pole Mount.....	781.82	146.59
26 56 23 00-0253 EA 250 Watt, Metal Halide Area Fixture, Pole Mount.....	863.49	159.92
26 56 23 00-0254 EA 400 Watt, Metal Halide Area Fixture, Pole Mount.....	922.24	186.57
26 56 23 00-0255 High Pressure Sodium Area Fixtures <small>(26 56 23)</small>		
26 56 23 00-0256 Pole Mount, High Pressure Sodium Area Fixtures <small>(26 56 23 00-0255)</small>		
26 56 23 00-0257 EA 100 Watt, High Pressure Sodium Area Fixture, Pole Mount.....	589.62	106.61
26 56 23 00-0258 EA 150 Watt, High Pressure Sodium Area Fixture, Pole Mount.....	650.60	133.26
26 56 23 00-0259 EA 250 Watt, High Pressure Sodium Area Fixture, Pole Mount.....	713.64	159.92
26 56 23 00-0260 EA 400 Watt, High Pressure Sodium Area Fixture, Pole Mount.....	761.65	186.57
26 56 23 00-0261 Area Lighting Accessories <small>(26 56 23)</small>		
26 56 23 00-0262 Outdoor Motion Sensors <small>(26 56 23 00-0261)</small>		
26 56 23 00-0263 EA 70' Range, 180 Degree Detection Zone, 8 Amp Switching Capacity, Polycarbonate Housing, Outdoor Motion Sensor (Lithonia OMS 1000).....	85.38	24.16
26 56 23 00-0264 EA 70' Range, 200 Degree Detection Zone, 10 Amp Switching Capacity, Cast Aluminum Housing, Outdoor Motion Sensor (Lithonia OMS 2000).....	92.09	24.16
26 56 23 00-0265 EA 30' Range, 360 Degree Detection Zone, Line Voltage, Plastic Housing, IP66 Rated, Outdoor Motion Sensor With Photocell (SensorSwitch SBOR).....	341.55	24.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		14.50
26 56 26 Landscape Lighting <small>(26 56)</small>		
26 56 26 00-0001 Bollards <small>(26 56 26)</small>		
Note: Excludes concrete base.		
26 56 26 00-0002 Aluminum Architectural Bollards <small>(26 56 26 00-0001)</small>		
26 56 26 00-0003 High Pressure Sodium, Aluminum Architectural Bollards <small>(26 56 26 00-0002)</small>		
26 56 26 00-0004 Square, High Pressure Sodium, Aluminum Architectural Bollards <small>(26 56 26 00-0003)</small>		
26 56 26 00-0005 EA 24" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	923.96	82.03
26 56 26 00-0006 EA 30" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	933.60	86.85
26 56 26 00-0007 EA 36" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	943.25	91.68
26 56 26 00-0008 EA 42" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	879.52	96.51
26 56 26 00-0009 EA 24" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	923.96	82.03
26 56 26 00-0010 EA 30" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	933.60	86.85
26 56 26 00-0011 EA 36" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	943.25	91.68
26 56 26 00-0012 EA 42" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	879.52	96.51
26 56 26 00-0013 EA 24" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	923.96	82.03
26 56 26 00-0014 EA 30" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	933.60	86.85
26 56 26 00-0015 EA 36" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	943.25	91.68
26 56 26 00-0016 EA 42" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	879.52	96.51
26 56 26 00-0017 EA 24" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	923.96	82.03
26 56 26 00-0018 EA 30" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	933.60	86.85
26 56 26 00-0019 EA 36" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	943.25	91.68
26 56 26 00-0020 EA 42" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	879.52	96.51
26 56 26 00-0021 Round, High Pressure Sodium, Aluminum Architectural Bollards <small>(26 56 26 00-0003)</small>		
26 56 26 00-0022 EA 24" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	890.27	82.03
26 56 26 00-0023 EA 30" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	899.91	86.85
26 56 26 00-0024 EA 36" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	909.56	91.68
26 56 26 00-0025 EA 42" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	845.52	96.51
26 56 26 00-0026 EA 24" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	890.27	82.03
26 56 26 00-0027 EA 30" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	899.91	86.85
26 56 26 00-0028 EA 36" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	909.56	91.68
26 56 26 00-0029 EA 42" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	845.52	96.51
26 56 26 00-0030 EA 24" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	890.27	82.03
26 56 26 00-0031 EA 30" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	899.91	86.85
26 56 26 00-0032 EA 36" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	909.56	91.68
26 56 26 00-0033 EA 42" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	845.52	96.51
26 56 26 00-0034 EA 24" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	890.27	82.03
26 56 26 00-0035 EA 30" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	899.91	86.85
26 56 26 00-0036 EA 36" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	909.56	91.68
26 56 26 00-0037 EA 42" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	845.52	96.51
26 56 26 00-0038 Metal Halide, Aluminum Architectural Bollards <small>(26 56 26 00-0002)</small>		
26 56 26 00-0039 Square, Metal Halide, Aluminum Architectural Bollards <small>(26 56 26 00-0038)</small>		
26 56 26 00-0040 EA 24" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	967.72	82.03
26 56 26 00-0041 EA 30" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	977.36	86.85



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 26 00-0042 EA 36" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	987.01	91.68
26 56 26 00-0043 EA 42" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	922.97	96.51
26 56 26 00-0044 EA 24" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	967.72	82.03
26 56 26 00-0045 EA 30" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	977.36	86.85
26 56 26 00-0046 EA 36" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	987.01	91.68
26 56 26 00-0047 EA 42" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	922.97	96.51
26 56 26 00-0048 EA 24" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	967.72	82.03
26 56 26 00-0049 EA 30" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	977.36	86.85
26 56 26 00-0050 EA 36" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	987.01	91.68
26 56 26 00-0051 EA 42" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	959.58	96.51
26 56 26 00-0052 Round, Metal Halide, Aluminum Architectural Bollards (26 56 26 00-0038)		
26 56 26 00-0053 EA 24" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	933.71	82.03
26 56 26 00-0054 EA 30" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	943.35	86.85
26 56 26 00-0055 EA 36" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	953.00	91.68
26 56 26 00-0056 EA 42" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	888.96	96.51
26 56 26 00-0057 EA 24" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	933.71	82.03
26 56 26 00-0058 EA 30" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	943.35	86.85
26 56 26 00-0059 EA 36" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	953.00	91.68
26 56 26 00-0060 EA 42" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	888.96	96.51
26 56 26 00-0061 EA 24" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	933.71	82.03
26 56 26 00-0062 EA 30" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	943.35	86.85
26 56 26 00-0063 EA 36" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	953.00	91.68
26 56 26 00-0064 EA 42" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	888.96	96.51
26 56 26 00-0065 Compact Fluorescent, Aluminum Architectural Bollards (26 56 26 00-0002)		
26 56 26 00-0066 Square, Compact Fluorescent, Aluminum Architectural Bollards (26 56 26 00-0065)		
26 56 26 00-0067 EA 24" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	920.13	82.03
26 56 26 00-0068 EA 30" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	929.77	86.85
26 56 26 00-0069 EA 36" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	939.42	91.68
26 56 26 00-0070 EA 42" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	876.38	96.51
26 56 26 00-0071 EA 24" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	920.13	82.03
26 56 26 00-0072 EA 30" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	929.77	86.85
26 56 26 00-0073 EA 36" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	939.42	91.68
26 56 26 00-0074 EA 42" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	876.38	96.51
26 56 26 00-0075 EA 24" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	920.13	82.03
26 56 26 00-0076 EA 30" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	929.77	86.85
26 56 26 00-0077 EA 36" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	939.42	91.68
26 56 26 00-0078 EA 42" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	876.38	96.51
26 56 26 00-0079 Round, Compact Fluorescent, Aluminum Architectural Bollards (26 56 26 00-0065)		
26 56 26 00-0080 EA 24" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	886.86	82.03
26 56 26 00-0081 EA 30" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	896.50	86.85
26 56 26 00-0082 EA 36" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	906.15	91.68
26 56 26 00-0083 EA 42" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	843.75	96.51
26 56 26 00-0084 EA 24" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	886.86	82.03
26 56 26 00-0085 EA 30" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	896.50	86.85
26 56 26 00-0086 EA 36" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	906.15	91.68
26 56 26 00-0087 EA 42" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	843.75	96.51
26 56 26 00-0088 EA 24" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	886.86	82.03
26 56 26 00-0089 EA 30" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	896.50	86.85
26 56 26 00-0090 EA 36" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	906.15	91.68
26 56 26 00-0091 EA 42" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	843.75	96.51
26 56 26 00-0092 LED, Aluminum Architectural Bollards (26 56 26 00-0002)		
26 56 26 00-0093 Square, LED, Aluminum Architectural Bollards (26 56 26 00-0092)		
26 56 26 00-0094 EA 24" Overall Height, 6-3/4" Square, 12 LEDs, LED, Aluminum Architectural Bollard.....	1,092.83	82.03
26 56 26 00-0095 EA 30" Overall Height, 6-3/4" Square, 12 LEDs, LED, Aluminum Architectural Bollard.....	1,102.47	86.85
26 56 26 00-0096 EA 36" Overall Height, 6-3/4" Square, 12 LEDs, LED, Aluminum Architectural Bollard.....	1,112.12	91.68
26 56 26 00-0097 EA 42" Overall Height, 6-3/4" Square, 12 LEDs, LED, Aluminum Architectural Bollard.....	1,050.00	96.51
26 56 26 00-0098 EA 24" Overall Height, 6-3/4" Square, 24 LEDs, LED, Aluminum Architectural Bollard.....	1,324.39	82.03
26 56 26 00-0099 EA 30" Overall Height, 6-3/4" Square, 24 LEDs, LED, Aluminum Architectural Bollard.....	1,334.03	86.85
26 56 26 00-0100 EA 36" Overall Height, 6-3/4" Square, 24 LEDs, LED, Aluminum Architectural Bollard.....	1,343.68	91.68
26 56 26 00-0101 EA 42" Overall Height, 6-3/4" Square, 24 LEDs, LED, Aluminum Architectural Bollard.....	1,280.40	96.51
26 56 26 00-0102 Round, LED, Aluminum Architectural Bollards (26 56 26 00-0092)		
26 56 26 00-0103 EA 24" Overall Height, 7" Diameter, 12 LEDs, LED, Aluminum Architectural Bollard.....	1,058.29	82.03
26 56 26 00-0104 EA 30" Overall Height, 7" Diameter, 12 LEDs, LED, Aluminum Architectural Bollard.....	1,067.93	86.85
26 56 26 00-0105 EA 36" Overall Height, 7" Diameter, 12 LEDs, LED, Aluminum Architectural Bollard.....	1,077.58	91.68
26 56 26 00-0106 EA 42" Overall Height, 7" Diameter, 12 LEDs, LED, Aluminum Architectural Bollard.....	1,014.31	96.51
26 56 26 00-0107 EA 24" Overall Height, 7" Diameter, 24 LEDs, LED, Aluminum Architectural Bollard.....	1,289.84	82.03
26 56 26 00-0108 EA 30" Overall Height, 7" Diameter, 24 LEDs, LED, Aluminum Architectural Bollard.....	1,299.48	86.85
26 56 26 00-0109 EA 36" Overall Height, 7" Diameter, 24 LEDs, LED, Aluminum Architectural Bollard.....	1,309.13	91.68
26 56 26 00-0110 EA 42" Overall Height, 7" Diameter, 24 LEDs, LED, Aluminum Architectural Bollard.....	1,246.27	96.51



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 26 00-0111 Reinforced Concrete Bollards <small>(26 56 26 00-0001)</small>		
26 56 26 00-0112 EA 48" Overall Height, 12" Diameter, LED Light, Reinforced Concrete Bollard.....	1,003.85	241.25
26 56 26 00-0113 EA 58" Overall Height, 18" Diameter, High Intensity Discharge (HID) Light, Reinforced Concrete Bollard.....	1,708.08	321.64
26 56 26 00-0114 Low Voltage <small>(26 56 26)</small>		
26 56 26 00-0115 EA Low Voltage Recessed Uplight.....	574.33	175.64
26 56 26 00-0116 EA Low Voltage Walkway.....	394.11	96.51
26 56 26 00-0117 EA Low Voltage Malibu - 5 Light Set.....	403.93	128.83
26 56 26 00-0118 EA Low Voltage Mushroom 24" Pier.....	342.92	96.51
26 56 26 00-0119 Recessed, Adjustable <small>(26 56 26)</small>		
26 56 26 00-0120 EA 150 Watt Incandescent Recessed, Adjustable.....	648.84	154.41
26 56 26 00-0121 EA 300 Watt Incandescent Recessed, Adjustable.....	703.69	154.41
26 56 26 00-0122 Recessed, Uplight <small>(26 56 26)</small>		
26 56 26 00-0123 EA 50 Watt Incandescent Recessed Uplight.....	586.68	154.41
26 56 26 00-0124 EA 150 Watt Incandescent Recessed Uplight.....	597.65	154.41
26 56 26 00-0125 EA 300 Watt Incandescent Recessed Uplight.....	630.55	154.41
26 56 26 00-0126 EA 500 Watt Quartz Recessed Uplight.....	626.90	154.41
26 56 26 00-0127 EA 5 Watt LED Recessed Uplight.....	731.40	154.41
26 56 26 00-0128 EA 15 Watt LED Recessed Uplight.....	795.90	154.41
26 56 26 00-0129 Recessed Wall Light <small>(26 56 26)</small>		
26 56 26 00-0130 EA 100 Watt Incandescent Recessed Wall Light.....	310.01	96.51
26 56 26 00-0131 EA 100 Watt Fluorescent Recessed Wall Light.....	299.04	96.51
26 56 26 00-0132 EA 100 Watt High Intensity Discharge (HID) Recessed Wall Light.....	473.41	128.83
26 56 26 00-0133 Step Lights <small>(26 56 26)</small>		
26 56 26 00-0134 EA Incandescent Step Light.....	253.09	77.20
26 56 26 00-0135 EA Fluorescent Step Light.....	289.70	77.20
26 56 26 00-0136 EA 5 Watt LED Step Light.....	397.35	77.20
26 56 26 00-0137 EA 15 Watt LED Step Light.....	466.15	77.20
26 56 26 00-0138 Tree Lights, Surface Adjustable <small>(26 56 26)</small>		
26 56 26 00-0139 EA 50 Watt Incandescent Tree Lights.....	520.94	128.83
26 56 26 00-0140 EA 100 Watt Incandescent Tree Lights.....	531.91	128.83
26 56 26 00-0141 EA 150 Watt Incandescent Tree Lights.....	678.52	193.00
26 56 26 00-0142 Underwater Lights <small>(26 56 26)</small>		
26 56 26 00-0143 EA 150 Watt, 120 Volt Underwater Lights.....	409.91	64.17
26 56 26 00-0144 EA 300 Watt, 120 Volt Underwater Lights.....	453.79	64.17
26 56 26 00-0145 EA 1,000 Watt, 120 Volt Underwater Lights.....	1,088.85	96.51
26 56 26 00-0146 EA 50 Watt, 12 Volt Underwater Lights.....	428.20	64.17
26 56 26 00-0147 EA 300 Watt, 12 Volt Underwater Lights.....	479.39	64.17
26 56 26 00-0148 EA Under Water Fountain Fixture, Set Of 6, 300 Watt, Incandescent.....	1,221.69	144.75
26 56 33 Walkway Lighting <small>(26 56)</small>		
26 56 33 00-0001 Incandescent Walkway <small>(26 56 33)</small>		
26 56 33 00-0002 EA Post Top 300 Watt Incandescent Walkway Fixture.....	443.20	89.74
26 56 33 00-0003 Metal Halide Walkway <small>(26 56 33)</small>		
26 56 33 00-0004 EA Post Top 100 Watt Metal Halide Walkway Fixture.....	678.52	141.08
26 56 33 00-0005 EA Post Top 150-175 Watt Metal Halide Walkway Fixture.....	723.27	146.20
26 56 33 00-0006 EA Post Top 250 Watt Metal Halide Walkway Fixture.....	788.72	151.80
26 56 33 00-0007 EA Post Top 400 Watt Metal Halide Walkway Fixture.....	842.24	164.06
26 56 33 00-0008 EA Round Luminaries 100 Watt Metal Halide Walkway Fixture.....	742.51	151.80
26 56 33 00-0009 EA Round Luminaries 150-175 Watt Metal Halide Walkway Fixture.....	767.43	141.08
26 56 33 00-0010 EA Round Luminaries 250 Watt Metal Halide Walkway Fixture.....	778.75	146.20
26 56 33 00-0011 EA Spherical 100 Watt Metal Halide Walkway Fixture.....	640.10	100.55
26 56 33 00-0012 EA Spherical 150-175 Watt Metal Halide Walkway Fixture.....	686.32	100.55
26 56 33 00-0013 EA Spherical 250 Watt Metal Halide Walkway Fixture.....	732.53	100.55
26 56 33 00-0014 EA Spherical 400 Watt Metal Halide Walkway Fixture.....	827.34	113.20
26 56 33 00-0015 EA Low Walkway 100 Watt Metal Halide Walkway Fixture.....	619.77	90.32
26 56 33 00-0016 High Pressure Sodium Walkway <small>(26 56 33)</small>		
26 56 33 00-0017 EA Post Top 100 Watt High Pressure Sodium Walkway Fixture.....	591.82	141.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 33 00-0018 EA Post Top 150-175 Watt High Pressure Sodium Walkway Fixture	629.02	146.20
26 56 33 00-0019 EA Post Top 250 Watt High Pressure Sodium Walkway Fixture	682.57	151.80
26 56 33 00-0020 EA Post Top 400 Watt High Pressure Sodium Walkway Fixture	729.80	164.06
26 56 33 00-0021 EA Round Luminaries 100 Watt High Pressure Sodium Walkway Fixture.....	646.47	151.80
26 56 33 00-0022 EA Round Luminaries 150-175 Watt High Pressure Sodium Walkway Fixture	661.28	141.08
26 56 33 00-0023 EA Round Luminaries 250 Watt High Pressure Sodium Walkway Fixture.....	672.37	146.20
26 56 33 00-0024 EA Spherical 100 Watt High Pressure Sodium Walkway Fixture.....	544.06	100.55
26 56 33 00-0025 EA Spherical 175 150-Watt High Pressure Sodium Walkway Fixture.....	580.17	100.55
26 56 33 00-0026 EA Spherical 250 Watt High Pressure Sodium Walkway Fixture.....	616.27	100.55
26 56 33 00-0027 EA Spherical 400 Watt High Pressure Sodium Walkway Fixture.....	695.91	113.20
26 56 33 00-0028 EA Low Walkway 100 Watt High Pressure Sodium Walkway Fixture.....	352.09	90.32
26 56 33 00-0029 Walkway, Adjustable (26 56 33)		
26 56 33 00-0030 EA 2' Fluorescent Adjustable Walkway Fixture.....	645.30	128.83
26 56 33 00-0031 EA 4' Fluorescent Adjustable Walkway Fixture.....	668.11	128.83
26 56 33 00-0032 EA 8' Fluorescent Adjustable Walkway Fixture.....	1,191.67	193.00
26 56 33 00-0033 EA 50 Watt Incandescent Adjustable Walkway Fixture	557.83	96.51
26 56 33 00-0034 EA 150 Watt Incandescent Adjustable Walkway Fixture	588.23	96.51
26 56 33 00-0035 LED Walkway (26 56 33)		
26 56 33 00-0036 LED Pathway Fixtures (CREE® BetaLED® Edge® PWY-EDG) (26 56 33 00-0035)		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 33 00-0037 EA 13" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	731.16	74.10
<i>For Multi-Level Drive Currents, Add</i>		
	192.47	
26 56 33 00-0038 EA 18" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	754.53	74.10
<i>For Multi-Level Drive Currents, Add</i>		
	192.47	
26 56 33 00-0039 EA 36" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	795.77	74.10
<i>For Multi-Level Drive Currents, Add</i>		
	192.47	
26 56 33 00-0040 EA 42" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	827.39	74.10
<i>For Multi-Level Drive Currents, Add</i>		
	192.47	
26 56 33 00-0041 EA 96" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	952.04	95.28
<i>For Multi-Level Drive Currents, Add</i>		
	192.47	
26 56 33 00-0042 Wall Mounted Walkway Lighting (26 56 33 00-0035)		
26 56 33 00-0043 EA Wall Mounted Lantern With LED Kit, No. PDEX-Bracket (Herwig P-492).....	2,548.76	
Note: Type Fixture 17 as Post		
26 56 33 00-0044 Pole Mounted Walkway Lighting (26 56 33 00-0035)		
26 56 33 00-0045 EA 43-1/2" Height x 19" Diameter, LED Post Lantern (Herwig AP-27).....	2,367.27	
26 56 33 00-0046 EA 12' Tapered and Fluted Post (Herwig BRA Series, BRAJ-12).....	2,325.76	
Note: Washers and nuts included		
26 56 36 Flood Lighting (26 56)		
26 56 36 00-0001 General Electric Powerflood® Flood Lights (26 56 36)		
26 56 36 00-0002 MPF (Small Size) Series GE Flood Lights (26 56 36 00-0001)		
Note: For perimeters, entrances, building facades and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. 1/2" threaded mounting knuckle.		
26 56 36 00-0003 High Pressure Sodium MPF Series GE Flood Lights (26 56 36 00-0002)		
26 56 36 00-0004 EA 70 Watt High Pressure Sodium MPF Series GE Flood Light	255.41	79.95
26 56 36 00-0005 EA 100 Watt High Pressure Sodium MPF Series GE Flood Light	257.32	79.95
26 56 36 00-0006 EA 150 Watt High Pressure Sodium MPF Series GE Flood Light	260.50	79.95
26 56 36 00-0007 Metal Halide MPF Series GE Flood Lights (26 56 36 00-0002)		
26 56 36 00-0008 EA 70 Watt Metal Halide MPF Series GE Flood Light.....	331.17	79.95
26 56 36 00-0009 P-154 (Small Size) Series GE Flood Lights (26 56 36 00-0001)		
Note: For parking lots, building security, building facades, recreation areas and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0010 High Pressure Sodium P-154 Series GE Flood Lights (26 56 36 00-0009)		
26 56 36 00-0011 EA 70 Watt High Pressure Sodium P-154 Series GE Flood Light	487.59	106.61
26 56 36 00-0012 EA 100 Watt High Pressure Sodium P-154 Series GE Flood Light	490.14	106.61
26 56 36 00-0013 EA 150 Watt High Pressure Sodium P-154 Series GE Flood Light	494.60	106.61
26 56 36 00-0014 EA 250 Watt High Pressure Sodium P-154 Series GE Flood Light	544.89	106.61
26 56 36 00-0015 EA 400 Watt High Pressure Sodium P-154 Series GE Flood Light	559.53	106.61
26 56 36 00-0016 Metal Halide P-154 Series GE Flood Lights (26 56 36 00-0009)		
26 56 36 00-0017 EA 175 Watt Metal Halide P-154 Series GE Flood Light	483.14	106.61



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0018 EA 250 Watt Metal Halide P-154 Series GE Flood Light.....	505.42	106.61
26 56 36 00-0019 EA 400 Watt Metal Halide P-154 Series GE Flood Light.....	516.88	106.61
26 56 36 00-0020 PF-154 (Medium Size) Series GE Flood Lights <small>(26 56 36 00-0001)</small> Note: For parking lots, building security and building facades. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0021 High Pressure Sodium PF-154 Series GE Flood Lights <small>(26 56 36 00-0020)</small>		
26 56 36 00-0022 EA 70 Watt High Pressure Sodium PF-154 Series GE Flood Light.....	503.42	119.94
26 56 36 00-0023 EA 100 Watt High Pressure Sodium PF-154 Series GE Flood Light.....	506.61	119.94
26 56 36 00-0024 EA 150 Watt High Pressure Sodium PF-154 Series GE Flood Light.....	511.70	119.94
26 56 36 00-0025 EA 250 Watt High Pressure Sodium PF-154 Series GE Flood Light.....	561.35	119.94
26 56 36 00-0026 EA 400 Watt High Pressure Sodium PF-154 Series GE Flood Light.....	575.36	119.94
26 56 36 00-0027 Metal Halide PF-154 GE Flood Lights <small>(26 56 36 00-0020)</small>		
26 56 36 00-0028 EA 175 Watt Metal Halide PF-154 Series GE Flood Light.....	499.60	119.94
26 56 36 00-0029 EA 250 Watt Metal Halide PF-154 Series GE Flood Light.....	521.25	119.94
26 56 36 00-0030 EA 400 Watt Metal Halide PF-154 Series GE Flood Light.....	532.71	119.94
26 56 36 00-0031 PF-400 (Medium Size) Series GE Flood Lights <small>(26 56 36 00-0001)</small> Note: For parking lots, building security, building facades, shipping yards and rail yards. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0032 High Pressure Sodium PF-400 Series GE Flood Lights <small>(26 56 36 00-0031)</small>		
26 56 36 00-0033 EA 150 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	653.66	119.94
26 56 36 00-0034 EA 200 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	698.22	119.94
26 56 36 00-0035 EA 250 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	695.04	119.94
26 56 36 00-0036 EA 400 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	710.95	119.94
26 56 36 00-0037 Metal Halide PF-400 GE Flood Lights <small>(26 56 36 00-0031)</small>		
26 56 36 00-0038 EA 175 Watt Metal Halide PF-400 Series GE Flood Light.....	670.21	119.94
26 56 36 00-0039 EA 250 Watt Metal Halide PF-400 Series GE Flood Light.....	683.58	119.94
26 56 36 00-0040 EA 400 Watt Metal Halide PF-400 Series GE Flood Light.....	697.59	119.94
26 56 36 00-0041 PF-1000 (Large Size) Series GE Flood Lights <small>(26 56 36 00-0001)</small> Note: For parking lots, industrial yards and sports stadiums. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0042 High Pressure Sodium PF-154 Series GE Flood Lights <small>(26 56 36 00-0041)</small>		
26 56 36 00-0043 EA 750 Watt High Pressure Sodium PF-1000 Series GE Flood Light.....	870.66	133.26
26 56 36 00-0044 EA 1,000 Watt High Pressure Sodium PF-1000 Series GE Flood Light.....	870.66	133.26
26 56 36 00-0045 Metal Halide PF-1000 Series GE Flood Lights <small>(26 56 36 00-0041)</small>		
26 56 36 00-0046 EA 1,000 Watt Metal Halide PF-1000 Series GE Flood Light.....	833.74	133.26
26 56 36 00-0047 HLU/VLU (Medium Size) FRP Series GE Flood Lights <small>(26 56 36 00-0001)</small> Note: For parking lots, industrial yards, construction sites, recreation areas and facades. Includes corrosion resistant reinforced polyester housing and thermal shock resistant lens. Hydroformed aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0048 High Pressure Sodium HLU/VLU FRP Series GE Flood Lights <small>(26 56 36 00-0047)</small>		
26 56 36 00-0049 EA 250 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light.....	714.77	119.94
26 56 36 00-0050 EA 400 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light.....	726.87	119.94
26 56 36 00-0051 Metal Halide HLU/VLU Series GE Flood Lights <small>(26 56 36 00-0047)</small>		
26 56 36 00-0052 EA 400 Watt Metal Halide HLU/VLU FRP Series GE Flood Light.....	721.78	119.94
26 56 36 00-0053 Accessories For Powerflood GE Flood Lights <small>(26 56 36 00-0001)</small>		
26 56 36 00-0054 EA Wireguard For Powerflood GE Flood Light.....	126.52	26.65
26 56 36 00-0055 EA Polycarbonate Vandal Shield For Powerflood GE Flood Light.....	79.41	26.65
26 56 36 00-0056 EA Top Visor For Powerflood Flood Light.....	108.69	26.65
26 56 36 00-0057 EA Top And Two Side Visors For Powerflood GE Flood Light.....	86.41	26.65
26 56 36 00-0058 EA Pipe Wall Mounting Bracket For Powerflood GE Flood Light.....	224.85	79.95
26 56 36 00-0059 EA Multiple Mounting Channel For Powerflood GE Flood Light.....	93.42	26.65
26 56 36 00-0060 EA Wall Or Flat Surface Bracket For Powerflood GE Flood Light.....	177.11	79.95
26 56 36 00-0061 EA Steel Angle Bracket For Powerflood GE Flood Light.....	182.84	79.95
26 56 36 00-0062 EA Cross Arm Adaptor For Powerflood GE Flood Light.....	73.68	26.65
26 56 36 00-0063 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Powerflood GE Flood Light.....	71.77	26.65



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 56 36 00-0064			Lithonia Contour Series Flood Lights <small>(26 56 36)</small>		
26 56 36 00-0065			TFM (Small Size) Series Lithonia Flood Lights <small>(26 56 36 00-0064)</small> Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Faceted parabolic optics. 1/2" threaded mounting knuckle.		
26 56 36 00-0066			High Pressure Sodium TFM Series Lithonia Flood Lights <small>(26 56 36 00-0065)</small>		
26 56 36 00-0067	EA		70 Watt High Pressure Sodium TFM Series Lithonia Flood Light	453.70	106.61
26 56 36 00-0068	EA		100 Watt High Pressure Sodium TFM Series Lithonia Flood Light	490.46	106.61
26 56 36 00-0069	EA		150 Watt High Pressure Sodium TFM Series Lithonia Flood Light	526.45	106.61
26 56 36 00-0070			Metal Halide TFM Series Lithonia Flood Lights <small>(26 56 36 00-0065)</small>		
26 56 36 00-0071	EA		50 Watt Metal Halide TFM Series Lithonia Flood Light	571.37	106.61
26 56 36 00-0072	EA		70 Watt Metal Halide TFM Series Lithonia Flood Light	562.52	106.61
26 56 36 00-0073	EA		100 Watt Metal Halide TFM Series Lithonia Flood Light	548.26	106.61
26 56 36 00-0074	EA		175 Watt Metal Halide TFM Series Lithonia Flood Light	547.21	106.61
26 56 36 00-0075			Compact Fluorescent TFM Series Lithonia Flood Lights <small>(26 56 36 00-0065)</small>		
26 56 36 00-0076	EA		42 Watt Compact Fluorescent TFM Series Lithonia Flood Light	567.70	106.61
26 56 36 00-0077			TFL (Medium Size) Series Lithonia Flood Lights <small>(26 56 36 00-0064)</small> Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0078			High Pressure Sodium TFL Series Lithonia Flood Lights <small>(26 56 36 00-0077)</small>		
26 56 36 00-0079	EA		250 Watt High Pressure Sodium TFL Series Lithonia Flood Light	671.89	119.94
26 56 36 00-0080	EA		400 Watt High Pressure Sodium TFL Series Lithonia Flood Light	684.15	119.94
26 56 36 00-0081			Metal Halide TFL Series Lithonia Flood Lights <small>(26 56 36 00-0077)</small>		
26 56 36 00-0082	EA		175 Watt Metal Halide TFL Series Lithonia Flood Light	644.34	119.94
26 56 36 00-0083	EA		250 Watt Metal Halide TFL Series Lithonia Flood Light	644.34	119.94
26 56 36 00-0084	EA		400 Watt Metal Halide TFL Series Lithonia Flood Light	663.57	119.94
26 56 36 00-0085			TFR (Low Profile) Series Lithonia Flood Lights <small>(26 56 36 00-0064)</small> Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0086			High Pressure Sodium TFR Lithonia Flood Lights <small>(26 56 36 00-0085)</small>		
26 56 36 00-0087	EA		150 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	639.13	106.61
26 56 36 00-0088	EA		250 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	657.48	106.61
26 56 36 00-0089	EA		400 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	672.81	106.61
26 56 36 00-0090			Metal Halide TFR Lithonia Flood Lights <small>(26 56 36 00-0085)</small>		
26 56 36 00-0091	EA		250 Watt Metal Halide TFR Series Lithonia Flood Light	632.99	106.61
26 56 36 00-0092	EA		400 Watt Metal Halide TFR Series Lithonia Flood Light	651.37	106.61
26 56 36 00-0093			TFA (Large Size) Series Lithonia Flood Lights <small>(26 56 36 00-0064)</small> Note: For industrial yards, parking lots, construction sites, streets and recreational areas. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0094			High Pressure Sodium TFA Series Lithonia Flood Lights <small>(26 56 36 00-0093)</small>		
26 56 36 00-0095	EA		1,000 Watt High Pressure Sodium TFA Series Lithonia Flood Light	1,200.91	133.26
26 56 36 00-0096			Metal Halide TFA Series Lithonia Flood Lights <small>(26 56 36 00-0093)</small>		
26 56 36 00-0097	EA		400 Watt Metal Halide TFA Series Lithonia Flood Light	940.50	133.26
26 56 36 00-0098	EA		1,000 Watt Metal Halide TFA Series Lithonia Flood Light	1,032.40	133.26
26 56 36 00-0099			Accessories For Contour Series Lithonia Flood Lights <small>(26 56 36 00-0064)</small>		
26 56 36 00-0100	EA		Wireguard For Contour Series Lithonia Flood Light	111.08	26.65
26 56 36 00-0101	EA		Vandal Guard For Contour Series Lithonia Flood Light	201.28	26.65
26 56 36 00-0102	EA		Upper Visor For Contour Series Lithonia Flood Light	94.05	26.65
26 56 36 00-0103	EA		Full Visor For Contour Series Lithonia Flood Light	121.62	26.65
26 56 36 00-0104	EA		Pipe Wall Mounting Bracket For Contour Series Lithonia Flood Light	282.44	79.95
26 56 36 00-0105	EA		Radius Wall Bracket For Contour Series Lithonia Flood Light	233.66	79.95
26 56 36 00-0106	EA		Steel Angle Bracket For Contour Series Lithonia Flood Light	233.66	79.95
26 56 36 00-0107	EA		U Bolt Wall Bracket For Contour Series Lithonia Flood Light, Mounts To 2" Pipe	253.12	79.95
26 56 36 00-0108	EA		Crossarm Adapter For Horizontal Mounted Contour Lithonia Series Flood Light	106.89	26.65
26 56 36 00-0109	EA		120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Contour Lithonia Series Flood Light	88.20	26.65



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0110 Eaton Flood Lights <small>(26 56 36)</small>		
26 56 36 00-0111 EA 6" x 6", 128 Watt, 16,932 Lumens, LED Flood Light (Eaton NFFLD-C40-D-UNV-66-T-CB) <i>For NEMA Photocontrol Option (Eaton OAVRA1016), Add</i>	680.72 32.99	106.61
26 56 36 00-0112 Ruud Flood Lights <small>(26 56 36)</small>		
26 56 36 00-0113 NS (Micro) Series Ruud Flood Lights <small>(26 56 36 00-0112)</small>		
Note: Provides conventional floodlighting. 1/2" threaded mounting knuckle.		
26 56 36 00-0114 High Pressure Sodium NS Series Ruud Flood Lights <small>(26 56 36 00-0113)</small>		
26 56 36 00-0115 EA 35 Watt High Pressure Sodium NS Series Ruud Flood Light	303.79	79.95
26 56 36 00-0116 EA 50 Watt High Pressure Sodium NS Series Ruud Flood Light	303.79	79.95
26 56 36 00-0117 EA 70 Watt High Pressure Sodium NS Series Ruud Flood Light	303.79	79.95
26 56 36 00-0118 EA 100 Watt High Pressure Sodium NS Series Ruud Flood Light	303.79	79.95
26 56 36 00-0119 EA 150 Watt High Pressure Sodium NS Series Ruud Flood Light	303.79	79.95
26 56 36 00-0120 Metal Halide NS Series Ruud Flood Lights <small>(26 56 36 00-0113)</small>		
26 56 36 00-0121 EA 50 Watt Metal Halide NS Series Ruud Flood Light	339.44	79.95
26 56 36 00-0122 EA 70 Watt Metal Halide NS Series Ruud Flood Light	339.44	79.95
26 56 36 00-0123 EA 100 Watt Metal Halide NS Series Ruud Flood Light	339.44	79.95
26 56 36 00-0124 Compact Fluorescent NS Series Ruud Flood Lights <small>(26 56 36 00-0113)</small>		
26 56 36 00-0125 EA 13 Watt Compact Fluorescent NS Series Ruud Flood Light	266.87	79.95
26 56 36 00-0126 EA 26 Watt Compact Fluorescent NS Series Ruud Flood Light	275.78	79.95
26 56 36 00-0127 EA 32 Watt Compact Fluorescent NS Series Ruud Flood Light	278.33	79.95
26 56 36 00-0128 EA 42 Watt Compact Fluorescent NS Series Ruud Flood Light	280.87	79.95
26 56 36 00-0129 NSF/NSW/NSC (Standard, Wide And Cutoff Micro) Series Ruud Flood Lights <small>(26 56 36 00-0112)</small>		
Note: The NSF is suited for large open areas and façade applications. The NSW is suited for roadway applications, parking areas or security. The NSC is designed for parking lot and outdoor sports areas. Yoke or slip fitter mounting.		
26 56 36 00-0130 High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Lights <small>(26 56 36 00-0129)</small>		
26 56 36 00-0131 EA 150 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	466.50	119.94
26 56 36 00-0132 EA 250 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	489.42	119.94
26 56 36 00-0133 EA 400 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	502.15	119.94
26 56 36 00-0134 Metal Halide NSF/NSW/NSC Series Ruud Flood Lights <small>(26 56 36 00-0129)</small>		
26 56 36 00-0135 EA 175 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	461.41	119.94
26 56 36 00-0136 EA 250 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	463.95	119.94
26 56 36 00-0137 EA 400 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	471.59	119.94
26 56 36 00-0138 Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Lights <small>(26 56 36 00-0129)</small>		
26 56 36 00-0139 EA 70 Watt Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Light	452.49	119.94
26 56 36 00-0140 FS (Square) Series Ruud Flood Lights <small>(26 56 36 00-0112)</small>		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
26 56 36 00-0141 High Pressure Sodium FS Series Ruud Flood Lights <small>(26 56 36 00-0140)</small>		
26 56 36 00-0142 EA 250 Watt High Pressure Sodium FS Series Ruud Flood Light	533.98	119.94
26 56 36 00-0143 EA 400 Watt High Pressure Sodium FS Series Ruud Flood Light	536.53	119.94
26 56 36 00-0144 EA 1,000 Watt High Pressure Sodium FS Series Ruud Flood Light	871.30	133.26
26 56 36 00-0145 Metal Halide FS Series Ruud Flood Lights <small>(26 56 36 00-0140)</small>		
26 56 36 00-0146 EA 175 Watt Metal Halide FS Series Ruud Flood Light	533.98	119.94
26 56 36 00-0147 EA 250 Watt Metal Halide FS Series Ruud Flood Light	536.53	119.94
26 56 36 00-0148 EA 400 Watt Metal Halide FS Series Ruud Flood Light	544.16	119.94
26 56 36 00-0149 EA 1,000 Watt Metal Halide FS Series Ruud Flood Light	787.27	133.26
26 56 36 00-0150 MFS (Mini Square) Series Ruud Flood Lights <small>(26 56 36 00-0112)</small>		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
26 56 36 00-0151 High Pressure Sodium MFS Series Ruud Flood Lights <small>(26 56 36 00-0150)</small>		
26 56 36 00-0152 EA 35 Watt High Pressure Sodium MFS Series Ruud Flood Light	425.84	106.61
26 56 36 00-0153 EA 50 Watt High Pressure Sodium MFS Series Ruud Flood Light	452.58	106.61
26 56 36 00-0154 EA 70 Watt High Pressure Sodium MFS Series Ruud Flood Light	452.58	106.61
26 56 36 00-0155 EA 100 Watt High Pressure Sodium MFS Series Ruud Flood Light	452.58	106.61
26 56 36 00-0156 EA 150 Watt High Pressure Sodium MFS Series Ruud Flood Light	452.58	106.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0157 Metal Halide MFS Series Ruud Flood Lights <small>(26 56 36 00-0150)</small>		
26 56 36 00-0158 EA 50 Watt Metal Halide MFS Series Ruud Flood Light.....	461.49	106.61
26 56 36 00-0159 EA 70 Watt Metal Halide MFS Series Ruud Flood Light.....	461.49	106.61
26 56 36 00-0160 EA 100 Watt Metal Halide MFS Series Ruud Flood Light.....	461.49	106.61
26 56 36 00-0161 EA 175 Watt Metal Halide MFS Series Ruud Flood Light.....	447.49	106.61
26 56 36 00-0162 MCF/MPM/MPN (Mini Cutoff. Parabolic Medium And Narrow Mini Square) Series Ruud Flood Lights <small>(26 56 36 00-0112)</small>		
Note: The MCF is suited for parking lots, volleyball courts and tennis courts. The MPM and MPN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
26 56 36 00-0163 High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Lights <small>(26 56 36 00-0162)</small>		
26 56 36 00-0164 EA 35 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	457.67	106.61
26 56 36 00-0165 EA 50 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	484.41	106.61
26 56 36 00-0166 EA 70 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	484.41	106.61
26 56 36 00-0167 EA 100 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	484.41	106.61
26 56 36 00-0168 EA 150 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	484.41	106.61
26 56 36 00-0169 Metal Halide MCF/MPM/MPN Series Ruud Flood Lights <small>(26 56 36 00-0162)</small>		
26 56 36 00-0170 EA 50 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	493.32	106.61
26 56 36 00-0171 EA 70 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	493.32	106.61
26 56 36 00-0172 EA 100 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	493.32	106.61
26 56 36 00-0173 EA 175 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	479.32	106.61
26 56 36 00-0174 CF (Cutoff Square) Series Ruud Flood Lights <small>(26 56 36 00-0112)</small>		
Note: The CF is suited for parking lots, volleyball courts and tennis courts. Yoke or slip fitter mounting.		
26 56 36 00-0175 High Pressure Sodium CF Series Ruud Flood Lights <small>(26 56 36 00-0174)</small>		
26 56 36 00-0176 EA 250 Watt High Pressure Sodium CF Series Ruud Flood Light.....	593.82	119.94
26 56 36 00-0177 EA 400 Watt High Pressure Sodium CF Series Ruud Flood Light.....	606.55	119.94
26 56 36 00-0178 EA 1,000 Watt High Pressure Sodium CF Series Ruud Flood Light.....	903.13	133.26
26 56 36 00-0179 Metal Halide CF Series Ruud Flood Lights <small>(26 56 36 00-0174)</small>		
26 56 36 00-0180 EA 175 Watt Metal Halide CF Series Ruud Flood Light.....	565.81	119.94
26 56 36 00-0181 EA 250 Watt Metal Halide CF Series Ruud Flood Light.....	568.36	119.94
26 56 36 00-0182 EA 400 Watt Metal Halide CF Series Ruud Flood Light.....	575.99	119.94
26 56 36 00-0183 EA 1,000 Watt Metal Halide CF Series Ruud Flood Light.....	819.10	133.26
26 56 36 00-0184 CN (Narrow Beam Cutoff Square) Series Ruud Flood Lights <small>(26 56 36 00-0112)</small>		
Note: The CN is suited for large sports fields, building facades and signs. Yoke or slip fitter mounting.		
26 56 36 00-0185 High Pressure Sodium CN Series Ruud Flood Lights <small>(26 56 36 00-0184)</small>		
26 56 36 00-0186 EA 400 High Pressure Sodium CN Series Ruud Flood Light.....	755.44	133.26
26 56 36 00-0187 EA 1,000 High Pressure Sodium CN Series Ruud Flood Light.....	887.85	133.26
26 56 36 00-0188 Metal Halide CN Series Ruud Flood Lights <small>(26 56 36 00-0184)</small>		
26 56 36 00-0189 EA 400 Watt Metal Halide CN Series Ruud Flood Light	724.88	133.26
26 56 36 00-0190 EA 1,000 Watt Metal Halide CN Series Ruud Flood Light	803.82	133.26
26 56 36 00-0191 PM/PN (Parabolic Medium And Narrow Square) Series Ruud Flood Lights <small>(26 56 36 00-0112)</small>		
Note: The PM and PN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
26 56 36 00-0192 High Pressure Sodium PM/PN Series Ruud Flood Lights <small>(26 56 36 00-0191)</small>		
26 56 36 00-0193 EA 250 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	611.64	119.94
26 56 36 00-0194 EA 400 Watt High Pressure Sodium PM/PN Series Ruud Flood Light	624.38	119.94
26 56 36 00-0195 Metal Halide PM/PN Series Ruud Flood Lights <small>(26 56 36 00-0191)</small>		
26 56 36 00-0196 EA 175 Watt Metal Halide PM/PN Series Ruud Flood Light.....	583.63	119.94
26 56 36 00-0197 EA 250 Watt Metal Halide PM/PN Series Ruud Flood Light.....	586.18	119.94
26 56 36 00-0198 EA 400 Watt Metal Halide PM/PN Series Ruud Flood Light.....	593.82	119.94
26 56 36 00-0199 EA 1,000 Watt Metal Halide PM/PN Series Ruud Flood Light.....	836.92	133.26
26 56 36 00-0200 Accessories For Ruud Flood Lighting <small>(26 56 36 00-0112)</small>		
26 56 36 00-0201 EA Wireguard For Ruud Flood Light.....	72.41	26.65
26 56 36 00-0202 EA Deep Baffle (Full Visor) For Ruud Flood Light	106.78	26.65
26 56 36 00-0203 EA Glare Guard (Upper Visor) For Ruud Flood Light	81.32	26.65
26 56 36 00-0204 EA Vandal Shield For Ruud Flood Light	94.05	26.65
26 56 36 00-0205 EA Pipe Mounting Bracket For Ruud Flood Light	203.21	79.95
26 56 36 00-0206 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Ruud Flood Light.....	64.77	26.65



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0207 Lumark Flood Lights <small>(26 56 36)</small>		
26 56 36 00-0208 QZ Wedge Series Quartz Lumark Flood Lights <small>(26 56 36 00-0207)</small> Note: For small outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 56 36 00-0209 EA 500 Watt QZ Wedge Series Quartz Lumark Flood Light.....	185.96	79.95
26 56 36 00-0210 LQL Series Quartz Lumark Flood Lights <small>(26 56 36 00-0207)</small> Note: For medium size outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 56 36 00-0211 EA 1,500 Watt LQL Series Quartz Lumark Flood Light	223.52	79.95
26 56 36 00-0212 Kim Lighting <small>(26 56 36)</small>		
26 56 36 00-0213 MicroFlood® Series Kim Lighting Flood Lights <small>(26 56 36 00-0212)</small> Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 56 36 00-0214 LED MicroFlood® Series Kim Lighting Flood Lights <small>(26 56 36 00-0213)</small>		
26 56 36 00-0215 EA 5 Watt LED MicroFlood® Series Kim Lighting Flood Light.....	318.27	33.82
26 56 36 00-0216 EA 15 Watt LED MicroFlood® Series Kim Lighting Flood Light.....	388.91	33.82
26 56 36 00-0217 Scarab® Series Kim Lighting Flood Lights <small>(26 56 36 00-0212)</small> Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 56 36 00-0218 LED Scarab® Series Kim Lighting Accent Flood Lights <small>(26 56 36 00-0217)</small> Note: Spot or narrow style accent flood lights.		
26 56 36 00-0219 EA 6 Watt LED Scarab® Series Kim Lighting Accent Flood Light.....	475.81	33.82
26 56 36 00-0220 CREE® BetaLED® Flood Lights <small>(26 56 36)</small>		
26 56 36 00-0221 Yoke Mount, Square, LED Flood Lights (CREE® BetaLED® FLD-304) <small>(26 56 36 00-0220)</small> Note: UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 36 00-0222 EA 40 LEDs, 47 System Watts, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	945.79	96.21
26 56 36 00-0223 EA 60 LEDs, 68 System Watts, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	1,036.21	101.55
26 56 36 00-0224 Adjustable Arm Mount, Rectangular, LED Flood Lights (CREE® BetaLED® Edge® FLD-EDG) <small>(26 56 36 00-0220)</small> Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 36 00-0225 EA 20 LEDs, 26 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	821.00	90.86
For 347-480 Volt, Add	59.38	
26 56 36 00-0226 EA 40 LEDs, 47 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,033.78	96.21
For 347-480 Volt, Add	59.38	
26 56 36 00-0227 EA 60 LEDs, 68 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,246.55	101.55
For 347-480 Volt, Add	59.38	
26 56 36 00-0228 EA 80 LEDs, 90 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,540.44	106.90
For 347-480 Volt, Add	59.38	
26 56 36 00-0229 EA 100 LEDs, 111 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,753.22	112.24
For 347-480 Volt, Add	59.38	
26 56 36 00-0230 EA 120 LEDs, 132 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,966.00	117.59
For 347-480 Volt, Add	59.38	
26 56 36 00-0231 EA 140 LEDs, 157 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,243.39	122.93
For 347-480 Volt, Add	59.38	
26 56 36 00-0232 EA 160 LEDs, 179 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,456.17	128.27
For 347-480 Volt, Add	59.38	
26 56 36 00-0233 Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® Edge® FLD-EHO) <small>(26 56 36 00-0220)</small> Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0234	EA		120 LEDs, 267 System Watts, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	1,884.89	117.59
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Bird Spikes, Add</i>	37.30	
			<i>For 5,000K Color Temperature, Add</i>	40.54	
			<i>For Fuse, Add</i>	48.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	48.64	
			<i>For 480 Volt, Add</i>	72.97	
			<i>For Multi-Level, Add</i>	105.39	
			<i>For 1,000mA Driver, Add</i>	136.20	
26 56 36 00-0235	EA		240 LEDs, 533 System Watts, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	3,198.19	144.31
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For 5,000K Color Temperature, Add</i>	40.54	
			<i>For Fuse, Add</i>	48.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	48.64	
			<i>For Bird Spikes, Add</i>	55.30	
			<i>For Multi-Level, Add</i>	105.39	
			<i>For 1,000mA Driver, Add</i>	136.20	
			<i>For 480 Volt, Add</i>	145.92	
26 56 36 00-0236			Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® OSQ™) <small>(26 56 36 00-0220)</small>		
			Note: UL wet listed. Includes 3,000K or 4,000K or 5,700K color temperature, 120/277 voltage, Class 1 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 36 00-0237	EA		112 System Watts, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-A-XXX-US-UL)	1,103.44	117.59
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	28.78	
			<i>For Rotated Optics, Back Light Shield, Add</i>	28.78	
			<i>For Field Adjustable Output, Add</i>	24.33	
			<i>For Fuse, Add</i>	48.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	48.64	
			<i>For Multi-Level, Add</i>	105.39	
26 56 36 00-0238	EA		168 System Watts, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-J-XXX-US-UL)	1,180.06	117.59
			Note: Type III, IV or V medium optics only.		
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	28.78	
			<i>For Rotated Optics, Back Light Shield, Add</i>	28.78	
			<i>For Field Adjustable Output, Add</i>	24.33	
			<i>For Fuse, Add</i>	48.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	48.64	
			<i>For Type II Medium Or Type V Short Optics, Add</i>	-67.68	
			<i>For Multi-Level, Add</i>	105.39	
26 56 36 00-0239	EA		223 System Watts, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-S-XXX-US-UL)	1,514.42	144.31
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.21	
			<i>For Field Adjustable Output, Add</i>	24.33	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	34.86	
			<i>For Rotated Optics, Back Light Shield, Add</i>	34.86	
			<i>For Fuse, Add</i>	48.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	48.64	
			<i>For Multi-Level, Add</i>	105.39	
26 56 36 00-0240			PlanLED Flood Lights <small>(26 56 36)</small>		
26 56 36 00-0241			Adjustable Arm Mount, LED Flood Lights (PlanLED WAPA) <small>(26 56 36 00-0240)</small>		
26 56 36 00-0242	EA		6,250 Lumens, 50 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP050)	420.76	96.21
26 56 36 00-0243	EA		9,375 Lumens, 75 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP075)	495.84	101.55
26 56 36 00-0244	EA		12,500 Lumens, 100 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP100).....	568.09	109.57
26 56 36 00-0245			Adjustable Arm Mount, LED Sports Flood Lights (PlanLED SUFA) <small>(26 56 36 00-0240)</small>		
26 56 36 00-0246	EA		21,000 Lumens, 200 System Watts, LED Sports Flood Light (PlanLED SUFA SF200).....	1,147.73	213.79
			<i>For 0 To 10 Volt Dimming, Add</i>	50.17	
26 56 36 00-0247	EA		42,000 Lumens, 400 System Watts, LED Sports Flood Light (PlanLED SUFA SF400).....	1,715.65	213.79
			<i>For 0 To 10 Volt Dimming, Add</i>	50.17	
26 56 36 00-0248	EA		84,000 Lumens, 800 System Watts, LED Sports Flood Light (PlanLED SUFA SF800).....	2,938.13	213.79
			<i>For 0 To 10 Volt Dimming, Add</i>	50.17	
26 56 36 00-0249			Adjustable Arm Mount, LED High Mast Flood Lights (PlanLED MAHA) <small>(26 56 36 00-0240)</small>		
26 56 36 00-0250	EA		26,000 Lumens, 200 System Watts, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA200).....	988.71	138.96
			<i>For 0 To 10 Volt Dimming, Add</i>	50.17	
			<i>For 347-480 Volt, Add</i>	-19.86	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0251 EA 39,000 Lumens, 300 System Watts, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA300).....	1,247.64	144.31
<i>For 0 To 10 Volt Dimming, Add</i>	50.17	
<i>For 347-480 Volt, Add</i>	60.51	
26 56 36 00-0252 EA 52,000 Lumens, 400 System Watts, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA400).....	1,573.31	149.65
<i>For 0 To 10 Volt Dimming, Add</i>	50.17	
<i>For 347-480 Volt, Add</i>	48.60	

END OF SECTION 26

26	26	Electrical
	26 50	Lighting
	26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 Communications

Note: Termination costs are included with all communication equipment, panel boards, and devices. Terminations are not included with patch panels.

27 05 Common Work Results for Communications ⁽²⁷⁾

27 05 26 Grounding and Bonding for Communications Systems ^(27 05)

27 05 26 00-0001	EA	25 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 720-00).....	642.27	98.77
		Note: Excludes terminations.		
27 05 26 00-0002	EA	50 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 820-00).....	830.48	131.72
		Note: Excludes terminations.		
27 05 26 00-0003	EA	100 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 630-00).....	1,304.13	197.53
		Note: Excludes terminations.		
27 05 26 00-0004	EA	Lucent 3B1-EW, Gas Tube Protector Unit.....	7.79	1.44
27 05 26 00-0005	EA	44 Terminal Copper Ground Bus Bar (Siemens ECGK).....	61.35	26.10
27 05 26 00-0006	EA	2" x 1/4" x 12", TGB Pattern, Grounding Bus Bar.....	178.80	26.10
27 05 26 00-0007	EA	4" x 1/4" x 12", TMGB Pattern, Grounding Bus Bar.....	211.42	26.10
27 05 26 00-0008	EA	#6 AWG, Cable Runway Ground Strap.....	44.75	4.84
27 05 26 00-0009	EA	1/4" Screw Size, #6 AWG Compression Lug.....	17.46	4.84
27 05 26 00-0010	EA	3/8" Screw Size, #6 AWG Compression Lug.....	18.42	4.84
27 05 26 00-0011	EA	Two Mounting Hole, Ground Terminal Block.....	20.20	4.84

27 05 29 Hangers And Supports For Communications Systems ^(27 05)

See CSI section 26 05 29 00-0000 for hangers and supports.

27 05 29 00-0001 Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29)

27 05 29 00-0002 Screw On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29 00-0001)

Note: Includes screw.

27 05 29 00-0003	EA	3/4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12).....	6.78	2.42
		<i>For >50 To 100, Deduct</i>	-0.29	
		<i>For >100 To 250, Deduct</i>	-0.58	
		<i>For >250 To 500, Deduct</i>	-1.11	
		<i>For >500, Deduct</i>	-1.65	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.31	
		<i>For Work In Restricted Working Space, Add</i>	1.45	
		<i>For Painted Powder Coated Finish, Add</i>	0.39	
27 05 29 00-0004	EA	1-5/16" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21).....	7.08	2.42
		<i>For >50 To 100, Deduct</i>	-0.30	
		<i>For >100 To 250, Deduct</i>	-0.60	
		<i>For >250 To 500, Deduct</i>	-1.14	
		<i>For >500, Deduct</i>	-1.68	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.31	
		<i>For Work In Restricted Working Space, Add</i>	1.45	
		<i>For Painted Powder Coated Finish, Add</i>	1.38	
		<i>For Low Friction Xylan® Coated Finish, Add</i>	4.92	
27 05 29 00-0005	EA	2" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32).....	7.55	2.42
		<i>For >50 To 100, Deduct</i>	-0.31	
		<i>For >100 To 250, Deduct</i>	-0.62	
		<i>For >250 To 500, Deduct</i>	-1.17	
		<i>For >500, Deduct</i>	-1.72	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.31	
		<i>For Work In Restricted Working Space, Add</i>	1.45	
		<i>For Painted Powder Coated Finish, Add</i>	1.70	
		<i>For Low Friction Xylan® Coated Finish, Add</i>	6.12	
27 05 29 00-0006	EA	4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64).....	11.57	2.42
		<i>For >50 To 100, Deduct</i>	-0.41	
		<i>For >100 To 250, Deduct</i>	-0.82	
		<i>For >250 To 500, Deduct</i>	-1.47	
		<i>For >500, Deduct</i>	-2.13	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.31	
		<i>For Work In Restricted Working Space, Add</i>	1.45	
		<i>For Painted Powder Coated Finish, Add</i>	0.91	
		<i>For Low Friction Xylan® Coated Finish, Add</i>	5.42	

27 05 29 00-0007 Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29 00-0001)

Note: Includes screw.

27 05 29 00-0008	EA	3/4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-RB).....	7.49	2.42
		<i>For >50 To 100, Deduct</i>	-0.31	
		<i>For >100 To 250, Deduct</i>	-0.62	
		<i>For >250 To 500, Deduct</i>	-1.17	
		<i>For >500, Deduct</i>	-1.72	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.31	
		<i>For Work In Restricted Working Space, Add</i>	1.45	

27 Communications**27 05 Common Work Results for Communications****27 05 29 Hangers And Supports For Communications Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0009	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-RB)	9.30	2.42
			<i>For >50 To 100, Deduct</i>	-0.35	
			<i>For >100 To 250, Deduct</i>	-0.71	
			<i>For >250 To 500, Deduct</i>	-1.30	
			<i>For >500, Deduct</i>	-1.90	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.31	
			<i>For Work In Restricted Working Space, Add</i>	1.45	
27 05 29 00-0010	EA		2" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-RB)	10.18	2.42
			<i>For >50 To 100, Deduct</i>	-0.38	
			<i>For >100 To 250, Deduct</i>	-0.75	
			<i>For >250 To 500, Deduct</i>	-1.37	
			<i>For >500, Deduct</i>	-1.99	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.31	
			<i>For Work In Restricted Working Space, Add</i>	1.45	
27 05 29 00-0011	EA		4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-RB)	13.34	2.42
			<i>For >50 To 100, Deduct</i>	-0.45	
			<i>For >100 To 250, Deduct</i>	-0.91	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-2.30	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.31	
			<i>For Work In Restricted Working Space, Add</i>	1.45	
27 05 29 00-0012			Strut Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small>		
			Note: Excludes strut.		
27 05 29 00-0013	EA		3/4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-SC4)	7.82	2.42
			<i>For >50 To 100, Deduct</i>	-0.32	
			<i>For >100 To 250, Deduct</i>	-0.63	
			<i>For >250 To 500, Deduct</i>	-1.19	
			<i>For >500, Deduct</i>	-1.75	
			<i>For Work In Restricted Working Space, Add</i>	1.45	
27 05 29 00-0014	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-SC4)	9.03	2.42
			<i>For >50 To 100, Deduct</i>	-0.35	
			<i>For >100 To 250, Deduct</i>	-0.69	
			<i>For >250 To 500, Deduct</i>	-1.28	
			<i>For >500, Deduct</i>	-1.87	
			<i>For Work In Restricted Working Space, Add</i>	1.45	
27 05 29 00-0015	EA		2" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-SC4)	9.66	2.42
			<i>For >50 To 100, Deduct</i>	-0.36	
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.33	
			<i>For >500, Deduct</i>	-1.93	
			<i>For Work In Restricted Working Space, Add</i>	1.45	
27 05 29 00-0016	EA		4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-SC4)	12.64	2.42
			<i>For >50 To 100, Deduct</i>	-0.44	
			<i>For >100 To 250, Deduct</i>	-0.87	
			<i>For >250 To 500, Deduct</i>	-1.55	
			<i>For >500, Deduct</i>	-2.23	
			<i>For Work In Restricted Working Space, Add</i>	1.45	
27 05 29 00-0017			T-Bar Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small>		
			Note: Excludes T-Bar.		
27 05 29 00-0018	EA		3/4" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-A28)	9.15	2.42
			<i>For >50 To 100, Deduct</i>	-0.35	
			<i>For >100 To 250, Deduct</i>	-0.70	
			<i>For >250 To 500, Deduct</i>	-1.29	
			<i>For >500, Deduct</i>	-1.88	
			<i>For Work In Restricted Working Space, Add</i>	1.45	
27 05 29 00-0019	EA		1-5/16" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-A28)	11.19	2.42
			<i>For >50 To 100, Deduct</i>	-0.40	
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.44	
			<i>For >500, Deduct</i>	-2.09	
			<i>For Work In Restricted Working Space, Add</i>	1.45	
27 05 29 00-0020	EA		2" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-A28)	11.73	2.42
			<i>For >50 To 100, Deduct</i>	-0.41	
			<i>For >100 To 250, Deduct</i>	-0.83	
			<i>For >250 To 500, Deduct</i>	-1.48	
			<i>For >500, Deduct</i>	-2.14	
			<i>For Work In Restricted Working Space, Add</i>	1.45	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	27 05 29 00-0021			Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small>		
				Note: Excludes threaded rod. See CSI section 26 05 29 00-0372 for threaded rod.		
	27 05 29 00-0022	EA		3/4" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-W6).....	7.66	2.42
				<i>For >50 To 100, Deduct</i>	-0.31	
				<i>For >100 To 250, Deduct</i>	-0.63	
				<i>For >250 To 500, Deduct</i>	-1.18	
				<i>For >500, Deduct</i>	-1.73	
				<i>For Work In Restricted Working Space, Add</i>	1.45	
	27 05 29 00-0023	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-W6).....	7.94	2.42
				<i>For >50 To 100, Deduct</i>	-0.32	
				<i>For >100 To 250, Deduct</i>	-0.64	
				<i>For >250 To 500, Deduct</i>	-1.20	
				<i>For >500, Deduct</i>	-1.76	
				<i>For Work In Restricted Working Space, Add</i>	1.45	
	27 05 29 00-0024	EA		2" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-W6).....	9.36	2.42
				<i>For >50 To 100, Deduct</i>	-0.36	
				<i>For >100 To 250, Deduct</i>	-0.71	
				<i>For >250 To 500, Deduct</i>	-1.31	
				<i>For >500, Deduct</i>	-1.90	
				<i>For Work In Restricted Working Space, Add</i>	1.45	
	27 05 29 00-0025			Threaded Rod Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small>		
				Note: Excludes threaded rod, nuts and washers. See CSI section 26 05 29 00-0372 for threaded rod, nuts and washers.		
	27 05 29 00-0026	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-AB).....	9.19	2.42
				<i>For >50 To 100, Deduct</i>	-0.35	
				<i>For >100 To 250, Deduct</i>	-0.70	
				<i>For >250 To 500, Deduct</i>	-1.29	
				<i>For >500, Deduct</i>	-1.89	
				<i>For Work In Restricted Working Space, Add</i>	1.45	
	27 05 29 00-0027	EA		2" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-AB).....	9.86	2.42
				<i>For >50 To 100, Deduct</i>	-0.37	
				<i>For >100 To 250, Deduct</i>	-0.74	
				<i>For >250 To 500, Deduct</i>	-1.34	
				<i>For >500, Deduct</i>	-1.95	
				<i>For Work In Restricted Working Space, Add</i>	1.45	
	27 05 29 00-0028	EA		4" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-AB).....	13.15	2.42
				<i>For >50 To 100, Deduct</i>	-0.45	
				<i>For >100 To 250, Deduct</i>	-0.90	
				<i>For >250 To 500, Deduct</i>	-1.59	
				<i>For >500, Deduct</i>	-2.28	
				<i>For Work In Restricted Working Space, Add</i>	1.45	
	27 05 29 00-0029			Beam Clamp Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small>		
	27 05 29 00-0030	EA		3/4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-C442A).....	9.10	2.42
				<i>For >50 To 100, Deduct</i>	-0.35	
				<i>For >100 To 250, Deduct</i>	-0.70	
				<i>For >250 To 500, Deduct</i>	-1.29	
				<i>For >500, Deduct</i>	-1.88	
				<i>For Work In Restricted Working Space, Add</i>	1.45	
	27 05 29 00-0031	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-C442A).....	10.29	2.42
				<i>For >50 To 100, Deduct</i>	-0.38	
				<i>For >100 To 250, Deduct</i>	-0.76	
				<i>For >250 To 500, Deduct</i>	-1.38	
				<i>For >500, Deduct</i>	-2.00	
				<i>For Work In Restricted Working Space, Add</i>	1.45	
	27 05 29 00-0032	EA		2" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-C442A).....	10.91	2.42
				<i>For >50 To 100, Deduct</i>	-0.39	
				<i>For >100 To 250, Deduct</i>	-0.79	
				<i>For >250 To 500, Deduct</i>	-1.42	
				<i>For >500, Deduct</i>	-2.06	
				<i>For Work In Restricted Working Space, Add</i>	1.45	
	27 05 29 00-0033	EA		4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-C442A).....	14.35	2.42
				<i>For >50 To 100, Deduct</i>	-0.48	
				<i>For >100 To 250, Deduct</i>	-0.96	
				<i>For >250 To 500, Deduct</i>	-1.68	
				<i>For >500, Deduct</i>	-2.40	
				<i>For Work In Restricted Working Space, Add</i>	1.45	

27 Communications**27 05 Common Work Results for Communications****27 05 29 Hangers And Supports For Communications Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0034 Adjustable Cable Supports (Caddy® CableCat CAT425) ^(27 05 29)		
27 05 29 00-0035 EA Wall Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	24.79	3.19
For >50 To 100, Deduct	-0.86	
For >100 To 250, Deduct	-1.72	
For >250 To 500, Deduct	-3.07	
For >500, Deduct	-4.41	
For Installation On Concrete (Includes Drilling And Fastener), Add	2.51	
For Work In Restricted Working Space, Add	2.90	
27 05 29 00-0036 EA Threaded Rod Or Horizontal Surface Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	25.23	3.19
For >50 To 100, Deduct	-0.87	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-3.10	
For >500, Deduct	-4.45	
For Work In Restricted Working Space, Add	2.90	
27 05 29 00-0037 EA Up To 1/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	27.53	3.19
For >50 To 100, Deduct	-0.93	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-3.27	
For >500, Deduct	-4.68	
For Work In Restricted Working Space, Add	2.90	
27 05 29 00-0038 EA >1/4" To 3/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	24.71	3.19
For >50 To 100, Deduct	-0.86	
For >100 To 250, Deduct	-1.72	
For >250 To 500, Deduct	-3.06	
For >500, Deduct	-4.40	
For Work In Restricted Working Space, Add	2.90	
27 05 29 00-0039 EA Up To 1/2" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	25.78	3.19
For >50 To 100, Deduct	-0.89	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-3.14	
For >500, Deduct	-4.51	
For Work In Restricted Working Space, Add	2.90	
27 05 29 00-0040 EA >1/2" To 5/8" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	26.84	3.19
For >50 To 100, Deduct	-0.91	
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-4.61	
For Work In Restricted Working Space, Add	2.90	
27 05 29 00-0041 EA Up To 1/4" Flange, Hammer On Purlin Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	25.42	3.19
For >50 To 100, Deduct	-0.88	
For >100 To 250, Deduct	-1.75	
For >250 To 500, Deduct	-3.11	
For >500, Deduct	-4.47	
For Work In Restricted Working Space, Add	2.90	
27 05 33 Conduits And Backboxes For Communications Systems ^(27 05)		
See CSI section 26 05 33 00-0000 for conduit and boxes.		
27 05 39 Surface Raceways For Communications Systems ^(27 05)		
See CSI section 26 05 33 00-0000 for surface raceways.		
27 05 43 Underground Ducts And Raceways For Communications Systems ^(27 05)		
See CSI section 26 05 43 00-0000 for underground ducts and raceways.		
27 05 46 Utility Poles For Communications Systems ^(27 05)		
See CSI section 26 05 46 00-0000 for utility poles.		
27 05 53 Identification For Communications Systems ^(27 05)		
See CSI section 26 05 53 00-0000 for identification.		
27 10 Structured Cabling ⁽²⁷⁾		
Note: Includes testing.		
27 11 Communications Equipment Room Fittings ^(27 10)		
27 11 16 Communications Cabinets, Racks, Frames, And Enclosures ^(27 11)		
27 11 16 00-0001 3/4" Fire Retardant Plywood Backboards ^(27 11 16)		
27 11 16 00-0002 EA 4' x 4' x 3/4" Fire Retardant Plywood Phone Backboard.....	68.33	25.09
For Two Coats Of Non-Conductive, Fire Retardant Paint, Add	45.28	
27 11 16 00-0003 EA 4' x 8' x 3/4" Fire Retardant Plywood Phone Backboard.....	136.66	50.18
For Two Coats Of Non-Conductive, Fire Retardant Paint, Add	90.55	
27 11 16 00-0004 Terminal Cabinets ^(27 11 16)		
27 11 16 00-0005 EA 12" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	257.00	72.38



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0006	EA			18" x 12" x 4" Phone Terminal Cabinet With Wood Backboard.....	319.59	79.61
27 11 16 00-0007	EA			24" x 12" x 4" Phone Terminal Cabinet With Wood Backboard.....	367.77	91.68
27 11 16 00-0008	EA			18" x 18" x 4" Phone Terminal Cabinet With Wood Backboard.....	381.42	94.09
27 11 16 00-0009	EA			24" x 18" x 4" Phone Terminal Cabinet With Wood Backboard.....	458.43	96.51
27 11 16 00-0010	EA			26" x 36" x 4" Phone Terminal Cabinet With Wood Backboard.....	562.85	108.57
27 11 16 00-0011	EA			24" x 24" x 6" Phone Terminal Cabinet With Wood Backboard.....	574.05	106.15
27 11 16 00-0012	EA			30" x 24" x 6" Phone Terminal Cabinet With Wood Backboard.....	743.64	151.22
27 11 16 00-0013	EA			36" x 24" x 6" Phone Terminal Cabinet With Wood Backboard.....	797.43	166.18
27 11 16 00-0014	EA			42" x 24" x 6" Phone Terminal Cabinet With Wood Backboard.....	952.57	175.54
27 11 16 00-0015	EA			30" x 30" x 6" Phone Terminal Cabinet With Wood Backboard.....	786.64	144.75
27 11 16 00-0016	EA			36" x 30" x 6" Phone Terminal Cabinet With Wood Backboard.....	850.84	156.81
27 11 16 00-0017	EA			48" x 30" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,063.15	201.02
27 11 16 00-0018	EA			54" x 30" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,280.87	251.29
27 11 16 00-0019	EA			48" x 36" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,436.80	248.49
27 11 16 00-0020	EA			60" x 36" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,657.57	302.34
27 11 16 00-0021				Equipment Racks And Cable Managers (27 11 16)		
27 11 16 00-0022				Equipment Racks (27 11 16 00-0021) Note: Electronics Industries Association EIA-310-D compliant. Includes aluminum construction with clear grained aluminum or black epoxy-polyester hybrid powder coat finish.		
27 11 16 00-0023				Standard Equipment Racks (27 11 16 00-0022)		
27 11 16 00-0024				19" Width, Standard Equipment Racks (27 11 16 00-0023)		
27 11 16 00-0025	EA			84" Height, 19" Width, 3" Depth, 45U, Standard Equipment Rack (Chatsworth 55053-X03).....	475.68	154.41
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	8.34	
27 11 16 00-0026	EA			96" Height, 19" Width, 3" Depth, 51U, Standard Equipment Rack (Chatsworth 55053-X15).....	657.43	164.06
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	16.47	
27 11 16 00-0027	EA			108" Height, 19" Width, 3" Depth, 58U, Standard Equipment Rack (Chatsworth 55053-X08).....	709.99	173.70
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	18.13	
27 11 16 00-0028				Universal Equipment Racks (27 11 16 00-0022)		
27 11 16 00-0029				Universal Equipment Racks (27 11 16 00-0028)		
27 11 16 00-0030				19" Width, EIA Universal Equipment Racks (27 11 16 00-0029)		
27 11 16 00-0031	EA			36" Height, 19" Width, 3" Depth, 17U, EIA Universal Equipment Rack (Chatsworth 46353-X31).....	615.31	135.10
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	17.26	
27 11 16 00-0032	EA			48" Height, 19" Width, 3" Depth, 24U, EIA Universal Equipment Rack (Chatsworth 46353-X20).....	671.84	137.51
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	19.84	
27 11 16 00-0033	EA			60" Height, 19" Width, 3" Depth, 31U, EIA Universal Equipment Rack (Chatsworth 46353-X19).....	671.11	139.93
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	19.56	
27 11 16 00-0034	EA			66" Height, 19" Width, 3" Depth, 34U, EIA Universal Equipment Rack (Chatsworth 46353-X00).....	688.28	142.34
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	20.18	
27 11 16 00-0035	EA			72" Height, 19" Width, 3" Depth, 38U, EIA Universal Equipment Rack (Chatsworth 46353-X01).....	705.27	144.75
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	20.79	
27 11 16 00-0036	EA			78" Height, 19" Width, 3" Depth, 41U, EIA Universal Equipment Rack (Chatsworth 46353-X02).....	723.65	147.16
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	21.47	
27 11 16 00-0037	EA			84" Height, 19" Width, 3" Depth, 45U, EIA Universal Equipment Rack (Chatsworth 46353-X03).....	617.87	149.58
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	15.94	
27 11 16 00-0038	EA			90" Height, 19" Width, 3" Depth, 48U, EIA Universal Equipment Rack (Chatsworth 46353-X05).....	759.37	151.99
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	22.77	
27 11 16 00-0039	EA			96" Height, 19" Width, 3" Depth, 51U, EIA Universal Equipment Rack (Chatsworth 46353-X15).....	786.09	154.41
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	23.86	
27 11 16 00-0040	EA			102" Height, 19" Width, 3" Depth, 55U, EIA Universal Equipment Rack (Chatsworth 46353-X17).....	809.44	156.81
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	24.79	
27 11 16 00-0041	EA			108" Height, 19" Width, 3" Depth, 58U, EIA Universal Equipment Rack (Chatsworth 46353-X08).....	815.20	159.23
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	24.84	
27 11 16 00-0042				23" Width, Universal Equipment Racks (27 11 16 00-0029)		
27 11 16 00-0043	EA			36" Height, 23" Width, 3" Depth, 17U, Universal Equipment Rack (Chatsworth 46383-X31).....	650.73	135.10
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	19.03	
27 11 16 00-0044	EA			48" Height, 23" Width, 3" Depth, 24U, Universal Equipment Rack (Chatsworth 46383-X20).....	673.15	137.51
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	19.91	
27 11 16 00-0045	EA			60" Height, 23" Width, 3" Depth, 31U, Universal Equipment Rack (Chatsworth 46383-X19).....	692.91	139.93
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	20.65	
27 11 16 00-0046	EA			66" Height, 23" Width, 3" Depth, 34U, Universal Equipment Rack (Chatsworth 46383-X00).....	729.75	142.34
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	22.25	
27 11 16 00-0047	EA			72" Height, 23" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46383-X01).....	747.97	144.75
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	22.92	
27 11 16 00-0048	EA			78" Height, 23" Width, 3" Depth, 41U, Universal Equipment Rack (Chatsworth 46383-X02).....	767.76	147.16
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	23.67	
27 11 16 00-0049	EA			84" Height, 23" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46383-X03).....	662.49	149.58
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	18.17	
27 11 16 00-0050	EA			90" Height, 23" Width, 3" Depth, 48U, Universal Equipment Rack (Chatsworth 46383-X05).....	806.19	151.99
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	25.11	
27 11 16 00-0051	EA			96" Height, 23" Width, 3" Depth, 51U, Universal Equipment Rack (Chatsworth 46383-X15).....	835.12	154.41
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	26.32	
27 11 16 00-0052	EA			102" Height, 23" Width, 3" Depth, 55U, Universal Equipment Rack (Chatsworth 46383-X17).....	860.41	156.81
				<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	27.34	

27	Communications
27 10	Structured Cabling
27 11	Communications Equipment Room Fittings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0053 EA 108" Height, 23" Width, 3" Depth, 58U, Universal Equipment Rack (Chatsworth 46383-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	866.25 27.39	159.23
27 11 16 00-0054 35" Width, Universal Equipment Racks (27 11 16 00-0029)		
27 11 16 00-0055 EA 72" Height, 35" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46363-X01)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	808.00 25.92	144.75
27 11 16 00-0056 EA 84" Height, 35" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46363-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	850.73 27.58	149.58
27 11 16 00-0057 UL Listed Universal Equipment Racks (27 11 16 00-0028)		
Note: UL listed as a communications circuit accessory.		
27 11 16 00-0058 19" Width, UL Listed Universal Equipment Racks (27 11 16 00-0057)		
27 11 16 00-0059 EA 36" Height, 19" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48353-X31) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	649.83 18.98	135.10
27 11 16 00-0060 EA 48" Height, 19" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48353-X20) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	702.05 21.35	137.51
27 11 16 00-0061 EA 60" Height, 19" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48353-X19) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	712.82 21.65	139.93
27 11 16 00-0062 EA 66" Height, 19" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48353-X00) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	728.67 22.20	142.34
27 11 16 00-0063 EA 72" Height, 19" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48353-X01) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	746.83 22.87	144.75
27 11 16 00-0064 EA 78" Height, 19" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48353-X02) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	766.57 23.61	147.16
27 11 16 00-0065 EA 84" Height, 19" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48353-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	785.55 24.32	149.58
27 11 16 00-0066 EA 90" Height, 19" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48353-X05) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	804.94 25.05	151.99
27 11 16 00-0067 EA 96" Height, 19" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48353-X15) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	833.84 26.25	154.41
27 11 16 00-0068 EA 102" Height, 19" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48353-X17) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	859.06 27.27	156.81
27 11 16 00-0069 EA 108" Height, 19" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48353-X08) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	864.84 27.32	159.23
27 11 16 00-0070 23" Width, UL Listed Universal Equipment Racks (27 11 16 00-0057)		
27 11 16 00-0071 EA 36" Height, 23" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48383-X31) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	688.82 20.93	135.10
27 11 16 00-0072 EA 48" Height, 23" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48383-X20) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	754.92 23.99	137.51
27 11 16 00-0073 EA 60" Height, 23" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48383-X19) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	764.58 24.24	139.93
27 11 16 00-0074 EA 66" Height, 23" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48383-X00) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	774.25 24.48	142.34
27 11 16 00-0075 EA 72" Height, 23" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48383-X01) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	793.80 25.21	144.75
27 11 16 00-0076 EA 78" Height, 23" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48383-X02) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	815.11 26.04	147.16
27 11 16 00-0077 EA 84" Height, 23" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48383-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	835.51 26.82	149.58
27 11 16 00-0078 EA 90" Height, 23" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48383-X05) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	856.40 27.62	151.99
27 11 16 00-0079 EA 96" Height, 23" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48383-X15) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	887.74 28.95	154.41
27 11 16 00-0080 EA 102" Height, 23" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48383-X17) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	915.10 30.07	156.81
27 11 16 00-0081 EA 108" Height, 23" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48383-X08) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	921.11 30.13	159.23
27 11 16 00-0082 4-Post Equipment Racks And Server Frames (27 11 16 00-0022)		
27 11 16 00-0083 4-Post Equipment Racks (27 11 16 00-0082)		
27 11 16 00-0084 EA 19" Width, 29" Depth, 84" Height, 4-Post Equipment Rack (Chatsworth 50120-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,311.86 41.47	241.25
27 11 16 00-0085 EA 19" Width, 29" Depth, 96" Height, 4-Post Equipment Rack (Chatsworth 50120-X15)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,431.81 46.50	250.90
27 11 16 00-0086 EA 19" Width, 29" Depth, 108" Height, 4-Post Equipment Rack (Chatsworth 50120-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,544.99 51.19	260.55
27 11 16 00-0087 4-Post Server Frame (27 11 16 00-0082)		
27 11 16 00-0088 EA 19" Width, 29" Depth, 84" Height, Server Frame (Chatsworth 15053-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,348.34 43.29	241.25
27 11 16 00-0089 Cable Managers (27 11 16 00-0021)		
27 11 16 00-0090 Horizontal Cable Managers (27 11 16 00-0089)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0091 Single-Sided, Horizontal Cable Managers <small>(27 11 16 00-0090)</small>		
27 11 16 00-0092 EA 1U Height, 19" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-719)	75.74	9.65
27 11 16 00-0093 EA 1U Height, 23" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-723)	84.30	9.65
27 11 16 00-0094 EA 1U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-701)	63.29	9.65
27 11 16 00-0095 EA 2U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-719)	77.03	9.65
27 11 16 00-0096 EA 2U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-723)	90.29	9.65
27 11 16 00-0097 EA 2U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-702)	70.06	9.65
27 11 16 00-0098 EA 3U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-719)	103.73	9.65
27 11 16 00-0099 EA 3U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-723)	118.03	9.65
27 11 16 00-0100 EA 3U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-703)	83.60	9.65
27 11 16 00-0101 Double-Sided, Horizontal Cable Managers <small>(27 11 16 00-0090)</small>		
27 11 16 00-0102 EA 1U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-719)	93.99	9.65
27 11 16 00-0103 EA 1U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-723)	105.27	9.65
27 11 16 00-0104 EA 2U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-719)	98.88	9.65
27 11 16 00-0105 EA 2U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-723)	115.04	9.65
27 11 16 00-0106 EA 3U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-719)	127.85	9.65
27 11 16 00-0107 EA 3U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-723)	143.13	9.65
27 11 16 00-0108 Vertical Cable Managers <small>(27 11 16 00-0089)</small>		
27 11 16 00-0109 Single-Sided, Vertical Cable Managers <small>(27 11 16 00-0108)</small>		
27 11 16 00-0110 EA 3.6" Width, 9.7" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-701)	169.39	14.48
27 11 16 00-0111 EA 6" Width, 9.8" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-701)	238.76	14.48
27 11 16 00-0112 EA 10" Width, 10.3" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-701)	384.28	14.48
27 11 16 00-0113 EA 12" Width, 10.4" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-701)	435.04	14.48
27 11 16 00-0114 EA 3.6" Width, 9.7" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-703)	181.23	14.48
27 11 16 00-0115 EA 6" Width, 9.8" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-703)	257.37	14.48
27 11 16 00-0116 EA 10" Width, 10.3" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-703)	418.12	14.48
27 11 16 00-0117 EA 12" Width, 10.4" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-703)	468.88	14.48
27 11 16 00-0118 EA 3.6" Width, 9.7" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-715)	204.92	14.48
27 11 16 00-0119 EA 6" Width, 9.8" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-715)	282.75	14.48
27 11 16 00-0120 EA 10" Width, 10.3" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-715)	468.88	14.48
27 11 16 00-0121 EA 12" Width, 10.4" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-715)	519.64	14.48
27 11 16 00-0122 Double-Sided, Vertical Cable Managers <small>(27 11 16 00-0108)</small>		
27 11 16 00-0123 EA 3.6" Width, 16.4" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-701)	245.53	14.48
27 11 16 00-0124 EA 6" Width, 16.6" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-701)	289.52	14.48
27 11 16 00-0125 EA 10" Width, 17.5" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-701)	468.88	14.48
27 11 16 00-0126 EA 12" Width, 17.8" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-701)	553.48	14.48
27 11 16 00-0127 EA 3.6" Width, 16.4" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-703)	265.83	14.48
27 11 16 00-0128 EA 6" Width, 16.6" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-703)	309.83	14.48
27 11 16 00-0129 EA 10" Width, 17.5" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-703)	502.72	14.48
27 11 16 00-0130 EA 12" Width, 17.8" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-703)	587.32	14.48
27 11 16 00-0131 EA 3.6" Width, 16.4" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-715)	292.91	14.48
27 11 16 00-0132 EA 6" Width, 16.6" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-715)	336.90	14.48
27 11 16 00-0133 EA 10" Width, 17.5" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-715)	553.48	14.48
27 11 16 00-0134 EA 12" Width, 17.8" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-715)	638.08	14.48
27 11 16 00-0135 Accessories For Vertical Cable Managers <small>(27 11 16 00-0108)</small>		
27 11 16 00-0136 EA Cable Ring Kit For 3.6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-716)	103.90	9.65
27 11 16 00-0137 EA Cable Ring Kit For 3.6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-717)	110.67	9.65
27 11 16 00-0138 EA Cable Ring Kit For 3.6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-718)	117.44	9.65
27 11 16 00-0139 EA Cable Ring Kit For 6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-726)	107.29	9.65
27 11 16 00-0140 EA Cable Ring Kit For 6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-727)	117.44	9.65
27 11 16 00-0141 EA Cable Ring Kit For 6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-728)	127.59	9.65
27 11 16 00-0142 EA Cable Ring Kit For 10" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-746)	120.82	9.65
27 11 16 00-0143 EA Cable Ring Kit For 10" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-747)	130.97	9.65
27 11 16 00-0144 EA Cable Ring Kit For 10" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-748)	141.13	9.65
27 11 16 00-0145 EA Cable Ring Kit For 12" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-756)	127.59	9.65
27 11 16 00-0146 EA Cable Ring Kit For 12" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-757)	141.13	9.65
27 11 16 00-0147 EA Cable Ring Kit For 12" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-758)	151.28	9.65
27 11 16 00-0148 EA Cable Lashing Bar Kit For Vertical Cable Managers (Chatsworth 13928-001)	86.98	9.65
27 11 16 00-0149 EA Cable Spool Kit For Vertical Cable Managers (Chatsworth 13935-701)	100.52	9.65
27 11 16 00-0150 EA Cable Distribution Spools For Vertical Cable Managers (Chatsworth 15008-001)	105.09	9.65
27 11 16 00-0151 EA Cable Distribution Spool Spacer Kit For Vertical Cable Managers (Chatsworth 35505-001)	66.68	9.65
27 11 19 Communications Termination Blocks And Patch Panels <small>(27 11)</small>		
Note: The terminating, testing, and labeling of the cables in question should be done according to the task description as well as the current contract specifications. See CSI section 27 14 43 00-0074 for labeling.		
27 11 19 00-0001 Computer Network Components <small>(27 11 19)</small>		
27 11 19 00-0002 Ethernet Patch Panels <small>(27 11 19 00-0001)</small>		
27 11 19 00-0003 EA 12 Port, Category 5E Patch Panel	196.34	48.25
27 11 19 00-0004 EA 24 Port, Category 5E Patch Panel	281.52	48.25

27	Communications
27 10	Structured Cabling
27 11	Communications Equipment Room Fittings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0005 EA 32 Port, Category 5E Patch Panel	362.12	48.25
27 11 19 00-0006 EA 48 Port, Category 5E Patch Panel	437.22	48.25
27 11 19 00-0007 EA 64 Port, Category 5E Patch Panel	583.88	60.32
27 11 19 00-0008 EA 96 Port, Category 5E Patch Panel	800.53	72.38
27 11 19 00-0009 EA 12 Port, Category 6 Patch Panel.....	237.56	48.25
27 11 19 00-0010 EA 24 Port, Category 6 Patch Panel.....	287.02	48.25
27 11 19 00-0011 EA 48 Port, Category 6 Patch Panel.....	477.52	48.25
27 11 19 00-0012 EA 96 Port, Category 6 Patch Panel.....	877.47	72.38
27 11 19 00-0013 EA 16" x 12" x 8" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161208LP)	468.27	72.38
27 11 19 00-0014 EA 16" x 16" x 6" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161606LP)	495.88	72.38
27 11 19 00-0015 EA 12 Port, Category 6 Modular to 110 Mini Patch Panel (Ortronics-Legrand OR-PMP61289).....	204.57	48.25
27 11 19 00-0016 EA Terminate One End Of A 4 Pair Cable To Category "X" Specifications	34.20	
For >5 To 10 Cables, Deduct	-6.16	
For >10 Cables, Deduct	-13.68	
27 11 19 00-0017 EA Terminate One End Of A Twisted Pair Of Wires	9.40	
Note: Per each pair		
For >20 To 40 Pairs, Deduct	-1.50	
For >40 Pairs, Deduct	-3.57	
27 11 19 00-0018 Fiber Optic Cable Patch Panels And Enclosures (27 11 19 00-0001)		
27 11 19 00-0019 Fiber Optic Cable Connector Housings (27 11 19 00-0018)		
27 11 19 00-0020 Wall Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0019)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0021 EA 1-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	104.62	21.71
27 11 19 00-0022 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	152.25	21.71
27 11 19 00-0023 EA 4-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	222.72	21.71
27 11 19 00-0024 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	330.16	36.19
27 11 19 00-0025 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	455.63	36.19
27 11 19 00-0026 Rack Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0019)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0027 EA 2-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	343.02	36.19
27 11 19 00-0028 EA 4-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	390.86	36.19
27 11 19 00-0029 EA 6-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	420.12	36.19
27 11 19 00-0030 EA 12-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	490.82	36.19
27 11 19 00-0031 Rack Mount, Fiber Optic Cable Pretium® Connector Housings (27 11 19 00-0019)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0032 EA 2-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	425.01	36.19
For Splice Tray Bracket, Add	44.26	
27 11 19 00-0033 EA 4-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	496.16	36.19
For Splice Tray Bracket, Add	48.40	
27 11 19 00-0034 EA 12-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	616.08	36.19
For Splice Tray Bracket, Add	176.32	
27 11 19 00-0035 Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housings (27 11 19 00-0019)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0036 EA 8 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	536.66	36.19
27 11 19 00-0037 EA 12 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	683.39	36.19
27 11 19 00-0038 EA 24 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	772.33	36.19
27 11 19 00-0039 EA 48 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	999.18	36.19
27 11 19 00-0040 Wall Mount, Fiber Optic Cable Industrial Connector Housings (27 11 19 00-0019)		
Note: Includes powder-coat finish, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0041 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing	476.19	21.71
27 11 19 00-0042 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing	660.42	36.19
27 11 19 00-0043 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing	692.55	36.19
27 11 19 00-0044 Wall Mount, Fiber Optic Cable Environmental Connector Housings (27 11 19 00-0019)		
Note: Includes NEMA 4X enclosure, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0045 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing.....	498.39	21.71
27 11 19 00-0046 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing.....	660.03	36.19
27 11 19 00-0047 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing.....	773.69	36.19
27 11 19 00-0048 Fiber Optic Cable Connector Panels (27 11 19 00-0018)		
27 11 19 00-0049 SC Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0050 EA 6-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	66.05	4.83
27 11 19 00-0051 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	71.57	4.83
27 11 19 00-0052 EA 8-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	80.12	4.83
27 11 19 00-0053 EA 8-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	87.47	4.83
27 11 19 00-0054 EA 12-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	108.29	4.83
27 11 19 00-0055 EA 12-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	119.29	4.83
27 11 19 00-0056 SC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0057 EA 6-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	63.61	4.83
27 11 19 00-0058 EA 6-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	64.91	4.83
27 11 19 00-0059 EA 8-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	76.89	4.83
27 11 19 00-0060 EA 8-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	78.61	4.83
27 11 19 00-0061 EA 12-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	103.44	4.83
27 11 19 00-0062 EA 12-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	106.00	4.83
27 11 19 00-0063 LC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0064 EA 6-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	68.59	4.83
27 11 19 00-0065 EA 6-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	75.08	4.83
27 11 19 00-0066 EA 8-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	83.50	4.83
27 11 19 00-0067 EA 8-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	92.17	4.83
27 11 19 00-0068 EA 12-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	113.37	4.83
27 11 19 00-0069 EA 12-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	126.35	4.83
27 11 19 00-0070 EA 16-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	143.22	4.83
27 11 19 00-0071 EA 16-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	160.52	4.83
27 11 19 00-0072 EA 24-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	202.91	4.83
27 11 19 00-0073 EA 24-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	208.94	4.83
27 11 19 00-0074 ST Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0075 EA 6-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	55.13	4.83
27 11 19 00-0076 EA 6-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	59.30	4.83
27 11 19 00-0077 EA 8-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	65.57	4.83
27 11 19 00-0078 EA 8-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	71.14	4.83
27 11 19 00-0079 EA 12-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	86.44	4.83
27 11 19 00-0080 EA 12-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	94.80	4.83
27 11 19 00-0081 MT-RJ, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0082 EA 12-Fiber, Multimode, MT-RJ, Fiber Optic Cable Connector Panel.....	68.20	4.83
27 11 19 00-0083 EA 12-Fiber, Singlemode, MT-RJ, Fiber Optic Cable Connector Panel.....	101.37	4.83
27 11 19 00-0084 Fiber Optic Cable Pretium Edge® Modules (27 11 19 00-0048)		
27 11 19 00-0085 EA 12-Fiber, Singlemode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module.....	576.87	4.83
27 11 19 00-0086 EA 12-Fiber, Multimode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module.....	578.86	4.83
27 11 19 00-0087 Fiber Optic Cable Splice Housings (27 11 19 00-0018)		
27 11 19 00-0088 Wall Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0087)		
Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0089 EA 12 Splice Tray Capacity, Wall Mount, Fiber Optic Splice Housing With Locking Door.....	244.28	48.25
27 11 19 00-0090 Rack Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0087)		
Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0091 EA 12 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing.....	355.45	36.19
27 11 19 00-0092 EA 22 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing.....	360.63	36.19
27 11 19 00-0093 Fiber Optic Cable Splice Trays (27 11 19 00-0087)		
27 11 19 00-0094 EA Fiber Optic Cable Splice Tray.....	69.35	12.06
27 11 19 00-0095 Fiber Optic Cable Jumper Management Panels (27 11 19 00-0018)		
Note: Includes mounting hardware.		
27 11 19 00-0096 EA Rack Mount, Fiber Optic Cable Jumper Management Panel.....	138.44	36.19
27 11 19 00-0097 Miscellaneous Accessories (27 11 19 00-0001)		
27 11 19 00-0098 EA Wall Mount Bracket For 12 Or 24 Port Patch Panel.....	50.93	
27 11 19 00-0099 EA Wall Mount Bracket For 32 Or 48 Port Patch Panel.....	67.38	
27 11 19 00-0100 EA Wall Mount Bracket For 64 Or 72 Port Patch Panel.....	73.87	
27 11 19 00-0101 EA Wall Mount Bracket For 96 Port Patch Panel.....	82.46	
27 11 19 00-0102 EA Lightning Protection Plus Stainless Steel Modules, Siemon.....	321.09	48.25
27 11 19 00-0103 Telephone Components (27 11 19)		

27	Communications
27 10	Structured Cabling
27 11	Communications Equipment Room Fittings



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 11 19 00-0104	Terminal Blocks With Wide Range Of 22-8 AWG (27 11 19 00-0103)		
27 11 19 00-0105	EA Terminal Block, Circuit Isolation Switch With Wire Range 22-8 AWG.....	26.07	9.66
27 11 19 00-0106	EA Terminal Block, Fuse Holder 600 Volt, 6.3 Amp With Wire Range 22-8 AWG.....	44.49	9.66
27 11 19 00-0107	EA Terminal Block, Fuse Holder 600 Volt, 10 Amp With Wire Range 22-8 AWG.....	36.95	9.66
27 11 19 00-0108	EA Terminal Block, Solderless Box With Lugs And Wire Range 22-8 AWG.....	20.96	9.66
27 11 19 00-0109	EA Flat Terminal Block Connection With Wire Range 22-8 AWG.....	14.93	6.76
27 11 19 00-0110	EA Ground Terminal Block With Wire Range 22-8 AWG.....	26.86	9.66
27 11 19 00-0111	EA Terminal Block, Solderless Box With Lug 600 Volt, 60 Amp With Wire Range 22-8 AWG.....	20.96	9.66
27 11 19 00-0112	EA Terminal Block, Mini Box Lug 300 Volt, 30 Amp With Wire Range 22-8 AWG.....	14.82	6.76
27 11 19 00-0113	EA Flat Terminal Block Connection 300 Volt, 20 Amp With Wire Range 22-8 AWG.....	14.74	6.76
27 11 19 00-0114	EA Self Lifting Terminal Block, 300 Volt, 40 Amp Wire Connection With Wire Range 22-12 AWG.....	15.10	6.76

27 11 19 00-0115	Terminal Block Mounting Channel (27 11 19 00-0103)		
27 11 19 00-0116	EA Terminal Block Mounting Channel, .5 M Galvanized Steel.....	13.61	4.84
27 11 19 00-0117	EA Terminal Block Mounting Channel, 1 M Galvanized Steel.....	16.85	4.84
27 11 19 00-0118	EA Terminal Block Mounting Channel, 2 M Galvanized Steel.....	22.45	4.84
27 11 19 00-0119	EA Terminal Block Mounting Channel, .5 M Bi-Chrome Zinc.....	17.04	5.80
27 11 19 00-0120	EA Terminal Block Mounting Channel, 1 M Bi-Chrome Zinc.....	22.37	5.80
27 11 19 00-0121	EA Terminal Block Mounting Channel, 2 M Bi-Chrome Zinc.....	30.98	5.80

27 11 19 00-0122	Outlet Termination Hardware (27 11 19 00-0103)		
27 11 19 00-0123	EA Telephone Outlet Blocks.....	23.59	4.84
27 11 19 00-0124	EA Phone Outlet Block For Floor Box..... Note: Excludes box.	79.14	36.67
27 11 19 00-0125	EA Fiber Optic "SC" Type Modular Bulkhead.....	63.40	21.71
27 11 19 00-0126	EA Fiber Optic "ST" Type Modular Bulkhead.....	63.40	21.71
27 11 19 00-0127	EA Type "F" Coaxial Connector Male.....	38.12	14.48
27 11 19 00-0128	EA Modular Plate For 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	90.70	24.13
27 11 19 00-0129	EA Modular Plate For 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	90.70	24.13
27 11 19 00-0130	EA Access Floor Box With 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	106.51	24.13
27 11 19 00-0131	EA Access Floor Box With 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	106.51	24.13
27 11 19 00-0132	EA Access Floor Box With 2-RJ-45, 4 - "SC" And 1 -25 Pin Connector.....	98.19	24.13
27 11 19 00-0133	EA Terminal Type - Punch Down Block 110 Type - 300 Pair Category 5.....	800.57	120.63
27 11 19 00-0134	EA Wiring (Punch Down) Block with Stand-Off Legs, 100 Pair, Category V..... Note: Excludes cable terminations.	43.34	9.65
27 11 19 00-0135	EA Connecting Block, 5-Pair.....	2.72	0.96
27 11 19 00-0136	EA Connecting Block, 4-Pair.....	2.90	0.96
27 11 19 00-0137	EA Plastic Label Holder, Transparent.....	11.16	2.41
27 11 19 00-0138	EA Marked Label, White, 5-Pair.....	3.16	
27 11 19 00-0139	EA Marked Label, Blue, 4-Pair.....	3.16	

27 11 19 00-0140	Terminations in Manhole or Junction Box (27 11 19 00-0103)		
27 11 19 00-0141	EA 25 Pair Cable Termination In Manhole Or Junction Box.....	154.41	
27 11 19 00-0142	EA 50 Pair Cable Termination In Manhole Or Junction Box.....	308.80	
27 11 19 00-0143	EA 100 Pair Cable Termination In Manhole Or Junction Box.....	617.61	
27 11 19 00-0144	EA 150 Pair Cable Termination In Manhole Or Junction Box.....	926.41	
27 11 19 00-0145	EA 200 Pair Cable Termination In Manhole Or Junction Box.....	1,083.71	
27 11 19 00-0146	EA 300 Pair Cable Termination In Manhole Or Junction Box.....	1,625.09	
27 11 19 00-0147	EA 400 Pair Cable Termination In Manhole Or Junction Box.....	2,043.91	
27 11 19 00-0148	EA 500 Pair Cable Termination In Manhole Or Junction Box.....	2,555.36	
27 11 19 00-0149	EA 750 Pair Cable Termination In Manhole Or Junction Box.....	3,833.02	
27 11 19 00-0150	EA 1,000 Pair Cable Termination In Manhole Or Junction Box.....	4,648.44	
27 11 19 00-0151	EA 1,200 Pair Cable Termination In Manhole Or Junction Box.....	5,297.98	

27 11 23 Communications Cable Management and Ladder Rack (27 11)

27 11 23 00-0001	Equipment Supports (27 11 23)		
27 11 23 00-0002	EA Environmental Enclosure, NEMA 4x SS, 6' Free Standing.....	17,178.81	760.40
27 11 23 00-0003	EA DVR Enclosure.....	1,286.31	190.08
27 11 23 00-0004	EA Wall Mount Type 4X Enclosure 24.00x30.00x8.00 Stainless Steel Type 316.....	4,568.14	380.17
27 11 23 00-0005	EA Panel, NEMA 12/27.00x21.00.....	368.64	95.04
27 11 23 00-0006	EA Panel, NEMA 12/8.75x6.88.....	112.43	95.04
27 11 23 00-0007	EA Clamp Assembly, Fast Opening, Stainless Steel Type 304.....	140.27	95.04
27 11 23 00-0008	EA Wall-Mount Type 4x Enclosure 24.00x30.00x8.00 Stainless Steel Type 316.....	3,902.85	95.04
27 11 23 00-0009	EA 12" x 5'-11" Tubular Runway.....	81.89	23.16
27 11 23 00-0010	EA 12" x 9'-11" Tubular Runway.....	141.35	38.60
27 11 23 00-0011	EA Shelf Bracket Support For Tubular Runway.....	26.04	7.23
27 11 23 00-0012	EA Straight Clamp Hardware For Tubular Runway.....	12.04	4.83
27 11 23 00-0013	EA Corner Clamp Hardware For Tubular Runway.....	12.63	4.83
27 11 23 00-0014	EA 90 Degree Edge Clamp Hardware For Tubular Runway.....	27.75	8.69
27 11 23 00-0015	EA Wall Angle Assembly Hardware For 12" Wide Tubular Runway.....	56.99	14.48
27 11 23 00-0016	EA J-Bolt Hardware For Tubular Runway.....	5.54	2.12
27 11 23 00-0017	EA T Bracket Hardware For Tubular Runway.....	30.41	12.06
27 11 23 00-0018	EA 110 Jumper Trough (Commscope 107831133).....	27.35	4.83
27 11 23 00-0019	LF Velcro CMP.....	2.29	0.96



Communications	27	
Structured Cabling	27 10	27
Communications Equipment Room Fittings	27 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 14 Communications Cabling (27 10)

27 14 13 Communications Copper Cabling (27 14)

27 14 13 13 Communications Copper Cable Splicing and Terminations (27 14 13)

27 14 13 13-0001 Building Entrance Terminals (27 14 13 13)

27 14 13 13-0002	EA	25 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	1,597.81	211.74
27 14 13 13-0003	EA	50 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	2,178.49	352.89
27 14 13 13-0004	EA	100 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	3,130.32	565.07

27 14 13 13-0005 Modular Plugs For Copper Communications Cable (27 14 13 13)

27 14 13 13-0006	EA	Modular Plug For Non-Shielded Copper Communications Cable.....	21.57	
		Note: Up to 8-position/8-contact non-shielded modular plug for solid or stranded wire. Includes termination.		
		<i>For >5 To 10, Deduct</i>	-2.89	
		<i>For >10, Deduct</i>	-5.78	
27 14 13 13-0007	EA	Modular Plug For Shielded Copper Communications Cable.....	24.46	
		Note: Up to 8-position/8-contact shielded modular plug for solid or stranded wire. Includes termination.		
		<i>For >5 To 10, Deduct</i>	-3.25	
		<i>For >10, Deduct</i>	-6.50	

27 14 13 13-0008 Testing And Certification Of Copper Communications Cable (27 14 13 13)

		Note: Use for existing systems.		
27 14 13 13-0009	EA	Test 1-Pair Of A Copper Communications Cable For Continuity.....	4.83	
		<i>For >25-Pair, Deduct</i>	-1.93	
27 14 13 13-0010	EA	Certify 1-Pair Of A Copper Communications Cable.....	7.23	
		<i>For >25-Pair, Deduct</i>	-2.89	
27 14 13 13-0011	EA	Certify And Document 1-Pair Of A Copper Communications Cable.....	11.58	
		<i>For >25-Pair, Deduct</i>	-4.62	
27 14 13 13-0012	EA	Test 4-Pair Cat 5-7 Telecommunications Cable For Continuity.....	19.30	
		<i>For >25-Pair, Deduct</i>	-7.70	
27 14 13 13-0013	EA	Certify 4-Pair Cat 5-7 Telecommunications Cable.....	28.95	
		<i>For >25-Pair, Deduct</i>	-11.56	
27 14 13 13-0014	EA	Certify And Document 4-Pair Cat 5-7 Telecommunications Cable.....	46.32	
		<i>For >25-Pair, Deduct</i>	-18.49	

27 14 13 13-0015 Communications Termination Blocks (27 14 13 13)

27 14 13 13-0016	EA	100-Pair, 110 Block With Legs.....	41.31	12.06
27 14 13 13-0017	EA	300-Pair, 110 Block With Legs.....	66.30	12.06
27 14 13 13-0018	EA	Clear Label Holder For 110 Wiring Block.....	10.14	4.83
27 14 13 13-0019	EA	4-Pair, 110C Connecting Block.....	5.59	2.41
27 14 13 13-0020	EA	5-Pair, 110C Connecting Block.....	5.68	2.41
27 14 13 13-0021	EA	100-Pair, 110 Jack Panel System.....	201.12	14.48
		Note: Includes twelve 8-pin modular jacks and mounting legs.		
27 14 13 13-0022	EA	300-Pair, 110 Jack Panel System.....	466.44	14.48
		Note: Includes twelve 8-pin modular jacks and mounting legs.		

27 14 13 16 Communications Copper Cabling (27 14 13)

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.

27 14 13 16-0001 Solid Conductor Low Voltage Cable (27 14 13 16)

27 14 13 16-0002 Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 14 13 16-0001)

27 14 13 16-0003 #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 14 13 16-0002)

27 14 13 16-0004	MLF	1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,988.19	873.41
		<i>For #10 AWG, Add</i>	466.85	
		<i>For Work In Restricted Working Space, Add</i>	436.74	
27 14 13 16-0005	MLF	2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,490.03	904.29
		<i>For #10 AWG, Add</i>	625.72	
		<i>For Work In Restricted Working Space, Add</i>	452.28	
27 14 13 16-0006	MLF	3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,928.37	936.05
		<i>For #10 AWG, Add</i>	763.61	
		<i>For Work In Restricted Working Space, Add</i>	467.89	
27 14 13 16-0007	MLF	4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,392.83	967.81
		<i>For #10 AWG, Add</i>	909.88	
		<i>For Work In Restricted Working Space, Add</i>	484.05	
27 14 13 16-0008	MLF	5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,887.95	1,033.09
		<i>For #10 AWG, Add</i>	1,059.12	
		<i>For Work In Restricted Working Space, Add</i>	516.70	

27	Communications
27 10	Structured Cabling
27 14	Communications Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0009 MLF 6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,337.81	1,097.49
For #10 AWG, Add	1,193.63	
For Work In Restricted Working Space, Add	548.89	
27 14 13 16-0010 MLF 8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,687.64	1,228.06
For #10 AWG, Add	1,280.89	
For Work In Restricted Working Space, Add	613.92	
27 14 13 16-0011 MLF 12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,219.29	1,618.89
For #10 AWG, Add	1,701.68	
For Work In Restricted Working Space, Add	809.29	
27 14 13 16-0012 MLF 24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,266.21	2,390.84
For #10 AWG, Add	2,539.97	
For Work In Restricted Working Space, Add	1,195.11	
27 14 13 16-0013 #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 14 13 16-0002)		
27 14 13 16-0014 MLF 1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,781.74	764.01
For Work In Restricted Working Space, Add	381.92	
27 14 13 16-0015 MLF 2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,257.61	791.36
For Work In Restricted Working Space, Add	395.68	
27 14 13 16-0016 MLF 3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,672.60	818.71
For Work In Restricted Working Space, Add	409.44	
27 14 13 16-0017 MLF 4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,111.68	846.94
For Work In Restricted Working Space, Add	423.47	
27 14 13 16-0018 MLF 5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,576.04	904.29
For Work In Restricted Working Space, Add	452.06	
27 14 13 16-0019 MLF 6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,996.84	960.75
For Work In Restricted Working Space, Add	480.11	
27 14 13 16-0020 MLF 8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,314.55	1,074.55
For Work In Restricted Working Space, Add	537.28	
27 14 13 16-0021 MLF 12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,724.80	1,415.97
For Work In Restricted Working Space, Add	707.99	
27 14 13 16-0022 MLF 24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,533.82	2,091.77
For Work In Restricted Working Space, Add	1,045.97	
27 14 13 16-0023 #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 14 13 16-0002)		
27 14 13 16-0024 MLF 1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,585.13	681.96
For Work In Restricted Working Space, Add	341.16	
27 14 13 16-0025 MLF 2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,896.56	706.67
For Work In Restricted Working Space, Add	353.33	
27 14 13 16-0026 MLF 3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,370.00	731.36
For Work In Restricted Working Space, Add	365.51	
27 14 13 16-0027 MLF 4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,757.81	756.07
For Work In Restricted Working Space, Add	378.21	
27 14 13 16-0028 MLF 5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,167.53	807.24
For Work In Restricted Working Space, Add	403.62	
27 14 13 16-0029 MLF 6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,539.55	857.52
For Work In Restricted Working Space, Add	428.76	
27 14 13 16-0030 MLF 7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,680.22	908.70
For Work In Restricted Working Space, Add	454.17	
27 14 13 16-0031 MLF 8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,821.79	959.87
For Work In Restricted Working Space, Add	479.84	
27 14 13 16-0032 MLF 9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,293.62	1,020.74
For Work In Restricted Working Space, Add	510.28	
27 14 13 16-0033 MLF 12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,070.28	1,264.23
For Work In Restricted Working Space, Add	632.16	
27 14 13 16-0034 MLF 24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,557.56	1,867.68
For Work In Restricted Working Space, Add	933.88	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0035				#18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 14 13 16-0002)</small>		
27 14 13 16-0036	MLF			1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,316.74	600.80
				<i>For Work In Restricted Working Space, Add</i>	300.14	
27 14 13 16-0037	MLF			2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,620.28	621.97
				<i>For Work In Restricted Working Space, Add</i>	310.99	
27 14 13 16-0038	MLF			3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,885.95	643.15
				<i>For Work In Restricted Working Space, Add</i>	321.84	
27 14 13 16-0039	MLF			4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,166.06	665.20
				<i>For Work In Restricted Working Space, Add</i>	332.69	
27 14 13 16-0040	MLF			5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,470.54	710.20
				<i>For Work In Restricted Working Space, Add</i>	355.19	
27 14 13 16-0041	MLF			6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,748.16	754.30
				<i>For Work In Restricted Working Space, Add</i>	377.42	
27 14 13 16-0042	MLF			8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,976.31	844.29
				<i>For Work In Restricted Working Space, Add</i>	422.15	
27 14 13 16-0043	MLF			12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,946.65	1,112.49
				<i>For Work In Restricted Working Space, Add</i>	556.33	
27 14 13 16-0044	MLF			24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,877.62	1,643.59
				<i>For Work In Restricted Working Space, Add</i>	821.79	
27 14 13 16-0045				#20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 14 13 16-0002)</small>		
27 14 13 16-0046	MLF			1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,152.64	546.10
				<i>For Work In Restricted Working Space, Add</i>	272.87	
27 14 13 16-0047	MLF			2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,392.08	565.51
				<i>For Work In Restricted Working Space, Add</i>	282.67	
27 14 13 16-0048	MLF			3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,599.76	585.36
				<i>For Work In Restricted Working Space, Add</i>	292.46	
27 14 13 16-0049	MLF			4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,818.51	605.21
				<i>For Work In Restricted Working Space, Add</i>	302.52	
27 14 13 16-0050	MLF			5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,064.59	645.80
				<i>For Work In Restricted Working Space, Add</i>	322.76	
27 14 13 16-0051	MLF			6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,288.47	686.37
				<i>For Work In Restricted Working Space, Add</i>	343.01	
27 14 13 16-0052	MLF			8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,502.64	767.53
				<i>For Work In Restricted Working Space, Add</i>	383.77	
27 14 13 16-0053	MLF			12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,293.76	1,011.91
				<i>For Work In Restricted Working Space, Add</i>	505.78	
27 14 13 16-0054	MLF			24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,902.26	1,494.50
				<i>For Work In Restricted Working Space, Add</i>	747.16	
27 14 13 16-0055	MLF			25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,233.54	1,529.79
				<i>For Work In Restricted Working Space, Add</i>	764.89	
27 14 13 16-0056	MLF			36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,257.44	1,781.22
				<i>For Work In Restricted Working Space, Add</i>	890.61	
27 14 13 16-0057	MLF			40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,715.99	1,906.50
				<i>For Work In Restricted Working Space, Add</i>	953.33	
27 14 13 16-0058	MLF			50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,977.84	2,382.90
				<i>For Work In Restricted Working Space, Add</i>	1,191.27	
27 14 13 16-0059	MLF			100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,898.28	3,137.20
				<i>For Work In Restricted Working Space, Add</i>	1,568.42	
27 14 13 16-0060				#22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 14 13 16-0002)</small>		
27 14 13 16-0061	MLF			1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	945.86	491.40
				<i>For Work In Restricted Working Space, Add</i>	245.61	

27	Communications
27 10	Structured Cabling
27 14	Communications Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0062 MLF 2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,021.82	509.04
<i>For Work In Restricted Working Space, Add</i>	254.35	
27 14 13 16-0063 MLF 3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,116.52	526.69
<i>For Work In Restricted Working Space, Add</i>	263.35	
27 14 13 16-0064 MLF 4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,220.11	544.33
<i>For Work In Restricted Working Space, Add</i>	272.34	
27 14 13 16-0065 MLF 5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,369.33	581.39
<i>For Work In Restricted Working Space, Add</i>	290.61	
27 14 13 16-0066 MLF 6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,521.15	615.80
<i>For Work In Restricted Working Space, Add</i>	308.08	
27 14 13 16-0067 Triad <small>(27 14 13 16-0002)</small>		
27 14 13 16-0068 MLF 1 Triad #16 AWG, Stranded, Low Voltage, Installed In Conduit.....	1,688.48	731.36
27 14 13 16-0069 MLF 4 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	2,251.28	1,011.91
27 14 13 16-0070 MLF 8 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	3,442.68	1,494.50
27 14 13 16-0071 MLF 12 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	4,218.41	1,781.22
27 14 13 16-0072 MLF 24 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	6,771.14	2,759.61
27 14 13 16-0073 MLF 36 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	7,757.20	3,137.20
27 14 13 16-0074 Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 14 13 16-0001)</small>		
27 14 13 16-0075 #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 14 13 16-0074)</small>		
27 14 13 16-0076 MLF 1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,443.99	1,746.82
<i>For #10 AWG, Add</i>	758.01	
<i>For Work In Restricted Working Space, Add</i>	873.48	
27 14 13 16-0077 MLF 2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,997.61	1,808.57
<i>For #10 AWG, Add</i>	927.24	
<i>For Work In Restricted Working Space, Add</i>	904.55	
27 14 13 16-0078 MLF 3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,488.00	1,872.09
<i>For #10 AWG, Add</i>	1,075.54	
<i>For Work In Restricted Working Space, Add</i>	935.78	
27 14 13 16-0079 MLF 4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,006.34	1,935.61
<i>For #10 AWG, Add</i>	1,232.58	
<i>For Work In Restricted Working Space, Add</i>	968.10	
27 14 13 16-0080 MLF 5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,610.27	2,066.18
<i>For #10 AWG, Add</i>	1,403.59	
<i>For Work In Restricted Working Space, Add</i>	1,033.39	
27 14 13 16-0081 MLF 6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,167.46	2,194.98
<i>For #10 AWG, Add</i>	1,559.56	
<i>For Work In Restricted Working Space, Add</i>	1,097.78	
27 14 13 16-0082 MLF 8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,734.01	2,456.12
<i>For #10 AWG, Add</i>	1,690.16	
<i>For Work In Restricted Working Space, Add</i>	1,227.83	
27 14 13 16-0083 MLF 12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	8,916.92	3,237.78
<i>For #10 AWG, Add</i>	2,241.20	
<i>For Work In Restricted Working Space, Add</i>	1,618.58	
27 14 13 16-0084 MLF 24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	13,249.91	4,781.67
<i>For #10 AWG, Add</i>	3,336.71	
<i>For Work In Restricted Working Space, Add</i>	2,390.22	
27 14 13 16-0085 #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 14 13 16-0074)</small>		
27 14 13 16-0086 MLF 1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,054.79	1,528.02
<i>For Work In Restricted Working Space, Add</i>	763.83	
27 14 13 16-0087 MLF 2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,576.54	1,582.71
<i>For Work In Restricted Working Space, Add</i>	791.36	
27 14 13 16-0088 MLF 3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,037.40	1,637.41
<i>For Work In Restricted Working Space, Add</i>	818.88	
27 14 13 16-0089 MLF 4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,523.24	1,693.88
<i>For Work In Restricted Working Space, Add</i>	846.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0090 MLF 5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,082.88 904.11	1,808.57
27 14 13 16-0091 MLF 6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,597.20 960.22	1,921.49
27 14 13 16-0092 MLF 8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,105.47 1,074.55	2,149.11
27 14 13 16-0093 MLF 12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,084.75 1,415.97	2,831.95
27 14 13 16-0094 MLF 24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	12,020.39 2,091.94	4,183.52
27 14 13 16-0095 #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 14 13 16-0074)</small>		
27 14 13 16-0096 MLF 1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,722.33 682.32	1,363.92
27 14 13 16-0097 MLF 2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,074.34 706.67	1,413.33
27 14 13 16-0098 MLF 3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,588.36 731.02	1,462.74
27 14 13 16-0099 MLF 4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,018.51 756.42	1,512.14
27 14 13 16-0100 MLF 5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,512.93 807.24	1,614.47
27 14 13 16-0101 MLF 6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,968.76 857.53	1,715.05
27 14 13 16-0102 MLF 7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,194.13 908.34	1,817.39
27 14 13 16-0103 MLF 8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,421.27 959.69	1,919.73
27 14 13 16-0104 MLF 9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,994.56 1,020.56	2,041.48
27 14 13 16-0105 MLF 12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,177.48 1,264.32	2,528.47
27 14 13 16-0106 MLF 24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,670.50 1,867.76	3,735.35
27 14 13 16-0107 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 14 13 16-0074)</small>		
27 14 13 16-0108 MLF 1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,317.19 600.27	1,201.59
27 14 13 16-0109 MLF 2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,656.90 621.97	1,243.95
27 14 13 16-0110 MLF 3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,958.74 643.67	1,286.29
27 14 13 16-0111 MLF 4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,275.02 665.38	1,330.40
27 14 13 16-0112 MLF 5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,654.50 710.37	1,420.38
27 14 13 16-0113 MLF 6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,006.21 754.83	1,508.61
27 14 13 16-0114 MLF 8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,383.46 844.29	1,688.59
27 14 13 16-0115 MLF 12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,801.10 1,112.67	2,224.98
27 14 13 16-0116 MLF 24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,616.93 1,643.59	3,287.18

27	Communications
27 10	Structured Cabling
27 14	Communications Cabling



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0117			#20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 14 13 16-0074)		
27 14 13 16-0118	MLF		1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,062.21	1,092.20
			<i>For Work In Restricted Working Space, Add</i>	545.75	
27 14 13 16-0119	MLF		2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,334.30	1,131.02
			<i>For Work In Restricted Working Space, Add</i>	565.33	
27 14 13 16-0120	MLF		3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,574.62	1,170.71
			<i>For Work In Restricted Working Space, Add</i>	584.92	
27 14 13 16-0121	MLF		4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,826.89	1,210.42
			<i>For Work In Restricted Working Space, Add</i>	605.03	
27 14 13 16-0122	MLF		5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,140.48	1,291.58
			<i>For Work In Restricted Working Space, Add</i>	645.53	
27 14 13 16-0123	MLF		6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,431.85	1,372.75
			<i>For Work In Restricted Working Space, Add</i>	686.02	
27 14 13 16-0124	MLF		8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,781.88	1,535.08
			<i>For Work In Restricted Working Space, Add</i>	767.54	
27 14 13 16-0125	MLF		12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,979.70	2,023.84
			<i>For Work In Restricted Working Space, Add</i>	1,011.56	
27 14 13 16-0126	MLF		24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,392.77	2,988.99
			<i>For Work In Restricted Working Space, Add</i>	1,494.31	
27 14 13 16-0127	MLF		25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,783.16	3,059.57
			<i>For Work In Restricted Working Space, Add</i>	1,529.78	
27 14 13 16-0128	MLF		36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	9,226.14	3,562.44
			<i>For Work In Restricted Working Space, Add</i>	1,781.22	
27 14 13 16-0129	MLF		40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	9,893.78	3,812.99
			<i>For Work In Restricted Working Space, Add</i>	1,906.67	
27 14 13 16-0130	MLF		50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	11,948.74	4,765.80
			<i>For Work In Restricted Working Space, Add</i>	2,382.54	
27 14 13 16-0131	MLF		100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	16,126.32	6,274.41
			<i>For Work In Restricted Working Space, Add</i>	3,136.83	
27 14 13 16-0132			#22 AWG, Shielded, Low Voltage Cable, Installed Exposed (27 14 13 16-0074)		
27 14 13 16-0133	MLF		1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	1,764.56	982.80
			<i>For Work In Restricted Working Space, Add</i>	491.22	
27 14 13 16-0134	MLF		2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	1,869.64	1,018.09
			<i>For Work In Restricted Working Space, Add</i>	508.69	
27 14 13 16-0135	MLF		3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	1,994.33	1,053.38
			<i>For Work In Restricted Working Space, Add</i>	526.69	
27 14 13 16-0136	MLF		4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,127.93	1,088.67
			<i>For Work In Restricted Working Space, Add</i>	544.69	
27 14 13 16-0137	MLF		5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,338.02	1,162.78
			<i>For Work In Restricted Working Space, Add</i>	581.21	
27 14 13 16-0138	MLF		6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,548.06	1,231.59
			<i>For Work In Restricted Working Space, Add</i>	616.15	
27 14 13 16-0139			Triad, Installed Exposed (27 14 13 16-0074)		
27 14 13 16-0140	MLF		1 Triad #16 AWG, Stranded, Low Voltage, Placed In Conduit.....	1,688.48	731.36
27 14 13 16-0141	MLF		4 Triad #20 AWG, Stranded, Low Voltage, Placed In Conduit.....	2,251.28	1,011.91
27 14 13 16-0142	MLF		8 Triad #20 AWG, Stranded, Low Voltage, Placed In Conduit.....	3,442.68	1,494.50
27 14 13 16-0143	MLF		12 Triad #20 AWG, Stranded, Low Voltage, Placed In Conduit.....	4,218.41	1,781.22
27 14 13 16-0144	MLF		24 Triad #20 AWG, Stranded, Low Voltage, Placed In Conduit.....	6,771.14	2,759.61
27 14 13 16-0145	MLF		36 Triad #20 AWG, Stranded, Low Voltage, Placed In Conduit.....	7,757.20	3,137.20
27 14 13 16-0146			Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 14 13 16-0001)		
27 14 13 16-0147			#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 14 13 16-0146)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0148 MLF 1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,525.38	764.01
<i>For Work In Restricted Working Space, Add</i>	381.92	
27 14 13 16-0149 MLF 2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,784.55	791.36
<i>For Work In Restricted Working Space, Add</i>	395.68	
27 14 13 16-0150 MLF 3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,013.52	818.71
<i>For Work In Restricted Working Space, Add</i>	409.44	
27 14 13 16-0151 MLF 4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,254.88	846.94
<i>For Work In Restricted Working Space, Add</i>	423.47	
27 14 13 16-0152 MLF 5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,531.47	903.40
<i>For Work In Restricted Working Space, Add</i>	451.52	
27 14 13 16-0153 MLF 6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,788.22	959.87
<i>For Work In Restricted Working Space, Add</i>	479.84	
27 14 13 16-0154 MLF 8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,042.72	1,074.55
<i>For Work In Restricted Working Space, Add</i>	537.28	
27 14 13 16-0155 MLF 12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,029.03	1,415.97
<i>For Work In Restricted Working Space, Add</i>	707.99	
27 14 13 16-0156 MLF 24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,990.17	2,091.77
<i>For Work In Restricted Working Space, Add</i>	1,045.97	
27 14 13 16-0157 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 14 13 16-0146)</small>		
27 14 13 16-0158 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,359.38	681.96
<i>For Work In Restricted Working Space, Add</i>	341.16	
27 14 13 16-0159 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,587.80	706.67
<i>For Work In Restricted Working Space, Add</i>	353.33	
27 14 13 16-0160 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,789.61	731.36
<i>For Work In Restricted Working Space, Add</i>	365.51	
27 14 13 16-0161 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,003.32	756.07
<i>For Work In Restricted Working Space, Add</i>	378.21	
27 14 13 16-0162 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,248.36	806.36
<i>For Work In Restricted Working Space, Add</i>	403.36	
27 14 13 16-0163 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,476.01	857.52
<i>For Work In Restricted Working Space, Add</i>	428.76	
27 14 13 16-0164 MLF 7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,588.47	908.70
<i>For Work In Restricted Working Space, Add</i>	454.17	
27 14 13 16-0165 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,773.08	959.87
<i>For Work In Restricted Working Space, Add</i>	479.84	
27 14 13 16-0166 MLF 9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,070.03	1,020.74
<i>For Work In Restricted Working Space, Add</i>	510.25	
27 14 13 16-0167 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,576.99	1,264.23
<i>For Work In Restricted Working Space, Add</i>	632.16	
27 14 13 16-0168 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,318.06	1,867.68
<i>For Work In Restricted Working Space, Add</i>	934.01	
27 14 13 16-0169 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 14 13 16-0146)</small>		
27 14 13 16-0170 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,185.89	599.91
<i>For Work In Restricted Working Space, Add</i>	300.14	
27 14 13 16-0171 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,369.14	621.97
<i>For Work In Restricted Working Space, Add</i>	310.99	
27 14 13 16-0172 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,482.04	644.03
<i>For Work In Restricted Working Space, Add</i>	321.84	
27 14 13 16-0173 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,633.32	665.20
<i>For Work In Restricted Working Space, Add</i>	332.69	
27 14 13 16-0174 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,810.62	710.20
<i>For Work In Restricted Working Space, Add</i>	355.19	

27	Communications
27 10	Structured Cabling
27 14	Communications Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0175 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,987.04	755.19
<i>For Work In Restricted Working Space, Add</i>	377.42	
27 14 13 16-0176 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,404.72	844.29
<i>For Work In Restricted Working Space, Add</i>	422.15	
27 14 13 16-0177 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,119.82	1,112.49
<i>For Work In Restricted Working Space, Add</i>	556.33	
27 14 13 16-0178 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,121.37	1,643.59
<i>For Work In Restricted Working Space, Add</i>	821.79	
27 14 13 16-0179 #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 14 13 16-0148)		
27 14 13 16-0180 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,040.48	546.10
<i>For Work In Restricted Working Space, Add</i>	272.87	
27 14 13 16-0181 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,165.37	565.51
<i>For Work In Restricted Working Space, Add</i>	282.67	
27 14 13 16-0182 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,382.76	644.03
<i>For Work In Restricted Working Space, Add</i>	321.84	
27 14 13 16-0183 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,530.22	677.02
<i>For Work In Restricted Working Space, Add</i>	338.51	
27 14 13 16-0184 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,674.39	710.20
<i>For Work In Restricted Working Space, Add</i>	355.19	
27 14 13 16-0185 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,826.07	755.19
<i>For Work In Restricted Working Space, Add</i>	377.42	
27 14 13 16-0186 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,007.83	840.41
<i>For Work In Restricted Working Space, Add</i>	420.29	
27 14 13 16-0187 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,483.47	1,011.91
<i>For Work In Restricted Working Space, Add</i>	505.78	
27 14 13 16-0188 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,686.83	1,494.50
<i>For Work In Restricted Working Space, Add</i>	747.16	
27 14 13 16-0189 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,880.95	1,529.79
<i>For Work In Restricted Working Space, Add</i>	764.89	
27 14 13 16-0190 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,600.03	1,781.22
<i>For Work In Restricted Working Space, Add</i>	890.61	
27 14 13 16-0191 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,932.84	1,906.50
<i>For Work In Restricted Working Space, Add</i>	953.33	
27 14 13 16-0192 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,958.47	2,382.90
<i>For Work In Restricted Working Space, Add</i>	1,191.27	
27 14 13 16-0193 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,040.68	3,137.20
<i>For Work In Restricted Working Space, Add</i>	1,568.42	
27 14 13 16-0194 #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 14 13 16-0148)		
27 14 13 16-0195 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	905.50	491.40
<i>For Work In Restricted Working Space, Add</i>	245.61	
27 14 13 16-0196 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	966.58	509.04
<i>For Work In Restricted Working Space, Add</i>	254.35	
27 14 13 16-0197 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,046.67	526.69
<i>For Work In Restricted Working Space, Add</i>	263.35	
27 14 13 16-0198 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,134.19	544.33
<i>For Work In Restricted Working Space, Add</i>	272.34	
27 14 13 16-0199 MLF 5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,248.88	581.39
<i>For Work In Restricted Working Space, Add</i>	290.61	
27 14 13 16-0200 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,372.55	615.80
<i>For Work In Restricted Working Space, Add</i>	308.08	
27 14 13 16-0201 Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 14 13 16-0001)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0202 #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 14 13 16-0201)</small>						
27 14 13 16-0203	MLF	1	Pair	#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,798.43	1,528.02
				<i>For Work In Restricted Working Space, Add</i>	763.83	
27 14 13 16-0204	MLF	2	Pair	#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,103.48	1,582.71
				<i>For Work In Restricted Working Space, Add</i>	791.36	
27 14 13 16-0205	MLF	3	Pair	#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,378.32	1,637.41
				<i>For Work In Restricted Working Space, Add</i>	818.88	
27 14 13 16-0206	MLF	4	Pair	#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,666.44	1,693.88
				<i>For Work In Restricted Working Space, Add</i>	846.94	
27 14 13 16-0207	MLF	5	Pair	#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,036.55	1,806.81
				<i>For Work In Restricted Working Space, Add</i>	903.05	
27 14 13 16-0208	MLF	6	Pair	#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,387.70	1,919.73
				<i>For Work In Restricted Working Space, Add</i>	959.69	
27 14 13 16-0209	MLF	8	Pair	#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,833.64	2,149.11
				<i>For Work In Restricted Working Space, Add</i>	1,074.55	
27 14 13 16-0210	MLF	12	Pair	#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,388.98	2,831.95
				<i>For Work In Restricted Working Space, Add</i>	1,415.97	
27 14 13 16-0211	MLF	24	Pair	#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	9,476.74	4,183.52
				<i>For Work In Restricted Working Space, Add</i>	2,091.94	
27 14 13 16-0212 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 14 13 16-0201)</small>						
27 14 13 16-0213	MLF	1	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,496.58	1,363.92
				<i>For Work In Restricted Working Space, Add</i>	682.32	
27 14 13 16-0214	MLF	2	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,765.58	1,413.33
				<i>For Work In Restricted Working Space, Add</i>	706.67	
27 14 13 16-0215	MLF	3	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,007.97	1,462.74
				<i>For Work In Restricted Working Space, Add</i>	731.02	
27 14 13 16-0216	MLF	4	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,264.02	1,512.14
				<i>For Work In Restricted Working Space, Add</i>	756.42	
27 14 13 16-0217	MLF	5	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,592.87	1,612.71
				<i>For Work In Restricted Working Space, Add</i>	806.71	
27 14 13 16-0218	MLF	6	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,905.22	1,715.05
				<i>For Work In Restricted Working Space, Add</i>	857.53	
27 14 13 16-0219	MLF	7	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,102.38	1,817.39
				<i>For Work In Restricted Working Space, Add</i>	908.34	
27 14 13 16-0220	MLF	8	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,372.56	1,919.73
				<i>For Work In Restricted Working Space, Add</i>	959.69	
27 14 13 16-0221	MLF	9	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,770.89	2,041.48
				<i>For Work In Restricted Working Space, Add</i>	1,020.51	
27 14 13 16-0222	MLF	12	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,684.19	2,528.47
				<i>For Work In Restricted Working Space, Add</i>	1,264.32	
27 14 13 16-0223	MLF	24	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,431.43	3,735.35
				<i>For Work In Restricted Working Space, Add</i>	1,868.03	
27 14 13 16-0224 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 14 13 16-0201)</small>						
27 14 13 16-0225	MLF	1	Pair	#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,186.34	1,199.83
				<i>For Work In Restricted Working Space, Add</i>	600.27	
27 14 13 16-0226	MLF	2	Pair	#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,405.76	1,243.95
				<i>For Work In Restricted Working Space, Add</i>	621.97	
27 14 13 16-0227	MLF	3	Pair	#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,554.83	1,288.05
				<i>For Work In Restricted Working Space, Add</i>	643.67	
27 14 13 16-0228	MLF	4	Pair	#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,742.28	1,330.40
				<i>For Work In Restricted Working Space, Add</i>	665.38	

27	Communications
27 10	Structured Cabling
27 14	Communications Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0229 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,994.58	1,420.38
<i>For Work In Restricted Working Space, Add</i>	710.37	
27 14 13 16-0230 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,245.09	1,510.37
<i>For Work In Restricted Working Space, Add</i>	754.83	
27 14 13 16-0231 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,811.87	1,688.59
<i>For Work In Restricted Working Space, Add</i>	844.29	
27 14 13 16-0232 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,974.27	2,224.98
<i>For Work In Restricted Working Space, Add</i>	1,112.67	
27 14 13 16-0233 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,860.68	3,287.18
<i>For Work In Restricted Working Space, Add</i>	1,643.59	
27 14 13 16-0234 #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 14 13 16-0201)</small>		
27 14 13 16-0235 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	1,950.05	1,092.20
<i>For Work In Restricted Working Space, Add</i>	545.75	
27 14 13 16-0236 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,107.59	1,131.02
<i>For Work In Restricted Working Space, Add</i>	565.33	
27 14 13 16-0237 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,455.55	1,288.05
<i>For Work In Restricted Working Space, Add</i>	643.67	
27 14 13 16-0238 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,658.59	1,354.05
<i>For Work In Restricted Working Space, Add</i>	677.02	
27 14 13 16-0239 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,858.35	1,420.38
<i>For Work In Restricted Working Space, Add</i>	710.37	
27 14 13 16-0240 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,084.12	1,510.37
<i>For Work In Restricted Working Space, Add</i>	754.83	
27 14 13 16-0241 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,408.80	1,680.82
<i>For Work In Restricted Working Space, Add</i>	840.59	
27 14 13 16-0242 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,169.41	2,023.84
<i>For Work In Restricted Working Space, Add</i>	1,011.56	
27 14 13 16-0243 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,177.34	2,988.99
<i>For Work In Restricted Working Space, Add</i>	1,494.31	
27 14 13 16-0244 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,430.57	3,059.57
<i>For Work In Restricted Working Space, Add</i>	1,529.78	
27 14 13 16-0245 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	7,568.73	3,562.44
<i>For Work In Restricted Working Space, Add</i>	1,781.22	
27 14 13 16-0246 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,110.63	3,812.99
<i>For Work In Restricted Working Space, Add</i>	1,906.67	
27 14 13 16-0247 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	9,929.37	4,765.80
<i>For Work In Restricted Working Space, Add</i>	2,382.54	
27 14 13 16-0248 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	13,268.72	6,274.41
<i>For Work In Restricted Working Space, Add</i>	3,136.83	
27 14 13 16-0249 #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 14 13 16-0201)</small>		
27 14 13 16-0250 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	1,724.20	982.80
<i>For Work In Restricted Working Space, Add</i>	491.22	
27 14 13 16-0251 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	1,814.40	1,018.09
<i>For Work In Restricted Working Space, Add</i>	508.69	
27 14 13 16-0252 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	1,924.48	1,053.38
<i>For Work In Restricted Working Space, Add</i>	526.69	
27 14 13 16-0253 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,042.01	1,088.67
<i>For Work In Restricted Working Space, Add</i>	544.69	
27 14 13 16-0254 MLF 5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,217.57	1,162.78
<i>For Work In Restricted Working Space, Add</i>	581.21	
27 14 13 16-0255 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,399.46	1,231.59
<i>For Work In Restricted Working Space, Add</i>	616.15	



Communications	27
Structured Cabling	27 10
Communications Cabling	27 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0256 Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench <small>(27 14 13 16-0001)</small> Note: Excludes excavation.		
27 14 13 16-0257 MLF 1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	1,663.28	
27 14 13 16-0258 MLF 2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,133.80	
27 14 13 16-0259 MLF 3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,544.48	
27 14 13 16-0260 MLF 4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,979.90	
27 14 13 16-0261 MLF 5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,434.88	
27 14 13 16-0262 MLF 6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,847.46	
27 14 13 16-0263 Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) <small>(27 14 13 16-0001)</small>		
27 14 13 16-0264 MLF 1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	1,748.67	471.12
27 14 13 16-0265 MLF 2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	2,267.24	504.73
27 14 13 16-0266 MLF 3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	2,987.24	638.08
27 14 13 16-0267 MLF 4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	3,642.66	738.02
27 14 13 16-0268 MLF 5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	5,881.05	841.19
27 14 13 16-0269 MLF 6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	7,075.64	1,074.68
27 14 13 16-0270 Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 14 13 16-0001)</small>		
27 14 13 16-0271 MLF 1 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,294.42	681.96
27 14 13 16-0272 MLF 2 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,548.92	706.67
27 14 13 16-0273 MLF 3 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,729.07	731.36
27 14 13 16-0274 MLF 4 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,827.08	756.07
27 14 13 16-0275 MLF 5 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,180.50	806.36
27 14 13 16-0276 MLF 6 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,357.09	857.52
27 14 13 16-0277 MLF 8 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,935.63	959.87
27 14 13 16-0278 MLF 12 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,655.97	1,264.23
27 14 13 16-0279 MLF 24 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,544.44	1,867.68
27 14 13 16-0280 MLF 1 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,119.75	599.91
27 14 13 16-0281 MLF 2 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,328.88	621.97
27 14 13 16-0282 MLF 3 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,502.37	644.03
27 14 13 16-0283 MLF 4 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,589.75	665.20
27 14 13 16-0284 MLF 5 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,891.86	710.20
27 14 13 16-0285 MLF 6 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,119.08	755.19
27 14 13 16-0286 MLF 8 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,392.51	844.29
27 14 13 16-0287 MLF 12 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,094.15	1,112.49
27 14 13 16-0288 MLF 24 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,926.24	1,643.59
27 14 13 16-0289 MLF 1 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	991.23	546.10
27 14 13 16-0290 MLF 2 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,124.83	565.51
27 14 13 16-0291 MLF 3 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,254.37	584.92
27 14 13 16-0292 MLF 4 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,337.23	605.21
27 14 13 16-0293 MLF 5 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,454.49	645.80
27 14 13 16-0294 MLF 6 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,585.68	686.37
27 14 13 16-0295 MLF 8 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,775.83	767.53
27 14 13 16-0296 MLF 12 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,443.09	1,011.91
27 14 13 16-0297 MLF 24 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,706.79	1,494.50
27 14 13 16-0298 MLF 25 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,903.06	1,529.79
27 14 13 16-0299 MLF 36 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,601.66	1,781.22

27	Communications
27 10	Structured Cabling
27 14	Communications Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0300 MLF 40 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,962.13	1,906.50
27 14 13 16-0301 MLF 50 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,991.64	2,382.90
27 14 13 16-0302 MLF 100 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,087.61	3,137.20
27 14 13 16-0303 MLF 250 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	15,586.60	5,778.59
27 14 13 16-0304 MLF 500 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	23,398.52	7,647.16
27 14 13 16-0305 MLF 750 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	31,249.61	9,636.58
27 14 13 16-0306 MLF 1200 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	43,961.62	13,218.43
27 14 13 16-0307 MLF 1 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	961.81	546.10
27 14 13 16-0308 MLF 2 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,059.03	565.51
27 14 13 16-0309 MLF 3 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,153.66	584.92
27 14 13 16-0310 MLF 4 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,218.74	605.21
27 14 13 16-0311 MLF 5 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,318.23	645.80
27 14 13 16-0312 MLF 6 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,426.30	686.37
27 14 13 16-0313 MLF 8 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,596.89	767.53
27 14 13 16-0314 MLF 12 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,170.28	1,011.91
27 14 13 16-0315 MLF 24 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,268.54	1,494.50
27 14 13 16-0316 MLF 25 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,415.39	1,529.79
27 14 13 16-0317 MLF 36 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,029.64	1,781.22
27 14 13 16-0318 MLF 40 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,319.18	1,906.50
27 14 13 16-0319 MLF 50 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,263.51	2,382.90
27 14 13 16-0320 MLF 100 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,057.25	3,137.20
27 14 13 16-0321 MLF 250 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	13,406.09	5,778.59
27 14 13 16-0322 MLF 500 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	19,548.79	7,647.16
27 14 13 16-0323 MLF 750 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	25,762.24	9,636.58
27 14 13 16-0324 MLF 1200 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	36,039.60	13,218.43
27 14 13 16-0325 Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 14 13 16-0001)</small>		
27 14 13 16-0326 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,322.13	681.96
27 14 13 16-0327 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,509.38	706.67
27 14 13 16-0328 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,626.49	731.36
27 14 13 16-0329 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,782.74	756.07
27 14 13 16-0330 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,970.36	806.36
27 14 13 16-0331 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,156.20	857.52
27 14 13 16-0332 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,594.31	959.87
27 14 13 16-0333 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,370.30	1,264.23
27 14 13 16-0334 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,026.51	1,867.68
27 14 13 16-0335 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,157.65	599.91
27 14 13 16-0336 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,318.49	621.97
27 14 13 16-0337 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,419.70	644.03
27 14 13 16-0338 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,553.45	665.20
27 14 13 16-0339 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,715.17	710.20
27 14 13 16-0340 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,876.01	755.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0341 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,252.76	844.29
27 14 13 16-0342 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,927.71	1,112.49
27 14 13 16-0343 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,365.47	1,643.59
27 14 13 16-0344 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,020.54	546.10
27 14 13 16-0345 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,159.04	565.51
27 14 13 16-0346 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,256.73	584.92
27 14 13 16-0347 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,432.33	605.21
27 14 13 16-0348 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,589.04	645.80
27 14 13 16-0349 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,886.16	686.37
27 14 13 16-0350 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,108.25	767.53
27 14 13 16-0351 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,668.01	1,011.91
27 14 13 16-0352 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,021.03	1,494.50
27 14 13 16-0353 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,251.85	1,529.79
27 14 13 16-0354 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,054.68	1,781.22
27 14 13 16-0355 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,421.98	1,906.50
27 14 13 16-0356 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,512.39	2,382.90
27 14 13 16-0357 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,824.54	3,137.20
27 14 13 16-0358 MLF 250 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	17,146.64	5,778.59
27 14 13 16-0359 MLF 500 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	26,152.57	7,647.16
27 14 13 16-0360 MLF 750 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	35,174.76	9,636.58
27 14 13 16-0361 MLF 1200 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	49,628.31	13,217.54
27 14 13 16-0362 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	980.56	546.10
27 14 13 16-0363 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,080.92	565.51
27 14 13 16-0364 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,155.17	584.92
27 14 13 16-0365 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,279.57	605.21
27 14 13 16-0366 MLF 5 Pair #22 AWG, Solid, Low Voltage, Placed In Conduit, Plenum Rated, Non-Shielded.....	1,404.29	645.80
27 14 13 16-0367 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,618.52	686.37
27 14 13 16-0368 MLF 8 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,809.54	767.53
27 14 13 16-0369 MLF 12 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,314.15	1,011.91
27 14 13 16-0370 MLF 24 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,469.56	1,494.50
27 14 13 16-0371 MLF 25 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,638.50	1,529.79
27 14 13 16-0372 MLF 36 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,303.05	1,781.22
27 14 13 16-0373 MLF 40 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,613.34	1,906.50
27 14 13 16-0374 MLF 50 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,596.63	2,382.90
27 14 13 16-0375 MLF 100 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,528.65	3,137.20
27 14 13 16-0376 MLF 250 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	14,403.94	5,778.59
27 14 13 16-0377 MLF 500 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	21,310.53	7,647.16
27 14 13 16-0378 MLF 750 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	28,273.43	9,636.58
27 14 13 16-0379 MLF 1200 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	39,665.18	13,218.43

27 14 13 16-0380 Copper Telecommunications Cable (27 14 13 16)

27 14 13 16-0381 Indoor Telecommunications Cable (27 14 13 16-0380)

Note: Shielded twisted pair cables (STP) include a metallic foil wrap. Un-shielded twisted pair cables (UTP) exclude any shielding.



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0382	Category 3, Indoor Telecommunications Cable (27 14 13 16-0381) Note: Un-shielded twisted pair cables (UTP).		
27 14 13 16-0383	Category 3, Indoor Telecommunications Riser Cable (27 14 13 16-0382)		
27 14 13 16-0384	24 AWG, Category 3, Indoor Telecommunications Riser Cable (27 14 13 16-0383)		
27 14 13 16-0385	24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 14 13 16-0384)		
27 14 13 16-0386	MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	734.90	405.31
27 14 13 16-0387	MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	760.24	405.31
27 14 13 16-0388	MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	769.20	405.31
27 14 13 16-0389	MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	916.13	463.21
27 14 13 16-0390	MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,102.71	463.21
27 14 13 16-0391	MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,398.95	463.21
27 14 13 16-0392	MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	2,152.07	579.01
27 14 13 16-0393	MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	3,832.72	926.42
27 14 13 16-0394	MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	5,085.34	1,042.22
27 14 13 16-0395	MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	6,645.21	1,158.02
27 14 13 16-0396	MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	9,683.87	1,621.23
27 14 13 16-0397	MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	12,632.91	2,003.37
27 14 13 16-0398	MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	19,823.86	2,779.25
27 14 13 16-0399	MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	32,712.32	5,558.49
27 14 13 16-0400	MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	44,857.69	8,337.75
27 14 13 16-0401	24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 14 13 16-0384)		
27 14 13 16-0402	MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,410.42 405.31	810.62
27 14 13 16-0403	MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,435.76 405.31	810.62
27 14 13 16-0404	MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,444.72 405.31	810.62
27 14 13 16-0405	MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,495.15 405.31	810.62
27 14 13 16-0406	MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,681.73 405.31	810.62
27 14 13 16-0407	MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,170.97 463.21	926.42
27 14 13 16-0408	MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,117.09 579.01	1,158.02
27 14 13 16-0409	MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,604.73 694.81	1,389.62
27 14 13 16-0410	MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,953.86 781.67	1,563.32
27 14 13 16-0411	MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	7,610.23 868.52	1,737.03
27 14 13 16-0412	MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	11,034.90 1,215.92	2,431.84
27 14 13 16-0413	MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	14,312.03 1,505.42	3,010.86
27 14 13 16-0414	MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	22,139.90 2,084.44	4,168.87
27 14 13 16-0415	MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	37,344.40 4,168.87	8,337.75
27 14 13 16-0416	MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	51,805.82 6,253.31	12,506.62
27 14 13 16-0417	22 AWG, Category 3, Indoor Telecommunications Riser Cable (27 14 13 16-0383)		
27 14 13 16-0418	22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 14 13 16-0417)		
27 14 13 16-0419	MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	2,136.83	463.21
27 14 13 16-0420	MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	3,131.48	579.01
27 14 13 16-0421	MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	5,658.45	926.42
27 14 13 16-0422	MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	9,825.27	1,158.02
27 14 13 16-0423	MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	14,413.10	1,621.23
27 14 13 16-0424	MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	18,724.05	2,003.37
27 14 13 16-0425	MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	27,673.21	2,779.25
27 14 13 16-0426	22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 14 13 16-0417)		
27 14 13 16-0427	MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,908.85 463.21	926.42
27 14 13 16-0428	MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,096.50 579.01	1,158.02
27 14 13 16-0429	MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,430.46 694.81	1,389.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0430 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,790.29 868.52	1,737.03
27 14 13 16-0431 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	15,764.13 1,215.92	2,431.84
27 14 13 16-0432 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	20,403.17 1,505.42	3,010.86
27 14 13 16-0433 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	29,989.25 2,084.44	4,168.87
27 14 13 16-0434 Category 3, Indoor Telecommunications Plenum Cable <small>(27 14 13 16-0382)</small>		
27 14 13 16-0435 24 AWG, Category 3, Indoor Telecommunications Plenum Cable <small>(27 14 13 16-0434)</small>		
27 14 13 16-0436 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit <small>(27 14 13 16-0435)</small>		
27 14 13 16-0437 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	755.40	405.31
27 14 13 16-0438 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	780.64	405.31
27 14 13 16-0439 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	799.52	405.31
27 14 13 16-0440 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	950.18	463.21
27 14 13 16-0441 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,153.55	463.21
27 14 13 16-0442 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,704.84	463.21
27 14 13 16-0443 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	2,774.84	579.01
27 14 13 16-0444 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	5,137.59	926.42
27 14 13 16-0445 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	8,690.02	1,158.02
27 14 13 16-0446 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	12,970.17	1,621.23
27 14 13 16-0447 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed <small>(27 14 13 16-0435)</small>		
27 14 13 16-0448 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,430.92 405.31	810.62
27 14 13 16-0449 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,456.16 405.31	810.62
27 14 13 16-0450 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,475.04 405.31	810.62
27 14 13 16-0451 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,529.20 405.31	810.62
27 14 13 16-0452 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,732.57 405.31	810.62
27 14 13 16-0453 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,476.86 463.21	926.42
27 14 13 16-0454 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,739.86 579.01	1,158.02
27 14 13 16-0455 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,909.60 694.81	1,389.62
27 14 13 16-0456 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	9,655.04 868.52	1,737.03
27 14 13 16-0457 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	14,321.20 1,215.92	2,431.84
27 14 13 16-0458 Category 5E, Indoor Telecommunications Cable <small>(27 14 13 16-0381)</small>		
27 14 13 16-0459 Category 5E, Indoor Telecommunications Riser Cable <small>(27 14 13 16-0458)</small>		
27 14 13 16-0460 Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 14 13 16-0459)</small>		
27 14 13 16-0461 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	814.68	405.31
27 14 13 16-0462 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	847.28	405.31
27 14 13 16-0463 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	944.41	463.21
27 14 13 16-0464 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	977.00	463.21
27 14 13 16-0465 Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed <small>(27 14 13 16-0459)</small>		
27 14 13 16-0466 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,490.20 405.31	810.62
27 14 13 16-0467 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,522.80 405.31	810.62
27 14 13 16-0468 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,716.43 463.21	926.42
27 14 13 16-0469 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,749.02 463.21	926.42
27 14 13 16-0470 Category 5E, Indoor Telecommunications Plenum Cable <small>(27 14 13 16-0458)</small>		
27 14 13 16-0471 Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit <small>(27 14 13 16-0470)</small>		
27 14 13 16-0472 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	934.56	405.31
27 14 13 16-0473 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,285.77	463.21

27	Communications
27 10	Structured Cabling
27 14	Communications Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0474 Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed <small>(27 14 13 16-0470)</small>		
27 14 13 16-0475 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,610.08 405.31	810.62
27 14 13 16-0476 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,057.79 463.21	926.42
27 14 13 16-0477 Category 6, Indoor Telecommunications Cable <small>(27 14 13 16-0381)</small>		
27 14 13 16-0478 Category 6, Indoor Telecommunications Riser Cable <small>(27 14 13 16-0477)</small>		
27 14 13 16-0479 Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 14 13 16-0478)</small>		
27 14 13 16-0480 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit	1,004.42	405.31
27 14 13 16-0481 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,041.20	405.31
27 14 13 16-0482 Category 6, Indoor Telecommunications Riser Cable, Installed Exposed <small>(27 14 13 16-0478)</small>		
27 14 13 16-0483 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,679.94 405.31	810.62
27 14 13 16-0484 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,716.72 405.31	810.62
27 14 13 16-0485 Category 6, Indoor Telecommunications Plenum Cable <small>(27 14 13 16-0477)</small>		
27 14 13 16-0486 Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit <small>(27 14 13 16-0485)</small>		
27 14 13 16-0487 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,344.68	405.31
27 14 13 16-0488 Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed <small>(27 14 13 16-0485)</small>		
27 14 13 16-0489 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,020.20 405.31	810.62
27 14 13 16-0490 Category 6a, Indoor Telecommunications Cable <small>(27 14 13 16-0381)</small>		
27 14 13 16-0491 Category 6a, Indoor Telecommunications Riser Cable <small>(27 14 13 16-0490)</small>		
27 14 13 16-0492 Category 6a Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 14 13 16-0491)</small>		
27 14 13 16-0493 MLF 4-Pair Solid UTP, 23 AWG, Category 6a, Indoor Telecommunications Riser Cable, Installed In Conduit	1,063.18	405.31
27 14 13 16-0494 Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed <small>(27 14 13 16-0491)</small>		
27 14 13 16-0495 MLF 4-Pair Solid UTP, 23 AWG, Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,738.70 405.31	810.62
27 14 13 16-0496 Category 6a, Indoor Telecommunications Plenum Cable <small>(27 14 13 16-0490)</small>		
27 14 13 16-0497 Category 6a, Indoor Telecommunications Plenum Cable, Installed In Conduit <small>(27 14 13 16-0496)</small>		
27 14 13 16-0498 MLF 4-Pair Solid UTP, 23 AWG, Category 6a, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,518.61	405.31
27 14 13 16-0499 Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed <small>(27 14 13 16-0496)</small>		
27 14 13 16-0500 MLF 4-Pair Solid UTP, 23 AWG, Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,194.13 405.31	810.62
27 14 13 16-0501 Category 7, Indoor Telecommunications Cable <small>(27 14 13 16-0381)</small>		
27 14 13 16-0502 Category 7, Indoor Telecommunications Cable, Installed In Conduit <small>(27 14 13 16-0501)</small>		
27 14 13 16-0503 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed In Conduit	2,266.51	463.21
27 14 13 16-0504 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	4,420.17	463.21
27 14 13 16-0505 Category 7, Indoor Telecommunications Cable, Installed Exposed <small>(27 14 13 16-0501)</small>		
27 14 13 16-0506 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,038.53 463.21	926.42
27 14 13 16-0507 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,192.19 463.21	926.42
27 14 13 16-0508 Outdoor Telecommunications Cable <small>(27 14 13 16-0380)</small> Note: Cable buried in trench excludes excavation.		



Communications	27	27
Structured Cabling	27 10	
Communications Cabling	27 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0509 PE-89 Outdoor Telecommunications Cable <small>(27 14 13 16-0508)</small> Note: Includes foam-skin polyolefin insulated conductors.		
27 14 13 16-0510 24 AWG, PE-89 Outdoor Telecommunications Cable <small>(27 14 13 16-0509)</small>		
27 14 13 16-0511 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit <small>(27 14 13 16-0510)</small>		
27 14 13 16-0512 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	1,124.01	463.21
27 14 13 16-0513 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	1,272.89	810.62
27 14 13 16-0514 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	1,690.12	521.11
27 14 13 16-0515 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,397.61	579.01
27 14 13 16-0516 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	3,390.92	810.62
27 14 13 16-0517 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	4,192.63	926.42
27 14 13 16-0518 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	6,762.93	1,042.22
27 14 13 16-0519 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	9,920.53	1,505.42
27 14 13 16-0520 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	13,124.41	1,968.63
27 14 13 16-0521 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	17,816.16	2,663.45
27 14 13 16-0522 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	29,027.13	5,326.89
27 14 13 16-0523 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	40,146.91	7,874.54
27 14 13 16-0524 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench <small>(27 14 13 16-0510)</small>		
27 14 13 16-0525 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	979.27	
27 14 13 16-0526 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,128.15	
27 14 13 16-0527 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,497.11	
27 14 13 16-0528 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,204.61	
27 14 13 16-0529 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	3,101.41	
27 14 13 16-0530 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	3,710.12	
27 14 13 16-0531 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	6,569.93	
27 14 13 16-0532 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	9,341.52	
27 14 13 16-0533 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	11,918.14	
27 14 13 16-0534 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	15,693.13	
27 14 13 16-0535 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	23,237.04	
27 14 13 16-0536 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	31,654.75	
27 14 13 16-0537 22 AWG, PE-89 Outdoor Telecommunications Cable <small>(27 14 13 16-0509)</small>		
27 14 13 16-0538 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit <small>(27 14 13 16-0537)</small>		
27 14 13 16-0539 MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	1,218.66	463.21
27 14 13 16-0540 MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	1,449.72	463.21
27 14 13 16-0541 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,052.09	521.11
27 14 13 16-0542 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	3,041.87	579.01
27 14 13 16-0543 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	4,397.72	810.62
27 14 13 16-0544 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	5,561.35	926.42
27 14 13 16-0545 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	9,403.37	1,042.22
27 14 13 16-0546 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	13,686.33	1,505.42
27 14 13 16-0547 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	18,201.04	1,968.63
27 14 13 16-0548 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	26,681.55	2,663.45
27 14 13 16-0549 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	40,223.39	5,326.89
27 14 13 16-0550 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	56,897.55	7,874.54
27 14 13 16-0551 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench <small>(27 14 13 16-0537)</small>		
27 14 13 16-0552 MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,073.92	
27 14 13 16-0553 MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,304.98	
27 14 13 16-0554 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,859.08	
27 14 13 16-0555 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,848.87	
27 14 13 16-0556 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	4,108.21	
27 14 13 16-0557 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	5,271.84	
27 14 13 16-0558 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	9,210.37	
27 14 13 16-0559 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	13,107.32	
27 14 13 16-0560 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	16,994.77	
27 14 13 16-0561 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	24,558.52	
27 14 13 16-0562 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	34,433.30	
27 14 13 16-0563 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	48,405.39	
27 14 13 16-0564 19 AWG, PE-89 Outdoor Telecommunications Cable <small>(27 14 13 16-0509)</small>		
27 14 13 16-0565 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit <small>(27 14 13 16-0564)</small>		
27 14 13 16-0566 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	3,167.95	521.11
27 14 13 16-0567 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	5,223.03	579.01
27 14 13 16-0568 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	8,277.60	810.62
27 14 13 16-0569 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	9,881.60	926.42
27 14 13 16-0570 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench <small>(27 14 13 16-0564)</small>		
27 14 13 16-0571 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,974.94	

27	Communications
27 10	Structured Cabling
27 14	Communications Cabling



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 14 13 16-0572	MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	5,030.03	
27 14 13 16-0573	MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	7,988.09	
27 14 13 16-0574	MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	9,592.09	
27 14 13 16-0575	PE-39 Outdoor Telecommunications Cable (27 14 13 16-0508)		
	Note: Includes solid polyolefin insulated conductors.		
27 14 13 16-0576	24 AWG, PE-39 Outdoor Telecommunications Cable (27 14 13 16-0575)		
27 14 13 16-0577	24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 14 13 16-0576)		
27 14 13 16-0578	MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	1,716.33	810.62
27 14 13 16-0579	MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	1,898.48	810.62
27 14 13 16-0580	MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,268.95	810.62
27 14 13 16-0581	MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,927.68	810.62
27 14 13 16-0582	MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	4,269.78	810.62
27 14 13 16-0583	MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	7,380.74	1,042.22
27 14 13 16-0584	MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	10,763.26	1,505.42
27 14 13 16-0585	MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	14,151.27	1,968.63
27 14 13 16-0586	MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	19,315.45	2,663.45
27 14 13 16-0587	MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	30,966.09	5,326.89
27 14 13 16-0588	MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	45,175.79	7,874.54
27 14 13 16-0589	24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 14 13 16-0576)		
27 14 13 16-0590	MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	1,426.82	
27 14 13 16-0591	MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	1,608.97	
27 14 13 16-0592	MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	1,976.44	
27 14 13 16-0593	MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	2,638.17	
27 14 13 16-0594	MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	3,980.27	
27 14 13 16-0595	MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	7,187.74	
27 14 13 16-0596	MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	10,184.25	
27 14 13 16-0597	MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	12,945.00	
27 14 13 16-0598	MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	17,192.42	
27 14 13 16-0599	MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	25,176.00	
27 14 13 16-0600	MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	36,683.63	
27 14 13 16-0601	22 AWG, PE-39 Outdoor Telecommunications Cable (27 14 13 16-0575)		
27 14 13 16-0602	22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 14 13 16-0601)		
27 14 13 16-0603	MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	1,821.64	810.62
27 14 13 16-0604	MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,089.29	810.62
27 14 13 16-0605	MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,658.87	810.62
27 14 13 16-0606	MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,706.69	810.62
27 14 13 16-0607	MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	5,893.35	810.62
27 14 13 16-0608	MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	10,505.26	1,042.22
27 14 13 16-0609	MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	15,375.44	1,505.42
27 14 13 16-0610	MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	19,729.61	1,968.63
27 14 13 16-0611	MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	27,489.00	2,663.45
27 14 13 16-0612	MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	44,200.96	5,326.89
27 14 13 16-0613	22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 14 13 16-0601)		
27 14 13 16-0614	MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	1,532.13	
27 14 13 16-0615	MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	1,799.78	
27 14 13 16-0616	MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	2,369.36	
27 14 13 16-0617	MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	3,417.18	
27 14 13 16-0618	MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	5,603.84	
27 14 13 16-0619	MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	10,312.26	
27 14 13 16-0620	MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	14,796.43	
27 14 13 16-0621	MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	18,523.34	
27 14 13 16-0622	MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	25,365.97	
27 14 13 16-0623	MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	38,410.87	
27 14 13 16-0624	19 AWG, PE-39 Outdoor Telecommunications Cable (27 14 13 16-0575)		
27 14 13 16-0625	19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 14 13 16-0624)		
27 14 13 16-0626	MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,920.61	810.62
27 14 13 16-0627	MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	6,045.73	810.62
27 14 13 16-0628	MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	10,452.47	810.62
27 14 13 16-0629	19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 14 13 16-0624)		
27 14 13 16-0630	MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	3,631.10	
27 14 13 16-0631	MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	5,756.22	
27 14 13 16-0632	MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	10,162.96	



Communications	27	27
Structured Cabling	27 10	
Communications Cabling	27 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0633 (Aerial) Outdoor Telecommunications Cable <small>(27 14 13 16-0508)</small> Note: Includes support wire.		
27 14 13 16-0634 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles <small>(27 14 13 16-0633)</small>		
27 14 13 16-0635 MLF 6-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	5,133.21	1,615.15
27 14 13 16-0636 MLF 12-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	5,284.77	1,615.15
27 14 13 16-0637 MLF 25-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	5,661.04	1,615.15
27 14 13 16-0638 MLF 50-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	6,357.70	1,615.15
27 14 13 16-0639 MLF 100-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	7,703.30	1,615.15
27 14 13 16-0640 MLF 200-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	10,777.19	1,776.66
27 14 13 16-0641 MLF 300-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	13,867.75	1,938.18
27 14 13 16-0642 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles <small>(27 14 13 16-0633)</small>		
27 14 13 16-0643 MLF 6-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	5,314.53	1,615.15
27 14 13 16-0644 MLF 12-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	5,538.44	1,615.15
27 14 13 16-0645 MLF 25-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	6,077.75	1,615.15
27 14 13 16-0646 MLF 50-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	7,143.20	1,615.15
27 14 13 16-0647 MLF 100-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,729.71	1,615.15
27 14 13 16-0648 MLF 200-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	14,227.57	1,776.66
27 14 13 16-0649 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles <small>(27 14 13 16-0633)</small>		
27 14 13 16-0650 MLF 6-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	5,554.24	1,615.15
27 14 13 16-0651 MLF 12-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	6,060.61	1,615.15
27 14 13 16-0652 MLF 25-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	7,056.20	1,615.15
27 14 13 16-0653 MLF 50-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,047.39	1,615.15
27 14 13 16-0654 MLF 100-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	13,290.06	1,615.15
27 14 13 16-0655 Sound System Cables <small>(27 14 13 16)</small> Note: Cables shall be type CL2 or CM and as manufactured by West Penn Wire, Belden or approved equal.		
27 14 13 16-0656 Speaker/Communications And Control Cable, Installed Exposed <small>(27 14 13 16-0656)</small>		
27 14 13 16-0657 Non-Plenum Rated Speaker/Communications And Control Cable, Installed Exposed <small>(27 14 13 16-0656)</small>		
27 14 13 16-0658 MLF 2/c #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,433.78	617.56
For Work In Restricted Working Space, Add	370.54	
27 14 13 16-0659 MLF 2/c #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,366.78	617.56
For Work In Restricted Working Space, Add	370.54	
27 14 13 16-0660 MLF 2/c #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,315.09	617.56
For Work In Restricted Working Space, Add	370.54	
27 14 13 16-0661 MLF 4/c #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,371.62	617.56
For Work In Restricted Working Space, Add	370.54	
27 14 13 16-0662 MLF 4/c #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,553.28	617.56
For Work In Restricted Working Space, Add	370.54	
27 14 13 16-0663 MLF 6/c #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,734.34	617.56
For Work In Restricted Working Space, Add	370.54	
27 14 13 16-0664 MLF 4/c #20 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,554.04	617.56
For Work In Restricted Working Space, Add	370.54	
27 14 13 16-0665 MLF 4/c #22 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,466.81	617.56
For Work In Restricted Working Space, Add	370.54	
27 14 13 16-0666 Plenum Rated Speaker/Communications And Control Cable, Installed Exposed <small>(27 14 13 16-0656)</small>		
27 14 13 16-0667 MLF 2/c #16 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,461.47	617.56
For Work In Restricted Working Space, Add	370.54	
27 14 13 16-0668 MLF 2/c #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,384.39	617.56
For Work In Restricted Working Space, Add	370.54	
27 14 13 16-0669 MLF 2/c #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,340.75	617.56
For Work In Restricted Working Space, Add	370.54	
27 14 13 16-0670 MLF 4/c #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,413.56	617.56
For Work In Restricted Working Space, Add	370.54	
27 14 13 16-0671 MLF 8/c #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,567.37	617.56
For Work In Restricted Working Space, Add	370.54	

27	Communications
27 10	Structured Cabling
27 14	Communications Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 13 16-0672 MLF 2/c #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,550.40 370.54	617.56
For Work In Restricted Working Space, Add		
27 14 13 16-0673 MLF 2/c #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,443.78 370.54	617.56
For Work In Restricted Working Space, Add		
27 14 13 16-0674 MLF 4/c #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,625.02 370.54	617.56
For Work In Restricted Working Space, Add		
27 14 13 16-0675 MLF 6/c #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,805.76 370.54	617.56
For Work In Restricted Working Space, Add		
27 14 13 16-0676 MLF 2/c #22 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,362.63 370.54	617.56
For Work In Restricted Working Space, Add		
27 14 13 16-0677 MLF 2/c #20 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,398.65 370.54	617.56
For Work In Restricted Working Space, Add		

27 14 13 16-0678 Speaker/Communications And Control Cable, Installed In Conduit (27 14 13 16-0655)

27 14 13 16-0679 Non-Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit (27 14 13 16-0678)

27 14 13 16-0680 MLF 2/c #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	816.22	308.78
27 14 13 16-0681 MLF 2/c #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	749.22	308.78
27 14 13 16-0682 MLF 2/c #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	697.53	308.78
27 14 13 16-0683 MLF 4/c #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	754.06	308.78
27 14 13 16-0684 MLF 4/c #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	935.72	308.78
27 14 13 16-0685 MLF 6/c #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,116.78	308.78
27 14 13 16-0686 MLF 4/c #20AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit.....	936.48	308.78
27 14 13 16-0687 MLF 4/c #22 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit.....	849.25	308.78

27 14 13 16-0688 Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit (27 14 13 16-0678)

27 14 13 16-0689 MLF 2/c #6 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	843.91	308.78
27 14 13 16-0690 MLF 2/c #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	766.83	308.78
27 14 13 16-0691 MLF 2/c #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	723.19	308.78
27 14 13 16-0692 MLF 4/c #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	796.00	308.78
27 14 13 16-0693 MLF 8/c #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	949.81	308.78
27 14 13 16-0694 MLF 2/c #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	932.84	308.78
27 14 13 16-0695 MLF 2/c #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	826.22	308.78
27 14 13 16-0696 MLF 4/c #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,007.46	308.78
27 14 13 16-0697 MLF 6/c #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,188.20	308.78
27 14 13 16-0698 MLF 2/c #20 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	781.09	308.78
27 14 13 16-0699 MLF 2/c #22 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	745.07	308.78

27 14 23 Communications Optical Fiber Cabling (27 14)

27 14 23 13 Communications Optical Fiber Splicing And Terminations (27 14 23)

27 14 23 13-0001 Fiber Optic Cable Connectors (27 14 23 13)

27 14 23 13-0002 EA ST Connector For Multimode Fiber Optic Cable.....	26.76
27 14 23 13-0003 EA ST Connector For Singlemode Fiber Optic Cable.....	30.47
27 14 23 13-0004 EA SC Connector For Multimode Fiber Optic Cable.....	29.51
27 14 23 13-0005 EA SC Connector For Singlemode Fiber Optic Cable.....	34.24
27 14 23 13-0006 EA LC Connector For Multimode Fiber Optic Cable.....	40.03
27 14 23 13-0007 EA LC Connector For Singlemode Fiber Optic Cable.....	41.13
27 14 23 13-0008 EA MT-RJ Connector For Multimode Fiber Optic Cable.....	58.22

27 14 23 13-0009 Fiber Optic Cable Fan Out Kits (27 14 23 13)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 13-0010 Buffer Tube Fan Out Kits For Fiber Optic Cable <small>(27 14 23 13-0009)</small>		
27 14 23 13-0011 EA 6-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable	207.51	
27 14 23 13-0012 EA 12-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable	210.28	
27 14 23 13-0013 EA 6-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	233.69	
27 14 23 13-0014 EA 12-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	251.24	
27 14 23 13-0015 Spider Fan Out Kits For Fiber Optic Cable <small>(27 14 23 13-0009)</small>		
<small>Note: For tight buffered or loose tube non-armored cables. Includes aramid yarn strength member, outer protective PVDF jacket and one meter fan out lengths.</small>		
27 14 23 13-0016 EA 6-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	241.65	
27 14 23 13-0017 EA 12-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	260.25	
27 14 23 13-0018 EA 18-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	381.09	
27 14 23 13-0019 EA 24-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	496.18	
27 14 23 13-0020 Fiber Optic Cable Splice Closures <small>(27 14 23 13)</small>		
<small>Note: Includes mounting hardware. Excludes splicing and splice trays.</small>		
27 14 23 13-0021 EA Up To 144-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure	599.95	96.51
27 14 23 13-0022 EA Up To 144-Fiber Capacity, Underground Fiber Optic Cable Splice Closure	792.95	193.00
27 14 23 13-0023 EA Up To 144-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure	792.95	193.00
27 14 23 13-0024 EA Up To 288-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure	968.16	96.51
27 14 23 13-0025 EA Up To 288-Fiber Capacity, Underground Fiber Optic Cable Splice Closure	1,161.16	193.00
27 14 23 13-0026 EA Up To 288-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	1,161.16	193.00
27 14 23 13-0027 EA Splice Tray For Fiber Optic Cable Splice Closure.....	44.64	12.06
<small>Note: Up to 12-fiber, mechanical or fusion splice tray. Excludes splice.</small>		
27 14 23 13-0028 Fiber Optic Cable Splicing <small>(27 14 23 13)</small>		
27 14 23 13-0029 EA Single Strand, Fusion Splice Of Fiber Optic Cable	28.95	
27 14 23 13-0030 EA 12-Strand Ribbon, Fusion Splice Of Fiber Optic Cable.....	96.51	
27 14 23 13-0031 Fiber Optic Cable Testing <small>(27 14 23 13)</small>		
<small>Note: Price based on testing one wavelength.</small>		
27 14 23 13-0032 Fiber Optic Cable Testing Using An OTDR <small>(27 14 23 13-0031)</small>		
<small>Note: Testing using an optical time domain reflectometer.</small>		
27 14 23 13-0033 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test	19.30	
<i>For >12 To 48 Strands, Deduct</i>		-1.45
<i>For >48 Strands, Deduct</i>		-1.93
27 14 23 13-0034 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test	28.95	
<i>For >12 To 48 Strands, Deduct</i>		-2.17
<i>For >48 Strands, Deduct</i>		-2.90
27 14 23 13-0035 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test With Documentation	48.25	
<i>For >12 To 48 Strands, Deduct</i>		-3.62
<i>For >48 Strands, Deduct</i>		-4.83
27 14 23 13-0036 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test With Documentation	72.38	
<i>For >12 To 48 Strands, Deduct</i>		-5.43
<i>For >48 Strands, Deduct</i>		-7.24
27 14 23 13-0037 Fiber Optic Cable Testing Using A Power Meter <small>(27 14 23 13-0031)</small>		
27 14 23 13-0038 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional Power Meter Test	19.30	
<i>For >12 To 48 Strands, Deduct</i>		-1.45
<i>For >48 Strands, Deduct</i>		-1.93
27 14 23 13-0039 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional Power Meter Test	28.95	
<i>For >12 To 48 Strands, Deduct</i>		-2.17
<i>For >48 Strands, Deduct</i>		-2.90
27 14 23 13-0040 Fiber Optic Cable Light Source/Continuity Testing <small>(27 14 23 13-0031)</small>		
27 14 23 13-0041 EA Test 1-Strand Of Fiber Optic Cable Using A Light Source/Continuity Test	19.30	
<i>For >12 To 48 Strands, Deduct</i>		-1.45
<i>For >48 Strands, Deduct</i>		-1.93
27 14 23 13-0042 Other Fiber Optic Cable Equipment <small>(27 14 23 13)</small>		
27 14 23 13-0043 EA 8 Port Ethernet Switch	682.21	189.85
27 14 23 13-0044 EA 18 dBi Gain, 5.25-5.85 GHz Band, 18 Degree Beamwidth.....	915.16	189.85
<small>Note: Patch antenna with 1 meter 3' SMA-N cable</small>		
27 14 23 13-0045 EA Outdoor Multi Band 5.3 Or 5.8 GHz Wireless Ethernet Bridge	19,841.18	189.85
<small>Note: 8VDC input</small>		
27 14 23 13-0046 EA UPS, 500 VA 300 Watt UPS For CCTV, Edco PA400-120U	210.64	23.77
27 14 23 13-0047 EA Hardened Ethernet Switch.....	2,136.48	95.04
27 14 23 13-0048 EA 1,440 Watt, 120 Volt AC Solar Power Station.....	55,221.45	2,281.01
27 14 23 13-0049 EA 2,880 Watt, 120 Volt AC Solar Power Station.....	68,703.24	3,041.35
27 14 23 13-0050 EA Fiber Break Out Box For 24 Fiber.....	984.27	190.08
27 14 23 13-0051 EA Fiber Optic MM Data (PTZ or SYNC) 1300 Video 850, 1 Fiber, RM.....	1,059.99	95.04
27 14 23 13-0052 EA Fiber Optic MM Data (PTZ or SYNC) 850 Video 850, 2 Fibers.....	896.88	95.04
27 14 23 13-0053 EA Fiber Optic 19" Rack, 115 Volt AC Input.....	1,155.03	142.56

27 Communications
27 10 Structured Cabling
27 14 Communications Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 13-0054 EA Commercial Gigabit Media Converter, Ethernet RJ45 to Fiber Optic. Shelf, Wall or Chassis Mount, 100VAC - 260VAC, Power Module Included. Gigabit Ports: 1 x 1000TX & 1 x 1000LX SM 20KM, (Etherwan Systems).....	847.99	
27 14 23 13-0055 EA Media Converter Chassis (Etherwan Systems), 16 Slots for any Standard Size Media Converter, 19" Rack Mount Redundant Power Supplies, Power Option 100VAC - 260VAC.....	847.99	
27 14 23 13-0056 Other Fiber Optic Cable Splicing (27 14 23 13)		
27 14 23 13-0057 EA Fiber Optic Finger Splice	32.23	18.14
27 14 23 13-0058 EA Fiber Optic Splice Box - Manholes.....	4,600.55	
27 14 23 16 Communications Optical Fiber Cabling (27 14 23)		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 14 23 16-0001 Indoor Fiber Optic Cable (27 14 23 16)		
Note: Distribution cables contain multiple tight-buffered fibers bundled under the same jacket with Kevlar strength members. Break-out cables contain multiple individually reinforced and jacketed simplex cables bundled together.		
27 14 23 16-0002 Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0001)		
Note: Excludes conduit or innerduct.		
27 14 23 16-0003 Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0002)		
27 14 23 16-0004 Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0003)		
27 14 23 16-0005 Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0004)		
27 14 23 16-0006 MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	859.31	347.41
27 14 23 16-0007 MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	943.78	347.41
27 14 23 16-0008 MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	971.99	347.41
27 14 23 16-0009 MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,072.43	347.41
<i>For Aluminum Armored Cable, Add</i>		
	886.13	
<i>For Steel Armored Cable, Add</i>		
	3,180.84	
27 14 23 16-0010 MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,101.23	347.41
27 14 23 16-0011 MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,275.31	347.41
<i>For Aluminum Armored Cable, Add</i>		
	953.58	
<i>For Steel Armored Cable, Add</i>		
	3,494.50	
27 14 23 16-0012 MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,214.39	405.31
27 14 23 16-0013 MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,144.29	405.31
<i>For Aluminum Armored Cable With Sub-Units, Add</i>		
	932.12	
<i>For Steel Armored Cable, Add</i>		
	6,062.44	
27 14 23 16-0014 MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,851.02	405.31
<i>For Aluminum Armored Cable With Sub-Units, Add</i>		
	889.07	
<i>For Steel Armored Cable, Add</i>		
	6,342.88	
27 14 23 16-0015 MLF 48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,988.09	405.31
<i>For Aluminum Armored Cable With Sub-Units, Add</i>		
	935.94	
<i>For Steel Armored Cable, Add</i>		
	6,631.37	
27 14 23 16-0016 MLF 60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,852.47	405.31
27 14 23 16-0017 MLF 72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,082.33	405.31
27 14 23 16-0018 MLF 96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,291.43	405.31
27 14 23 16-0019 MLF 120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,466.41	463.21
27 14 23 16-0020 MLF 144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,115.21	463.21
27 14 23 16-0021 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 14 23 16-0004)		
27 14 23 16-0022 MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	883.63	347.41
27 14 23 16-0023 MLF 2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	931.01	347.41
27 14 23 16-0024 MLF 4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,140.01	347.41
27 14 23 16-0025 MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,360.01	347.41
<i>For Aluminum Armored Cable, Add</i>		
	944.74	
<i>For Steel Armored Cable, Add</i>		
	1,208.86	
27 14 23 16-0026 MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,569.01	347.41
27 14 23 16-0027 MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,998.01	347.41
<i>For Aluminum Armored Cable, Add</i>		
	1,021.22	
<i>For Steel Armored Cable, Add</i>		
	1,365.36	
27 14 23 16-0028 MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,204.51	405.31
27 14 23 16-0029 MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,755.51	405.31
<i>For Aluminum Armored Cable With Sub-Units, Add</i>		
	704.27	
<i>For Steel Armored Cable, Add</i>		
	704.27	
27 14 23 16-0030 MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,295.51	405.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0031 MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,835.51	405.31
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,256.30	
27 14 23 16-0032 MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,375.51	405.31
27 14 23 16-0033 MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,915.51	405.31
27 14 23 16-0034 MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	13,006.51	405.31
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	5,421.08	
27 14 23 16-0035 MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	16,183.01	463.21
27 14 23 16-0036 MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	19,263.01	463.21
27 14 23 16-0037 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0004)</small>		
27 14 23 16-0038 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	898.86	347.41
27 14 23 16-0039 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	948.61	347.41
27 14 23 16-0040 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,168.06	347.41
27 14 23 16-0041 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,399.06	347.41
27 14 23 16-0042 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,618.51	347.41
27 14 23 16-0043 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,068.96	347.41
27 14 23 16-0044 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,280.96	405.31
27 14 23 16-0045 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,909.51	405.31
27 14 23 16-0046 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,526.51	405.31
27 14 23 16-0047 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,143.51	405.31
27 14 23 16-0048 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,760.51	405.31
27 14 23 16-0049 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	10,377.51	405.31
27 14 23 16-0050 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	13,623.06	405.31
27 14 23 16-0051 MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	16,953.56	463.21
27 14 23 16-0052 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	20,187.56	463.21
27 14 23 16-0053 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0003)</small>		
27 14 23 16-0054 Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0053)</small>		
27 14 23 16-0055 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,642.23	347.41
27 14 23 16-0056 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,957.27	347.41
27 14 23 16-0057 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,650.35	347.41
27 14 23 16-0058 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,981.11	347.41
27 14 23 16-0059 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,234.48	347.41
27 14 23 16-0060 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,519.13	405.31
27 14 23 16-0061 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,970.91	405.31
27 14 23 16-0062 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,850.82	405.31
27 14 23 16-0063 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	12,095.44	405.31
27 14 23 16-0064 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0053)</small>		
27 14 23 16-0065 MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,770.63	347.41
27 14 23 16-0066 MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,146.35	347.41
27 14 23 16-0067 MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,765.81	347.41
27 14 23 16-0068 MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,686.51	347.41
27 14 23 16-0069 MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,066.31	347.41
27 14 23 16-0070 MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,434.11	405.31
27 14 23 16-0071 MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,809.46	405.31
27 14 23 16-0072 MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,757.31	405.31
27 14 23 16-0073 MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,807.51	405.31



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 14 23 16-0074	62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0053)</small>		
27 14 23 16-0075	MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,830.21	347.41
27 14 23 16-0076	MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,224.71	347.41
27 14 23 16-0077	MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,875.15	347.41
27 14 23 16-0078	MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,841.89	347.41
27 14 23 16-0079	MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,240.67	347.41
27 14 23 16-0080	MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,672.04	405.31
27 14 23 16-0081	MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,116.16	405.31
27 14 23 16-0082	MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,111.40	405.31
27 14 23 16-0083	MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	12,364.11	405.31
27 14 23 16-0084	Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0002)</small>		
27 14 23 16-0085	Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0084)</small>		
27 14 23 16-0086	Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0085)</small>		
27 14 23 16-0087	MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	856.91	347.41
27 14 23 16-0088	MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	861.11	347.41
27 14 23 16-0089	MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,081.26	347.41
27 14 23 16-0090	MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,107.02	347.41
	<i>For Aluminum Armored Cable, Add</i>	988.85	
	<i>For Steel Armored Cable, Add</i>	3,539.79	
27 14 23 16-0091	MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,236.70	347.41
27 14 23 16-0092	MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,260.96	347.41
	<i>For Aluminum Armored Cable, Add</i>	1,046.17	
	<i>For Steel Armored Cable, Add</i>	3,772.00	
27 14 23 16-0093	MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,898.71	405.31
27 14 23 16-0094	MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,732.41	405.31
	<i>For Aluminum Armored Cable With Sub-Units, Add</i>	370.52	
	<i>For Steel Armored Cable, Add</i>	3,400.82	
27 14 23 16-0095	MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,939.12	405.31
27 14 23 16-0096	MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,094.56	405.31
	<i>For Aluminum Armored Cable With Sub-Units, Add</i>	481.25	
	<i>For Steel Armored Cable, Add</i>	3,872.02	
27 14 23 16-0097	MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,359.56	405.31
27 14 23 16-0098	MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,710.18	405.31
27 14 23 16-0099	MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,517.04	405.31
27 14 23 16-0100	50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0085)</small>		
27 14 23 16-0101	MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	881.99	347.41
27 14 23 16-0102	MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,001.74	347.41
27 14 23 16-0103	MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,260.71	347.41
27 14 23 16-0104	MLF 6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,524.87	347.41
	<i>For Aluminum Armored Cable, Add</i>	782.39	
	<i>For Steel Armored Cable, Add</i>	1,104.93	
27 14 23 16-0105	MLF 8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,777.99	347.41
27 14 23 16-0106	MLF 12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,997.91	347.41
	<i>For Aluminum Armored Cable, Add</i>	999.34	
	<i>For Steel Armored Cable, Add</i>	1,365.46	
27 14 23 16-0107	MLF 18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,527.27	405.31
27 14 23 16-0108	MLF 24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,405.67	405.31
	<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,480.05	
	<i>For Steel Armored Cable, Add</i>	1,480.05	
27 14 23 16-0109	MLF 36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,270.75	405.31



Communications	27	27
Structured Cabling	27 10	
Communications Cabling	27 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0110 MLF 48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,135.83	405.31
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	<i>1,410.22</i>	
27 14 23 16-0111 MLF 60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,000.91	405.31
27 14 23 16-0112 MLF 72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,865.99	405.31
27 14 23 16-0113 MLF 96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	15,609.47	405.31
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	<i>2,818.12</i>	
27 14 23 16-0114 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0085)</small>		
27 14 23 16-0115 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	897.14	347.41
27 14 23 16-0116 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,022.88	347.41
27 14 23 16-0117 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,294.80	347.41
27 14 23 16-0118 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,572.17	347.41
27 14 23 16-0119 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,837.94	347.41
27 14 23 16-0120 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,068.85	347.41
27 14 23 16-0121 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,619.86	405.31
27 14 23 16-0122 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,592.18	405.31
27 14 23 16-0123 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,550.51	405.31
27 14 23 16-0124 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,508.85	405.31
27 14 23 16-0125 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,467.18	405.31
27 14 23 16-0126 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,425.51	405.31
27 14 23 16-0127 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	16,356.17	405.31
27 14 23 16-0128 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0084)</small>		
27 14 23 16-0129 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0128)</small>		
27 14 23 16-0130 MLF 2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,605.70	347.41
27 14 23 16-0131 MLF 4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,989.01	347.41
27 14 23 16-0132 MLF 6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,910.48	347.41
27 14 23 16-0133 MLF 8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,813.55	347.41
27 14 23 16-0134 MLF 12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,254.83	347.41
27 14 23 16-0135 MLF 18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,929.35	405.31
27 14 23 16-0136 MLF 24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,898.26	405.31
27 14 23 16-0137 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	15,613.31	405.31
27 14 23 16-0138 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	19,493.46	405.31
27 14 23 16-0139 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0128)</small>		
27 14 23 16-0140 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,968.56	347.41
27 14 23 16-0141 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,666.38	347.41
27 14 23 16-0142 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,911.96	347.41
27 14 23 16-0143 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,546.78	347.41
27 14 23 16-0144 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,490.49	347.41
27 14 23 16-0145 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,908.51	405.31
27 14 23 16-0146 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,725.40	405.31
27 14 23 16-0147 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,489.36	405.31
27 14 23 16-0148 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,260.55	405.31
27 14 23 16-0149 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0128)</small>		

27	Communications
27 10	Structured Cabling
27 14	Communications Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0150 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,088.04	347.41
27 14 23 16-0151 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,820.75	347.41
27 14 23 16-0152 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,128.61	347.41
27 14 23 16-0153 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,795.17	347.41
27 14 23 16-0154 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,736.06	347.41
27 14 23 16-0155 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,320.16	405.31
27 14 23 16-0156 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,127.90	405.31
27 14 23 16-0157 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	12,030.06	405.31
27 14 23 16-0158 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	19,139.80	405.31
27 14 23 16-0159 Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0001)</small> Note: For non-conduit installations such as cable trays, surface runways, etc.		
27 14 23 16-0160 Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0159)</small>		
27 14 23 16-0161 Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0160)</small>		
27 14 23 16-0162 Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0161)</small>		
27 14 23 16-0163 MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,052.31	463.21
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0164 MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,136.78	463.21
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0165 MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,164.99	463.21
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0166 MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,265.43	463.21
<i>For Aluminum Armored Cable, Add</i>	886.13	
<i>For Steel Armored Cable, Add</i>	3,180.84	
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0167 MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,294.23	463.21
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0168 MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,468.31	463.21
<i>For Aluminum Armored Cable, Add</i>	953.58	
<i>For Steel Armored Cable, Add</i>	3,494.50	
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0169 MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	2,407.40	521.11
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0170 MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	3,337.30	521.11
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	932.12	
<i>For Steel Armored Cable, Add</i>	6,062.44	
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0171 MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	4,044.03	521.11
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	889.07	
<i>For Steel Armored Cable, Add</i>	6,342.88	
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0172 MLF 48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	4,181.10	521.11
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	935.94	
<i>For Steel Armored Cable, Add</i>	6,631.37	
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0173 MLF 60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	5,045.48	521.11
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0174 MLF 72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	5,275.34	521.11
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0175 MLF 96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	6,484.44	521.11
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0176 MLF 120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	8,659.41	579.01
<i>For Work In Restricted Working Space, Add</i>	289.50	
27 14 23 16-0177 MLF 144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	10,308.21	579.01
<i>For Work In Restricted Working Space, Add</i>	289.50	
27 14 23 16-0178 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0161)</small>		
27 14 23 16-0179 MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,076.63	463.21
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0180 MLF 2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,124.01	463.21
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0181 MLF 4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,333.01	463.21
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0182 MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,553.01	463.21
<i>For Aluminum Armored Cable, Add</i>	944.74	
<i>For Steel Armored Cable, Add</i>	1,208.86	
<i>For Work In Restricted Working Space, Add</i>	231.60	



Communications	27
Structured Cabling	27 10
Communications Cabling	27 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0183 MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,762.01 231.60	463.21
27 14 23 16-0184 MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,191.01 1,021.22 1,365.36 231.60	463.21
27 14 23 16-0185 MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,397.52 260.56	521.11
27 14 23 16-0186 MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,948.52 704.27 704.27 260.56	521.11
27 14 23 16-0187 MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,488.52 260.56	521.11
27 14 23 16-0188 MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,028.52 1,256.30 260.56	521.11
27 14 23 16-0189 MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,568.52 260.56	521.11
27 14 23 16-0190 MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,108.52 260.56	521.11
27 14 23 16-0191 MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	13,199.52 5,421.08 260.56	521.11
27 14 23 16-0192 MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	16,376.01 289.50	579.01
27 14 23 16-0193 MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	19,456.01 289.50	579.01
27 14 23 16-0194 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0161)</small>		
27 14 23 16-0195 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,091.86 231.60	463.21
27 14 23 16-0196 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,141.61 231.60	463.21
27 14 23 16-0197 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,361.06 231.60	463.21
27 14 23 16-0198 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,592.06 231.60	463.21
27 14 23 16-0199 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,811.51 231.60	463.21
27 14 23 16-0200 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	2,261.96 231.60	463.21
27 14 23 16-0201 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	2,473.97 260.56	521.11
27 14 23 16-0202 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	4,102.52 260.56	521.11
27 14 23 16-0203 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	5,719.52 260.56	521.11
27 14 23 16-0204 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	7,336.52 260.56	521.11
27 14 23 16-0205 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	8,953.52 260.56	521.11
27 14 23 16-0206 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	10,570.52 260.56	521.11
27 14 23 16-0207 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	13,816.07 260.56	521.11
27 14 23 16-0208 MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	17,146.56 289.50	579.01
27 14 23 16-0209 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	20,380.56 289.50	579.01
27 14 23 16-0210 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0160)</small>		



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 14 23 16-0211	Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0210)</small>		
27 14 23 16-0212	MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,835.23	463.21
	<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0213	MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,150.27	463.21
	<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0214	MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,843.35	463.21
	<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0215	MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,174.11	463.21
	<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0216	MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,427.48	463.21
	<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0217	MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,712.14	521.11
	<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0218	MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,163.92	521.11
	<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0219	MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	10,043.83	521.11
	<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0220	MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	12,288.45	521.11
	<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0221	50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0210)</small>		
27 14 23 16-0222	MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,963.63	463.21
	<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0223	MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,339.35	463.21
	<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0224	MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,958.81	463.21
	<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0225	MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,879.51	463.21
	<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0226	MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,259.31	463.21
	<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0227	MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,627.12	521.11
	<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0228	MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,002.47	521.11
	<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0229	MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,950.32	521.11
	<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0230	MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	12,000.52	521.11
	<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0231	62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0210)</small>		
27 14 23 16-0232	MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,023.21	463.21
	<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0233	MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,417.71	463.21
	<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0234	MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,068.15	463.21
	<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0235	MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,034.89	463.21
	<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0236	MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,433.67	463.21
	<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0237	MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,865.05	521.11
	<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0238	MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,309.17	521.11
	<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0239	MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,304.41	521.11
	<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0240	MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	12,557.12	521.11
	<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0241	Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0159)</small>		
27 14 23 16-0242	Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0241)</small>		
27 14 23 16-0243	Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0242)</small>		
27 14 23 16-0244	MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,049.91	463.21
	<i>For Work In Restricted Working Space, Add</i>	231.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0245 MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,054.11 231.60	463.21
27 14 23 16-0246 MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,274.26 231.60	463.21
27 14 23 16-0247 MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,300.02 988.85 3,539.79 231.60	463.21
27 14 23 16-0248 MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,429.70 231.60	463.21
27 14 23 16-0249 MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,453.96 1,046.17 3,772.00 231.60	463.21
27 14 23 16-0250 MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,091.72 260.56	521.11
27 14 23 16-0251 MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,925.42 370.52 3,400.82 260.56	521.11
27 14 23 16-0252 MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,132.13 260.56	521.11
27 14 23 16-0253 MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,287.57 481.25 3,872.02 260.56	521.11
27 14 23 16-0254 MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,552.57 260.56	521.11
27 14 23 16-0255 MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,903.19 260.56	521.11
27 14 23 16-0256 MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,710.05 260.56	521.11
27 14 23 16-0257 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0242)</small>		
27 14 23 16-0258 MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,074.99 231.60	463.21
27 14 23 16-0259 MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,194.74 231.60	463.21
27 14 23 16-0260 MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,453.71 231.60	463.21
27 14 23 16-0261 MLF 6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,717.87 782.39 1,104.93 231.60	463.21
27 14 23 16-0262 MLF 8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,970.99 231.60	463.21
27 14 23 16-0263 MLF 12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,190.91 999.34 1,365.46 231.60	463.21
27 14 23 16-0264 MLF 18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,720.28 260.56	521.11
27 14 23 16-0265 MLF 24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,598.68 1,480.05 1,480.05 260.56	521.11
27 14 23 16-0266 MLF 36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,463.76 260.56	521.11
27 14 23 16-0267 MLF 48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,328.84 1,410.22 260.56	521.11
27 14 23 16-0268 MLF 60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,193.92 260.56	521.11
27 14 23 16-0269 MLF 72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i> <i>For Work In Restricted Working Space, Add</i>	12,059.00 260.56 260.56	521.11
27 14 23 16-0270 MLF 96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i> <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	15,802.48 260.56 2,818.12 260.56	521.11

27 Communications
27 10 Structured Cabling
 27 14 Communications Cabling



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0271			62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0242)</small>		
27 14 23 16-0272	MLF		1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,090.14	463.21
			<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0273	MLF		2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,215.88	463.21
			<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0274	MLF		4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,487.80	463.21
			<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0275	MLF		6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,765.17	463.21
			<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0276	MLF		8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,030.94	463.21
			<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0277	MLF		12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,261.85	463.21
			<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0278	MLF		18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,812.87	521.11
			<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0279	MLF		24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,785.19	521.11
			<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0280	MLF		36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,743.52	521.11
			<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0281	MLF		48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,701.86	521.11
			<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0282	MLF		60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	10,660.19	521.11
			<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0283	MLF		72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	12,618.52	521.11
			<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0284	MLF		96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	16,549.18	521.11
			<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0285			Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0241)</small>		
27 14 23 16-0286			Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0285)</small>		
27 14 23 16-0287	MLF		2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,798.70	463.21
			<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0288	MLF		4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,182.01	463.21
			<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0289	MLF		6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,103.48	463.21
			<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0290	MLF		8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,006.55	463.21
			<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0291	MLF		12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,447.83	463.21
			<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0292	MLF		18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,122.36	521.11
			<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0293	MLF		24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	13,091.27	521.11
			<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0294	MLF		36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	15,806.32	521.11
			<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0295	MLF		48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	19,686.47	521.11
			<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0296			50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0285)</small>		
27 14 23 16-0297	MLF		2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,161.56	463.21
			<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0298	MLF		4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,859.38	463.21
			<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0299	MLF		6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,104.96	463.21
			<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0300	MLF		8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,739.78	463.21
			<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0301	MLF		12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,683.49	463.21
			<i>For Work In Restricted Working Space, Add</i>	231.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0302 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	9,101.52	521.11
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0303 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	8,918.41	521.11
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0304 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	11,682.37	521.11
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0305 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	18,453.56	521.11
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0306 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0285)</small>		
27 14 23 16-0307 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	3,281.04	463.21
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0308 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	4,013.75	463.21
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0309 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	5,321.61	463.21
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0310 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	5,988.17	463.21
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0311 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	5,929.06	463.21
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0312 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	9,513.17	521.11
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0313 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	9,320.91	521.11
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0314 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	12,223.07	521.11
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0315 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	19,332.81	521.11
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0316 Hybrid, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0001)</small>		
Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 14 23 16-0317 Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0316)</small>		
27 14 23 16-0318 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	1,265.53	347.41
27 14 23 16-0319 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	2,194.01	347.41
27 14 23 16-0320 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	5,149.43	405.31
27 14 23 16-0321 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	8,166.79	405.31
27 14 23 16-0322 Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0316)</small>		
27 14 23 16-0323 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	1,522.39	347.41
27 14 23 16-0324 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	2,230.15	347.41
27 14 23 16-0325 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	6,127.89	405.31
27 14 23 16-0326 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	10,632.38	405.31
27 14 23 16-0327 Hybrid, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0001)</small>		
Note: Singlemode and multimode combination cable. For non-conduit installations such as cable trays, surface runways, etc.		
27 14 23 16-0328 Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0327)</small>		
27 14 23 16-0329 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed	1,458.53	463.21
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0330 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed	2,387.01	463.21
<i>For Work In Restricted Working Space, Add</i>	231.60	

27	Communications
27 10	Structured Cabling
27 14	Communications Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0331 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed.....	5,342.44	521.11
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0332 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed.....	8,359.80	521.11
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0333 Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <small>(27 14 23 16-0327)</small>		
27 14 23 16-0334 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed.....	1,715.39	463.21
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0335 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed.....	2,423.15	463.21
<i>For Work In Restricted Working Space, Add</i>	231.60	
27 14 23 16-0336 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed.....	6,320.90	521.11
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0337 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed.....	10,825.39	521.11
<i>For Work In Restricted Working Space, Add</i>	260.56	
27 14 23 16-0338 Outdoor Fiber Optic Cable <small>(27 14 23 16)</small>		
Note: Cable buried in trench excludes excavation.		
27 14 23 16-0339 Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0338)</small>		
Note: Excludes conduit or innerduct.		
27 14 23 16-0340 Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0339)</small>		
27 14 23 16-0341 Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0340)</small>		
27 14 23 16-0342 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	1,661.08	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	245.73	
27 14 23 16-0343 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	1,691.67	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	247.76	
27 14 23 16-0344 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	1,722.31	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	249.73	
27 14 23 16-0345 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	1,752.92	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	252.12	
27 14 23 16-0346 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	1,813.75	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	228.14	
27 14 23 16-0347 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	1,938.18	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	254.18	
27 14 23 16-0348 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,002.14	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	200.10	
27 14 23 16-0349 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,021.87	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	233.89	
27 14 23 16-0350 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,387.93	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	257.31	
27 14 23 16-0351 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,589.74	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	257.29	
27 14 23 16-0352 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,851.58	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	304.09	
27 14 23 16-0353 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	3,312.54	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	291.96	
27 14 23 16-0354 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	3,816.20	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	354.52	
27 14 23 16-0355 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	4,343.34	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	237.32	
27 14 23 16-0356 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0340)</small>		
27 14 23 16-0357 MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	1,972.02	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	44.00	
27 14 23 16-0358 MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,018.22	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	74.80	
27 14 23 16-0359 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,115.02	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	121.00	
27 14 23 16-0360 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,247.02	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	22.00	
27 14 23 16-0361 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,302.02	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	44.00	
27 14 23 16-0362 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,489.02	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	66.00	
27 14 23 16-0363 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,885.02	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	44.00	
27 14 23 16-0364 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	3,468.02	694.82
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	132.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0365 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,117.02 44.00	694.82
27 14 23 16-0366 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,568.02 132.00	694.82
27 14 23 16-0367 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,151.02 517.00	694.82
27 14 23 16-0368 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,504.02 176.00	694.82
27 14 23 16-0369 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,846.02 209.00	694.82
27 14 23 16-0370 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,188.02 253.00	694.82
27 14 23 16-0371 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0340)</small>		
27 14 23 16-0372 MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,448.81 105.08	694.82
27 14 23 16-0373 MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,549.84 112.69	694.82
27 14 23 16-0374 MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,650.71 120.11	694.82
27 14 23 16-0375 MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,775.33 136.74	694.82
27 14 23 16-0376 MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,953.80 142.59	694.82
27 14 23 16-0377 MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,269.32 151.97	694.82
27 14 23 16-0378 MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,568.21 174.76	694.82
27 14 23 16-0379 MLF 36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,140.23 194.20	694.82
27 14 23 16-0380 MLF 48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,809.30 223.29	694.82
27 14 23 16-0381 MLF 60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,427.27 240.27	694.82
27 14 23 16-0382 MLF 72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,079.51 271.95	694.82
27 14 23 16-0383 MLF 96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,398.69 305.77	694.82
27 14 23 16-0384 MLF 120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,739.04 347.02	694.82
27 14 23 16-0385 MLF 144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,100.08 318.76	694.82
27 14 23 16-0386 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0339)</small>		
27 14 23 16-0387 Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0386)</small>		
27 14 23 16-0388 MLF 2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,836.27 194.18	694.82
27 14 23 16-0389 MLF 4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,895.92 278.71	694.82
27 14 23 16-0390 MLF 6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,913.83 267.11	694.82
27 14 23 16-0391 MLF 8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,985.29 222.36	694.82
27 14 23 16-0392 MLF 12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,007.59 265.75	694.82
27 14 23 16-0393 MLF 18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,107.74 252.05	694.82
27 14 23 16-0394 MLF 24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,197.53 255.04	694.82
27 14 23 16-0395 MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,340.78 323.42	694.82
27 14 23 16-0396 MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,542.59 327.64	694.82
27 14 23 16-0397 MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,743.63 339.43	694.82
27 14 23 16-0398 MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,016.17 291.97	694.82
27 14 23 16-0399 MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,457.03 380.77	694.82
27 14 23 16-0400 MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,033.79 374.94	694.82
27 14 23 16-0401 MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,505.77 299.50	694.82
27 14 23 16-0402 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0386)</small>		

27	Communications
27 10	Structured Cabling
27 14	Communications Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0403 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,037.38 274.80	694.82
27 14 23 16-0404 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,246.23 153.89	694.82
27 14 23 16-0405 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,521.03 32.98	694.82
27 14 23 16-0406 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,652.93 54.96	694.82
27 14 23 16-0407 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,784.84 54.96	694.82
27 14 23 16-0408 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,092.61 65.95	694.82
27 14 23 16-0409 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,367.41 252.82	694.82
27 14 23 16-0410 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,960.98 494.64	694.82
27 14 23 16-0411 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,554.55 824.40	694.82
27 14 23 16-0412 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,049.19 906.84	694.82
27 14 23 16-0413 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,697.72 1,154.16	694.82
27 14 23 16-0414 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,049.73 1,703.76	694.82
27 14 23 16-0415 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,731.24 1,286.06	694.82
27 14 23 16-0416 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,478.96 3,132.72	694.82
27 14 23 16-0417 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0386)</small>		
27 14 23 16-0418 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,517.03 131.90	694.82
27 14 23 16-0419 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,615.96 142.59	694.82
27 14 23 16-0420 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,714.72 153.26	694.82
27 14 23 16-0421 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,813.65 163.92	694.82
27 14 23 16-0422 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,069.92 176.31	694.82
27 14 23 16-0423 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,321.21 206.61	694.82
27 14 23 16-0424 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,629.12 224.41	694.82
27 14 23 16-0425 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,225.12 277.27	694.82
27 14 23 16-0426 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,832.26 317.68	694.82
27 14 23 16-0427 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,441.50 353.76	694.82
27 14 23 16-0428 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,082.10 394.49	694.82
27 14 23 16-0429 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,382.04 465.16	694.82
27 14 23 16-0430 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,059.90 480.86	694.82
27 14 23 16-0431 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,043.19 496.40	694.82
27 14 23 16-0432 Outdoor Fiber Optic Cable, Buried In Trench <small>(27 14 23 16-0338)</small> Note: Excludes trenching.		
27 14 23 16-0433 Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 14 23 16-0432)</small>		
27 14 23 16-0434 Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 14 23 16-0433)</small>		
27 14 23 16-0435 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,564.58 245.73	
27 14 23 16-0436 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,595.17 247.76	
27 14 23 16-0437 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,625.81 249.73	
27 14 23 16-0438 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,656.42 252.12	
27 14 23 16-0439 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,717.25 228.14	
27 14 23 16-0440 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,841.68 254.18	
27 14 23 16-0441 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,905.64 200.10	



Communications	27
Structured Cabling	27 10
Communications Cabling	27 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0442 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,925.37 233.89	
27 14 23 16-0443 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,291.43 257.31	
27 14 23 16-0444 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,750.53 257.29	
27 14 23 16-0445 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,059.17 304.09	
27 14 23 16-0446 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,216.04 291.96	
27 14 23 16-0447 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,719.70 354.52	
27 14 23 16-0448 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,246.84 237.32	
27 14 23 16-0449 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 14 23 16-0433)</small>		
27 14 23 16-0450 MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,875.52 44.00	
27 14 23 16-0451 MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,921.72 74.80	
27 14 23 16-0452 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,018.52 121.00	
27 14 23 16-0453 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,150.52 22.00	
27 14 23 16-0454 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,205.52 44.00	
27 14 23 16-0455 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,392.52 66.00	
27 14 23 16-0456 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,788.52 44.00	
27 14 23 16-0457 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,371.52 132.00	
27 14 23 16-0458 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,020.52 44.00	
27 14 23 16-0459 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,471.52 132.00	
27 14 23 16-0460 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,054.52 517.00	
27 14 23 16-0461 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,407.52 176.00	
27 14 23 16-0462 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,749.52 209.00	
27 14 23 16-0463 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,091.52 253.00	
27 14 23 16-0464 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 14 23 16-0433)</small>		
27 14 23 16-0465 MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,352.31 105.08	
27 14 23 16-0466 MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,453.34 112.69	
27 14 23 16-0467 MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,554.21 120.11	
27 14 23 16-0468 MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,678.83 136.74	
27 14 23 16-0469 MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,857.30 142.59	
27 14 23 16-0470 MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,172.82 151.97	
27 14 23 16-0471 MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,471.71 174.76	
27 14 23 16-0472 MLF 36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,043.73 194.20	
27 14 23 16-0473 MLF 48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,712.80 223.29	
27 14 23 16-0474 MLF 60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,330.77 240.27	
27 14 23 16-0475 MLF 72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,983.01 271.95	
27 14 23 16-0476 MLF 96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,302.19 305.77	
27 14 23 16-0477 MLF 120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,642.54 347.02	
27 14 23 16-0478 MLF 144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,003.58 318.76	
27 14 23 16-0479 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 14 23 16-0432)</small>		



MINOR
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TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 14 23 16-0480	Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 14 23 16-0479)		
27 14 23 16-0481	MLF 2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	1,739.77	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	194.18	
27 14 23 16-0482	MLF 4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	1,799.42	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	278.71	
27 14 23 16-0483	MLF 6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	1,817.33	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	267.11	
27 14 23 16-0484	MLF 8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	1,888.79	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	222.36	
27 14 23 16-0485	MLF 12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	1,911.09	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	265.75	
27 14 23 16-0486	MLF 18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	2,011.24	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	252.05	
27 14 23 16-0487	MLF 24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	2,101.03	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	255.04	
27 14 23 16-0488	MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	2,244.28	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	323.42	
27 14 23 16-0489	MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	2,446.09	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	327.64	
27 14 23 16-0490	MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	2,647.13	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	339.43	
27 14 23 16-0491	MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	2,919.67	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	291.97	
27 14 23 16-0492	MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	3,360.53	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	380.77	
27 14 23 16-0493	MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	3,937.29	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	374.94	
27 14 23 16-0494	MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	4,409.27	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	299.50	
27 14 23 16-0495	50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 14 23 16-0479)		
27 14 23 16-0496	MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	1,940.88	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	274.80	
27 14 23 16-0497	MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	2,149.73	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	153.89	
27 14 23 16-0498	MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	2,424.53	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	32.98	
27 14 23 16-0499	MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	2,556.43	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	54.96	
27 14 23 16-0500	MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	2,688.34	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	54.96	
27 14 23 16-0501	MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	2,996.11	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	65.95	
27 14 23 16-0502	MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	3,270.91	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	252.82	
27 14 23 16-0503	MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	3,864.48	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	494.64	
27 14 23 16-0504	MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	4,458.05	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	824.40	
27 14 23 16-0505	MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	4,952.69	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	906.84	
27 14 23 16-0506	MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	5,601.22	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,154.16	
27 14 23 16-0507	MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	6,953.23	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,703.76	
27 14 23 16-0508	MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	7,634.74	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,286.06	
27 14 23 16-0509	MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	9,382.46	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,132.72	
27 14 23 16-0510	62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 14 23 16-0479)		
27 14 23 16-0511	MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	1,420.53	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	131.90	
27 14 23 16-0512	MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	1,519.46	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	142.59	
27 14 23 16-0513	MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	1,618.22	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	153.26	
27 14 23 16-0514	MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	1,717.15	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	163.92	
27 14 23 16-0515	MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	1,973.42	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	176.31	
27 14 23 16-0516	MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	2,224.71	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	206.61	
27 14 23 16-0517	MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	2,532.62	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	224.41	
27 14 23 16-0518	MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench	3,128.62	
	<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	277.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 23 16-0519 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,735.76 317.68	
27 14 23 16-0520 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,345.00 353.76	
27 14 23 16-0521 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,985.60 394.49	
27 14 23 16-0522 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,285.54 465.16	
27 14 23 16-0523 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,670.50 480.86	
27 14 23 16-0524 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,946.69 496.40	
27 14 23 16-0525 (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <small>(27 14 23 16-0338)</small>		
27 14 23 16-0526 Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <small>(27 14 23 16-0525)</small>		
27 14 23 16-0527 Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <small>(27 14 23 16-0526)</small>		
27 14 23 16-0528 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,577.91 164.35	2,558.67
27 14 23 16-0529 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,608.31 168.61	2,558.67
27 14 23 16-0530 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,639.11 172.75	2,558.67
27 14 23 16-0531 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,669.51 169.44	2,558.67
27 14 23 16-0532 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,730.33 197.54	2,558.67
27 14 23 16-0533 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,850.43 205.36	2,558.67
27 14 23 16-0534 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,942.02 226.98	2,558.67
27 14 23 16-0535 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,159.80 217.64	2,558.67
27 14 23 16-0536 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,350.24 252.85	2,558.67
27 14 23 16-0537 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,507.68 242.46	2,558.67
27 14 23 16-0538 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,704.08 277.21	2,558.67
27 14 23 16-0539 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,219.52 281.55	2,558.67
27 14 23 16-0540 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,772.54 335.96	2,558.67
27 14 23 16-0541 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,905.12 360.75	2,558.67
27 14 23 16-0542 Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0338)</small> Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 14 23 16-0543 Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0542)</small>		
27 14 23 16-0544 MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit.....	3,281.39	579.01
27 14 23 16-0545 MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	4,171.31	579.01
27 14 23 16-0546 MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	6,153.75	579.01
27 14 23 16-0547 Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 14 23 16-0542)</small>		
27 14 23 16-0548 MLF 12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	4,416.44	579.01
27 14 23 16-0549 MLF 24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	4,922.18	579.01
27 14 23 16-0550 MLF 48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	7,134.38	579.01
27 14 23 16-0551 Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench <small>(27 14 23 16-0338)</small> Note: Singlemode and multimode combination cable. Excludes trenching.		
27 14 23 16-0552 Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench <small>(27 14 23 16-0551)</small>		
27 14 23 16-0553 MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	3,184.89	530.76
27 14 23 16-0554 MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	4,074.81	530.76
27 14 23 16-0555 MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	6,057.25	530.76
27 14 23 16-0556 Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench <small>(27 14 23 16-0551)</small>		

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27 14 23 16-0557 MLF 12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	4,319.94	530.76
27 14 23 16-0558 MLF 24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	4,825.68	530.76
27 14 23 16-0559 MLF 48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	7,037.88	530.76
27 14 23 16-0560 Network Communications Cabling And Related Products (27 14 23 16)		
27 14 23 16-0561 EA AC Surge Suppression Assembly.....	285.65	12.06
Note: Liebert AccuVar Transient Voltage Surge Protection (TVSS) device or Atlantic Scientific Zone Defender Pro Model # 16100. Includes testing.		
27 14 23 16-0562 EA Single Mode Fiber Optic To Ethernet Media Converter	478.77	14.48
Note: Transition Networks part no. J/E-PSW-FX-02(SM). Includes testing.		
27 14 23 16-0563 EA 6' Long Single Mode Patch Cord With SC duplex Connectors At Both Ends.....	25.75	1.55
Note: Includes testing.		
27 14 23 16-0564 EA KVM (Keyboard, Video, Mouse) Cable	58.21	1.94
Note: Raritan CCP40. Includes testing.		
27 14 23 16-0565 EA 6' Long USB (Universal Serial Bus) Cable	9.29	1.55
Note: Includes testing.		
27 14 23 16-0566 EA 10' Long USB (Universal Serial Bus) Cable	10.97	1.94
Note: Includes testing.		
27 14 23 16-0567 EA 20' Long Category 6 Patch Cables With A RJ-45 Connectors At Each End	11.80	1.55
Note: Includes testing.		
27 14 23 16-0568 EA 10' Long Category 6 Patch Cables With A RJ-45 Connectors At Each End	13.48	1.94
Note: Includes testing.		
27 14 23 16-0569 EA 6' Long Single Mode Patch Cord With SC Connectors At Both Ends	19.16	1.55
Note: Includes testing.		
27 14 23 16-0570 EA 20' Long Single Mode Patch Cord With SC Duplex Connectors At Both Ends	41.20	1.94
Note: Includes testing.		
27 14 23 16-0571 EA 6' Long Single Mode Patch Cord With SC Duplex Connector At One End And SC Connectors At The Other	32.52	1.55
Note: Includes testing.		
27 14 23 16-0572 EA 20' Long Single Mode Patch Cord With SC Duplex Connector At One End And SC Connectors At The Other	41.20	1.94
Note: Includes testing.		
27 14 23 16-0573 EA 6' Long Single Mode Patch Cord With SC Duplex Connector At One End And FC Connectors At The Other.....	60.28	1.55
Note: Includes testing.		
27 14 23 16-0574 EA 6' Long Single Mode Patch Cord With SC Connectors At One End And FC Connectors At The Other.....	60.28	1.55
Note: Includes testing.		
27 14 23 16-0575 LF 6 Strand Dielectric Indoor / Outdoor Fiber Optic Cable.....	0.72	
Note: Corning part no. 006ESF-T41O1D20. Includes testing.		
27 14 23 16-0576 LF 12 Strand Dielectric Indoor / Outdoor Fiber Optic Cable.....	5.72	
Note: Corning part no. 012ESF-T41O1D20. Includes testing.		
27 14 23 16-0577 LF 24 Strand Dielectric Indoor / Outdoor Fiber Optic Cable.....	6.99	
Note: Corning part no. 024EW4-T41O1D20. Includes testing.		
27 14 23 16-0578 LF 72 Strand Dielectric Indoor / Outdoor Fiber Optic Cable.....	11.34	
Note: Corning part no. 072EW4-T41O1D20. Includes testing.		
27 14 23 16-0579 LF 144 Strand Dielectric Indoor / Outdoor Fiber Optic Cable.....	17.81	
Note: Corning part no. 144EW4-T41O1D20. Includes testing.		
27 14 23 16-0580 LF 36 Strand Dielectric Indoor Plenum Rated Fiber Optic Cable.....	10.78	
Note: Corning part no. 036E81-61131-24. Includes testing.		
27 14 23 16-0581 LF 72 Strand Dielectric Indoor Plenum Rated Fiber Optic Cable	16.48	
Note: Corning part no. 072E81-T3131-24. Includes testing.		
27 14 23 16-0582 EA Aerial Storage Unit.....	79.58	9.65
Note: Alcola part no. FSU-16. Includes testing.		
27 14 23 16-0583 EA Spider Fan-Out Kits With SC Connectors.....	96.09	9.65
Note: Corning part no. SFK-P-12-900-S.		
27 14 23 16-0584 LF Ultraviolet Resistant Rated Category 6 Cable.....	0.97	0.18
Note: Includes RJ 45 connectors at both ends. CommScope part no. 6NF4+. Includes testing.		
27 14 23 16-0585 LF RG11 Coaxial Cable NEC CMR.....	3.68	1.81
Note: Corning part no. SFK-P-12-900-S.		
27 14 23 16-0586 LF Outdoor Rated UL Type CL2	3.58	
Note: Aluminum foil-polyester tape 100% shield coverage twisted (6 twists per foot) single pair 19 X 27 stranding tin copper coated #14 AWG conductor Audio, Control, and Instrumentation Cable with polyethylene insulation and PVC jacket. Belden 8720. Includes testing.		
27 14 23 16-0587 LF Indoor Plenum Rated UL Type CMP.....	5.03	1.81
Note: 100% aluminum foil shield coverage twisted (6 twists per foot) 4 pairs 7X32 stranding tin copper coated #24 AWG conductor Computer Cable with Fluorinated Ethylene Propylene insulation and plenum rated jacket. Belden 82504. Includes testing.		
27 14 33 Communications Coaxial Cabling (27 14)		
27 14 33 16 Communications Coaxial Cabling (27 14 33)		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 14 33 16-0001 Indoor Coaxial Cable (27 14 33 16)		
27 14 33 16-0002 Coaxial, Indoor Telecommunications Cable (27 14 33 16-0001)		
27 14 33 16-0003 Coaxial, Indoor Telecommunications Cable, Installed In Conduit (27 14 33 16-0002)		
27 14 33 16-0004 MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9108).....	1,145.86	405.31
27 14 33 16-0005 MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82108).....	2,487.46	405.31
27 14 33 16-0006 MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9114).....	998.50	463.21
27 14 33 16-0007 MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82120).....	3,112.45	463.21



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27 14 33 16-0008 Coaxial, Indoor Telecommunications Cable, Installed Exposed (27 14 33 16-0002)		
27 14 33 16-0009 MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9108).....	1,821.38	810.62
For Work In Restricted Working Space, Add	405.31	
27 14 33 16-0010 MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82108).....	3,162.98	810.62
For Work In Restricted Working Space, Add	405.31	
27 14 33 16-0011 MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9114).....	1,770.52	926.42
For Work In Restricted Working Space, Add	463.21	
27 14 33 16-0012 MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82120).....	3,884.47	926.42
For Work In Restricted Working Space, Add	463.21	
27 14 33 16-0013 Coaxial Distribution Cable (27 14 33 16-0001)		
Note: Cables shall be as Belden, Times Fiber, West Penn or approved equal		
27 14 33 16-0014 MLF RG-6/U Coaxial Distribution Cable, In Conduit.....	1,791.07	282.31
27 14 33 16-0015 MLF RG-6A/U Coaxial Distribution Cable, In Conduit.....	6,304.04	282.31
27 14 33 16-0016 MLF RG-8/U Coaxial Distribution Cable, In Conduit.....	3,384.64	298.20
27 14 33 16-0017 MLF RG-8A/U Coaxial Distribution Cable, In Conduit.....	4,232.37	298.20
27 14 33 16-0018 MLF RG-11/U Coaxial Distribution Cable, In Conduit.....	3,801.36	352.89
27 14 33 16-0019 MLF RG-11A/U Coaxial Distribution Cable, In Conduit.....	5,440.80	352.89
27 14 33 16-0020 MLF RG-11/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	11,654.98	494.05
27 14 33 16-0021 MLF RG-58/U Coaxial Distribution Cable, In Conduit.....	1,337.32	247.03
27 14 33 16-0022 MLF RG-58A/U Coaxial Distribution Cable, In Conduit.....	1,505.30	247.03
27 14 33 16-0023 MLF RG-58C/U Coaxial Distribution Cable, In Conduit.....	1,801.22	247.03
27 14 33 16-0024 MLF RG-58/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	4,351.64	494.05
27 14 33 16-0025 MLF RG-59/U Coaxial Distribution Cable, In Conduit.....	2,122.12	247.03
27 14 33 16-0026 MLF RG-59/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	5,232.10	494.05
27 14 33 16-0027 MLF 1/2" Hard Line Coaxial, In Conduit.....	1,838.84	352.89
27 14 33 16-0028 Outdoor Coaxial Cable (27 14 33 16)		
27 14 33 16-0029 Coaxial Cables "Television" Copper Covered Aluminum Center Core (27 14 33 16-0028)		
Note: Corrugated steel armor jacket.		
27 14 33 16-0030 MLF TV Coaxial Trunk Cable 3/4" Diameter, Direct Burial.....	5,170.05	1,320.88
27 14 33 16-0031 MLF TV Coaxial Distribution Cable 1/2" Diameter, Direct Burial.....	3,280.87	929.07
27 14 33 16-0032 MLF TV Coaxial Distribution Cable 3/8" Diameter, Direct Burial.....	2,719.77	548.13
27 14 33 16-0033 MLF TV Coaxial Cable Drop 1/4" Diameter, Direct Burial.....	1,543.06	548.13
27 14 33 16-0034 MLF TV Coaxial Cable Drop 1/4" Diameter, Placed In Conduit.....	2,313.92	856.47
27 14 43 Communications Faceplates And Connectors (27 14)		
27 14 43 00-0001 Wall Mounted Telephone Faceplates (27 14 43)		
Note: Includes standard telephone mounting studs.		
27 14 43 00-0002 Plastic Faceplates For Wall Mounted Telephones (27 14 43 00-0001)		
27 14 43 00-0003 EA Single Gang, 6-Position RJ25 Jack, Flush, Plastic Faceplate For Wall Mounted Telephones.....	31.34	12.06
27 14 43 00-0004 Stainless Steel Faceplates For Wall Mounted Telephones (27 14 43 00-0001)		
27 14 43 00-0005 EA Single Gang, Keystone Opening, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	25.09	4.83
Note: Requires one snap-in modular jack.		
27 14 43 00-0006 EA Single Gang, 6-Position RJ25 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	44.99	12.06
27 14 43 00-0007 EA Single Gang, 8-Position RJ45 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	52.51	14.48
27 14 43 00-0008 EA Single Gang, Keystone Opening, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones.....	24.19	4.83
Note: Requires one snap-in modular jack.		
27 14 43 00-0009 EA Single Gang, 6-Position RJ25 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones.....	41.18	12.06
27 14 43 00-0010 EA Single Gang, 8-Position RJ45 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones.....	48.80	14.48
27 14 43 00-0011 Plastic Communications Faceplates (27 14 43)		
Note: Excludes modular jacks. See CSI section 27 14 43 00-0051 for modular jacks.		
27 14 43 00-0012 EA One Port, Single Gang, Plastic Communication Faceplate With Station ID.....	7.32	2.42
27 14 43 00-0013 EA Two Port, Single Gang, Plastic Communication Faceplate With Station ID.....	7.32	2.42
27 14 43 00-0014 EA Three Port, Single Gang, Plastic Communication Faceplate With Station ID.....	7.32	2.42
27 14 43 00-0015 EA Four Port, Single Gang, Plastic Communication Faceplate With Station ID.....	7.32	2.42
27 14 43 00-0016 EA Six Port, Single Gang, Plastic Communication Faceplate With Station ID.....	7.32	2.42
27 14 43 00-0017 EA Four Port, Double Gang, Plastic Communications Faceplate With Station ID.....	10.88	2.42
27 14 43 00-0018 EA Six Port, Double Gang, Plastic Communication Faceplate With Station ID.....	10.88	2.42
27 14 43 00-0019 EA Eight Port, Double Gang, Plastic Communication Faceplate With Station ID.....	10.88	2.42
27 14 43 00-0020 EA Nine Port, Double Gang, Plastic Communication Faceplate With Station ID.....	10.88	2.42
27 14 43 00-0021 EA Twelve Port, Double Gang, Plastic Communication Faceplate With Station ID.....	10.88	2.42
27 14 43 00-0022 Stainless Steel Communications Faceplates (27 14 43)		
Note: Excludes modular jacks. See CSI section 27 14 43 00-0051 for modular jacks.		
27 14 43 00-0023 Stainless Steel Communications Faceplates (27 14 43 00-0022)		
27 14 43 00-0024 EA One Port, Single Gang, Stainless Steel Communications Faceplate.....	13.33	2.42
27 14 43 00-0025 EA Two Port, Single Gang, Stainless Steel Communications Faceplate.....	13.33	2.42

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27 14 43 00-0026 EA Three Port, Single Gang, Stainless Steel Communications Faceplate	13.33	2.42
27 14 43 00-0027 EA Four Port, Single Gang, Stainless Steel Communications Faceplate	14.22	2.42
27 14 43 00-0028 EA Six Port, Single Gang, Stainless Steel Communications Faceplate	14.22	2.42
27 14 43 00-0029 EA Four Port, Double Gang, Stainless Steel Communications Faceplate	18.96	2.42
27 14 43 00-0030 EA Six Port, Double Gang, Stainless Steel Communications Faceplate	19.51	2.42
27 14 43 00-0031 EA Eight Port, Double Gang, Stainless Steel Communications Faceplate	22.49	2.42
27 14 43 00-0032 EA Nine Port, Double Gang, Stainless Steel Communication Faceplate	22.49	2.42
27 14 43 00-0033 EA Twelve Port, Double Gang, Stainless Steel Communications Faceplate	22.49	2.42
27 14 43 00-0034 Stainless Steel Communications Faceplates With Station ID <small>(27 14 43 00-0022)</small>		
27 14 43 00-0035 EA One Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	18.85	2.42
27 14 43 00-0036 EA Two Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	18.85	2.42
27 14 43 00-0037 EA Three Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	18.85	2.42
27 14 43 00-0038 EA Four Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	18.85	2.42
27 14 43 00-0039 EA Six Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	18.85	2.42
27 14 43 00-0040 EA Four Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	39.91	2.42
27 14 43 00-0041 EA Six Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	39.91	2.42
27 14 43 00-0042 EA Eight Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	39.91	2.42
27 14 43 00-0043 EA Nine Port, Double Gang, Stainless Steel Communication Faceplate With Station ID	39.91	2.42
27 14 43 00-0044 EA Twelve Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	39.91	2.42
27 14 43 00-0045 Surface Mount Plastic Communication Boxes <small>(27 14 43)</small>		
Note: Excludes modular jacks. See CSI section 27 14 43 00-0051 for modular jacks.		
27 14 43 00-0046 EA One Port, Surface Mount Plastic Communication Box With Station ID	27.30	12.08
27 14 43 00-0047 EA Two Port, Surface Mount Plastic Communication Box With Station ID	27.85	12.08
27 14 43 00-0048 EA Four Port, Surface Mount Plastic Communication Box With Station ID	31.66	12.08
27 14 43 00-0049 EA Six Port, Surface Mount Plastic Communication Box With Station ID	36.18	12.08
27 14 43 00-0050 EA Twelve Port, Surface Mount Plastic Communication Box With Station ID	40.93	12.08
27 14 43 00-0051 Snap-In Modular Jacks <small>(27 14 43)</small>		
Note: Includes termination.		
27 14 43 00-0052 EA Cat 3, Snap-In Modular Jack	25.61	9.66
27 14 43 00-0053 EA Cat 5E, Snap-In Modular Jack	26.82	9.66
27 14 43 00-0054 EA Cat 5E Shielded, Snap-In Modular Jack	30.46	9.66
27 14 43 00-0055 EA Cat 6, Snap-In Modular Jack	30.46	9.66
27 14 43 00-0056 EA Cat 6 Shielded, Snap-In Modular Jack	34.54	9.66
27 14 43 00-0057 EA Cat 6A, Snap-In Modular Jack	35.16	9.66
27 14 43 00-0058 EA Voice, RJ-11, Snap-In Modular Jack	16.59	4.84
27 14 43 00-0059 EA SC Type Fiber Optic, Snap-In Modular Jack	28.36	9.66
27 14 43 00-0060 EA ST Type Fiber Optic, Snap-In Modular Jack	31.45	9.66
27 14 43 00-0061 EA LC Type Fiber Optic, Snap-In Modular Jack	37.52	9.66
27 14 43 00-0062 EA Blank Fill In, Snap-In Modular Jack	5.41	2.42
27 14 43 00-0063 EA Open Cable Pass Through Insert, Snap-In Modular Jack	6.06	2.42
27 14 43 00-0064 EA Coaxial F-Type Coupler, Snap-In Modular Jack	21.23	7.24
Note: Includes female to female connection.		
<i>For Gold Bulkhead, Add</i>		1.18
27 14 43 00-0065 EA RCA Jack Pass-Through Coupler, Snap-In Modular Jack	21.45	7.24
Note: Includes female to female connection.		
27 14 43 00-0066 EA RCA Solder Coupler, Snap-In Modular Jack	43.84	9.66
27 14 43 00-0067 EA RCA Jack With 110 Punch Down, Snap-In Modular Jack	52.78	9.66
27 14 43 00-0068 EA 3.5 m Mini Stereo Jack, Snap-In Modular Jack	26.49	9.66
27 14 43 00-0069 EA MT-RJ Pass-Through Coupler, Snap-In Modular Jack	26.73	4.84
27 14 43 00-0070 EA BNC Connector, Snap-In Modular Jack	30.13	9.66
27 14 43 00-0071 EA S-Video With 110 Punch Down, Snap-In Modular Jack	33.44	9.66
27 14 43 00-0072 PR Speaker Connectors, Snap-In Modular Jack	43.73	14.50
Note: Includes a pair of binding posts, banana jacks or spring clip connectors. Requires two open ports.		
27 14 43 00-0073 EA USB Audio Video Connector, Snap-In Modular Jack	48.66	9.66
27 14 43 00-0074 Communications Equipment Labeling <small>(27 14 43)</small>		
27 14 43 00-0075 EA Label Both Ends Of One 4 Pair Cable	19.00	
27 14 43 00-0076 EA Label single gang face plate (2 labels required)	15.20	
27 14 43 00-0077 EA Label two gang face plate (4 labels required)	22.79	
27 14 43 00-0078 EA Label both ends of a Siamese (dual 4 Pair cable)	19.00	
27 14 53 Communications Cable Innerduct <small>(27 14)</small>		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 14 53 00-0001 Indoor Innerduct <small>(27 14 53)</small>		
27 14 53 00-0002 Indoor Innerduct, Installed In Conduit <small>(27 14 53 00-0001)</small>		
27 14 53 00-0003 Riser Rated, Indoor Innerduct, Installed In Conduit <small>(27 14 53 00-0002)</small>		
27 14 53 00-0004 MLF 1" Riser Rated, Indoor Innerduct, Installed In Conduit	3,555.11	1,447.52
27 14 53 00-0005 MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed In Conduit	4,632.48	1,930.03
27 14 53 00-0006 MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed In Conduit	6,074.98	2,412.54
27 14 53 00-0007 MLF 2" Riser Rated, Indoor Innerduct, Installed In Conduit	7,138.30	2,895.05



Communications	27	27
Structured Cabling	27 10	
Communications Cabling	27 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 14 53 00-0008 Plenum Rated, Indoor Innerduct, Installed In Conduit (27 14 53 00-0002)		
27 14 53 00-0009 MLF 1" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	4,959.49	1,447.52
27 14 53 00-0010 MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	6,275.60	1,930.03
27 14 53 00-0011 MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	8,251.77	2,412.54
27 14 53 00-0012 MLF 2" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	9,947.06	2,895.05
27 14 53 00-0013 Indoor Innerduct, Installed Exposed (27 14 53 00-0001)		
27 14 53 00-0014 Riser Rated, Indoor Innerduct, Installed Exposed (27 14 53 00-0013)		
27 14 53 00-0015 MLF 1" Riser Rated, Indoor Innerduct, Installed Exposed.....	4,520.13	1,930.03
For Work In Restricted Working Space, Add	1,158.02	
27 14 53 00-0016 MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed Exposed.....	5,597.49	2,412.54
For Work In Restricted Working Space, Add	1,447.52	
27 14 53 00-0017 MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed Exposed.....	7,040.00	2,895.05
For Work In Restricted Working Space, Add	1,737.03	
27 14 53 00-0018 MLF 2" Riser Rated, Indoor Innerduct, Installed Exposed.....	8,103.31	3,377.56
For Work In Restricted Working Space, Add	2,026.53	
27 14 53 00-0019 Plenum Rated, Indoor Innerduct, Installed Exposed (27 14 53 00-0013)		
27 14 53 00-0020 MLF 1" Plenum Rated, Indoor Innerduct, Installed Exposed.....	5,924.51	1,930.03
For Work In Restricted Working Space, Add	1,158.02	
27 14 53 00-0021 MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed Exposed.....	7,240.61	2,412.54
For Work In Restricted Working Space, Add	1,447.52	
27 14 53 00-0022 MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed Exposed.....	9,216.79	2,895.05
For Work In Restricted Working Space, Add	1,737.03	
27 14 53 00-0023 MLF 2" Plenum Rated, Indoor Innerduct, Installed Exposed.....	10,912.07	3,377.56
For Work In Restricted Working Space, Add	2,026.53	
27 14 53 00-0024 Outdoor Innerduct (27 14 53)		
27 14 53 00-0025 Outdoor Innerduct, Installed In Conduit (27 14 53 00-0024)		
27 14 53 00-0026 MLF 1" Outdoor Innerduct, Installed In Conduit.....	3,386.58	1,447.52
27 14 53 00-0027 MLF 1-1/4" Outdoor Innerduct, Installed In Conduit.....	4,383.96	1,930.03
27 14 53 00-0028 MLF 1-1/2" Outdoor Innerduct, Installed In Conduit.....	5,572.49	2,412.54
27 14 53 00-0029 MLF 2" Outdoor Innerduct, Installed In Conduit.....	6,662.78	2,895.05
27 14 53 00-0030 Outdoor Innerduct, Buried In Trench (27 14 53 00-0024)		
27 14 53 00-0031 MLF 1" Outdoor Innerduct, Buried In Trench.....	2,421.56	
27 14 53 00-0032 MLF 1-1/4" Outdoor Innerduct, Buried In Trench.....	3,418.94	
27 14 53 00-0033 MLF 1-1/2" Outdoor Innerduct, Buried In Trench.....	4,607.48	
27 14 53 00-0034 MLF 2" Outdoor Innerduct, Buried In Trench.....	5,697.76	
27 14 63 Communications Multimedia Modular Patch Panels (27 14)		
27 14 63 00-0001 Communications Multimedia Modular Patch Panels (27 14 63)		
Note: Unloaded multimedia patch panels that accept modular jacks for category 3, 5e, 6, fiber optic, etc. Excludes rack, modular jacks and terminations. See CSI section 27 14 43 00-0051 for modular jacks.		
27 14 63 00-0002 EA 12 Port, Wall Mount Multimedia Modular Patch Panel, Unloaded.....	80.89	4.83
27 14 63 00-0003 EA 16 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	89.16	4.83
27 14 63 00-0004 EA 24 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	105.15	4.83
27 14 63 00-0005 EA 36 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	110.06	4.83
27 14 63 00-0006 EA 48 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	120.56	6.03
27 14 63 00-0007 EA 24 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	114.13	4.83
27 14 63 00-0008 EA 48 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	143.23	6.03
27 14 63 00-0009 EA Rack Mount Rear Cable Management Bar.....	40.59	6.03
27 16 Communications Connecting Cords, Devices, And Adapters (27 10)		
27 16 16 Communications Media Converters, Adapters, and Transceivers (27 16)		
27 16 16 00-0001 Fiber Optic Receivers (27 16 16)		
27 16 16 00-0002 EA Fiber Optic Receiver, Range 6.2 Miles.....	656.00	48.25
27 16 16 00-0003 EA Fiber Optic MM Dual Video Receiver, Manual Gain.....	679.41	95.04
Note: With video presence Ind, RM.		
27 16 16 00-0004 Fiber Optic Transmitters (27 16 16)		
27 16 16 00-0005 EA Fiber Optic Transmitter, Range 6.2 Miles.....	655.99	48.25
27 16 16 00-0006 EA Fiber Optic MM Dual Video Transmitter Video Presence Indicator.....	679.41	95.04
27 16 16 00-0007 Fiber Optic Repeaters (27 16 16)		
Note: Consist of transmitter and receiver, back-to-back. Excludes power source.		
27 16 16 00-0008 EA Fiber Optic Repeater, 6.2 Miles Transmitter And Receiver Back-Back, No Power.....	752.48	96.51

27 Communications
27 10 Structured Cabling
 27 16 Communications Connecting Cords, Devices, And Adapters



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 16 00-0009	EA		Fiber Optic Digital Repeater, 2,000 Miles Transmitter And Receiver Back-Back, No Power	1,192.90	193.00
27 16 16 00-0010			Fiber Optic Transceivers <small>(27 16 16)</small>		
27 16 16 00-0011	EA		Fiber Optic Transceivers, 3,000 Miles Range	813.38	193.00
27 16 16 00-0012	EA		Fiber Optic Transceivers, Digital 2,000 Miles Range	813.38	193.00
27 16 16 00-0013	EA		Fiber Optic Ethernet Transceiver	1,063.62	289.51
27 16 16 00-0014	EA		Transceiver (Low Cost Bi- Directional).....	375.42	72.38
27 16 19			Communications Patch Cords, Station Cords, And Cross Connect Wire <small>(27 16)</small>		
27 16 19 00-0001			Cross Connect Wire <small>(27 16 19)</small> Note: Up to 20' length.		
27 16 19 00-0002	EA		2-Pair Cross Connect Wire	16.17	
27 16 19 00-0003	EA		3-Pair Cross Connect Wire	21.72	
27 16 19 00-0004	EA		4-Pair Cross Connect Wire	27.17	
27 16 19 00-0005			Fiber Optic Patch Cords <small>(27 16 19)</small>		
27 16 19 00-0006			Simplex Fiber Optic Patch Cables <small>(27 16 19 00-0005)</small>		
27 16 19 00-0007			Singlemode, Simplex Fiber Optic Patch Cables <small>(27 16 19 00-0006)</small>		
27 16 19 00-0008	EA		ST To ST Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	33.74	
			<i>For Each Additional Meter In Length, Add</i>	0.26	
27 16 19 00-0009	EA		ST To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	27.92	
			<i>For Each Additional Meter In Length, Add</i>	0.26	
27 16 19 00-0010	EA		ST To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	35.48	
			<i>For Each Additional Meter In Length, Add</i>	0.26	
27 16 19 00-0011	EA		SC To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	29.25	
			<i>For Each Additional Meter In Length, Add</i>	0.26	
27 16 19 00-0012	EA		SC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	33.49	
			<i>For Each Additional Meter In Length, Add</i>	0.26	
27 16 19 00-0013	EA		LC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	33.02	
			<i>For Each Additional Meter In Length, Add</i>	0.26	
27 16 19 00-0014			Duplex Fiber Optic Patch Cables <small>(27 16 19 00-0005)</small>		
27 16 19 00-0015			Singlemode, Duplex Fiber Optic Patch Cables <small>(27 16 19 00-0014)</small>		
27 16 19 00-0016	EA		ST To ST Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	57.12	
			<i>For Each Additional Meter In Length, Add</i>	0.51	
27 16 19 00-0017	EA		ST To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	55.48	
			<i>For Each Additional Meter In Length, Add</i>	0.51	
27 16 19 00-0018	EA		ST To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	61.31	
			<i>For Each Additional Meter In Length, Add</i>	0.51	
27 16 19 00-0019	EA		SC To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	48.16	
			<i>For Each Additional Meter In Length, Add</i>	0.51	
27 16 19 00-0020	EA		SC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	56.64	
			<i>For Each Additional Meter In Length, Add</i>	0.51	
27 16 19 00-0021	EA		LC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	55.71	
			<i>For Each Additional Meter In Length, Add</i>	0.51	
27 16 19 00-0022			Multimode, Duplex Fiber Optic Patch Cables <small>(27 16 19 00-0014)</small>		
27 16 19 00-0023	EA		ST To ST Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	43.68	
			<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0024	EA		ST To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	47.48	
			<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0025	EA		ST To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	47.87	
			<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0026	EA		ST To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	49.09	
			<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0027	EA		SC To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	43.84	
			<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0028	EA		SC To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	49.30	
			<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0029	EA		SC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	57.55	
			<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0030	EA		MTRJ To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	40.33	
			<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0031	EA		LC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	48.59	
			<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0032			Fiber Optic Cable Pig Tail <small>(27 16 19)</small>		
27 16 19 00-0033	EA		Simplex Fiber Optic Cable Pig Tail	61.59	33.77
27 16 19 00-0034	EA		Duplex Fiber Optic Cable Pig Tail.....	75.39	33.77
27 16 19 00-0035			Ethernet Patch Cords <small>(27 16 19)</small>		
27 16 19 00-0036	EA		3' Category 5E Patch Cables With Boots.....	11.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 19 00-0037 EA 5' Category 5E Patch Cables With Boots.....	12.88	
27 16 19 00-0038 EA 7' Category 5E Patch Cables With Boots.....	13.93	
27 16 19 00-0039 EA 10' Category 5E Patch Cables With Boots.....	20.28	
27 16 19 00-0040 EA 15' Category 5E Patch Cables With Boots.....	25.52	
27 16 19 00-0041 EA 25' Category 5E Patch Cables With Boots.....	33.43	
27 16 19 00-0042 EA 3' Category 6 Patch Cables With Boots.....	13.08	
27 16 19 00-0043 EA 5' Category 6 Patch Cables With Boots.....	15.72	
27 16 19 00-0044 EA 7' Category 6 Patch Cables With Boots.....	15.77	
27 16 19 00-0045 EA 10' Category 6 Patch Cables With Boots.....	19.02	
27 16 19 00-0046 EA 15' Category 6 Patch Cables With Boots.....	25.12	
27 16 19 00-0047 EA 25' Category 6 Patch Cables With Boots.....	31.29	
27 16 19 00-0048 EA 50' Category 6 Patch Cables With Boots.....	48.63	
27 16 19 00-0049 EA 100' Category 6 Patch Cables With Boots.....	84.61	
27 16 19 00-0050 EA 3' Category 6A Patch Cables With Boots.....	23.80	
27 16 19 00-0051 EA 5' Category 6A Patch Cables With Boots.....	25.37	
27 16 19 00-0052 EA 7' Category 6A Patch Cables With Boots.....	26.54	
27 16 19 00-0053 EA 10' Category 6A Patch Cables With Boots.....	30.70	
27 16 19 00-0054 EA 15' Category 6A Patch Cables With Boots.....	37.40	
27 16 19 00-0055 EA 25' Category 6A Patch Cables With Boots.....	47.50	
27 16 19 00-0056 EA 50' Category 6A Patch Cables With Boots.....	70.17	
27 16 19 00-0057 EA 100' Category 6A Patch Cables With Boots.....	123.79	
27 16 19 00-0058 EA 3' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E03-06).....	11.85	
27 16 19 00-0059 EA 5' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E05-06).....	12.88	
27 16 19 00-0060 EA 7' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E07-06).....	13.93	
27 16 19 00-0061 EA 10' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E10-06).....	20.28	
27 16 19 00-0062 EA 15' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E15-06).....	25.52	
27 16 19 00-0063 EA 25' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E25-06).....	33.43	
27 16 19 00-0064 EA 3' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC603-06).....	13.08	
27 16 19 00-0065 EA 5' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC605-06).....	15.72	
27 16 19 00-0066 EA 7' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC607-06).....	15.77	
27 16 19 00-0067 EA 10' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC610-06).....	19.02	
27 16 19 00-0068 EA 15' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC615-06).....	25.12	
27 16 19 00-0069 EA 25' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC625-06).....	31.29	
27 16 19 00-0070 EA 3' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A03-09).....	23.80	
27 16 19 00-0071 EA 5' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A05-09).....	25.37	
27 16 19 00-0072 EA 7' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A07-09).....	26.54	
27 16 19 00-0073 EA 10' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A10-09).....	30.70	
27 16 19 00-0074 EA 15' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A15-09).....	37.40	
27 16 19 00-0075 EA 25' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A25-09).....	47.50	

27 20 Data Communications ⁽²⁷⁾

27 21 Data Communications Network Equipment ^(27 20)

Note: Includes testing of new devices and certification.

27 21 16 Data Communications Routers, CSU/DSU, Multiplexers, Codecs, and Modems

^(27 21)

27 21 16 00-0001 Fiber Optic Modems ^(27 21 16)

27 21 16 00-0002 EA Fiber Optic Modems, Range 6.2 Miles.....	1,318.47	193.00
27 21 16 00-0003 EA Fiber Optic Modem, Range 3.1 Miles, 12 Channel.....	2,484.06	193.00

27 21 16 00-0004 Ethernet Hubs and Switches ^(27 21 16)

27 21 16 00-0005 EA 16 Port Managed Hub With Fiberport And Standard Management.....	2,353.38	144.95
27 21 16 00-0006 EA 16 Port Unmanaged Hub.....	448.96	96.64
27 21 16 00-0007 EA 12 Port, Industrial Ethernet Switch (Cisco IE-4000-4GC4GP4G-E).....	4,807.27	96.64
27 21 16 00-0008 EA Power Supply (Cisco PWR-IE170W-PC-AC).....	880.39	48.32

27 21 16 00-0009 Network Equipment ^(27 21 16)

27 21 16 00-0010 Communications Entrance Protection ^(27 21 16 00-0009)

27 21 16 00-0011 EA 100-Pair, 5 Pin Configuration, 110 Termination, Building Entrance Terminal With Cover (Porta 24100-110-M110C).....	688.35	72.48
Note: Excludes terminations.		
27 21 16 00-0012 EA Solid State Protector Module With 4 OHM Heat Coils (CommScope 4C1S).....	8.36	0.96

27 21 16 00-0013 Communications Cabinets, Racks, Frames And Enclosures ^(27 21 16 00-0009)

27 21 16 00-0014 EA 19" Width x 36" Height x 24" Depth, Wall Mounted Telecommunications Enclosure (Chatsworth 11840-736).....	827.49	72.48
For Fan Kit (Chatsworth 12804-701), Add	109.64	
27 21 16 00-0015 EA 10 Outlet, 125 Volt, 20 Amp Telecommunications Cabinet Power Strip (Chatsworth 13239-757).....	722.20	4.84

27 21 16 00-0016 Communications Termination Blocks And Patch Panels ^(27 21 16 00-0009)

27 21 16 00-0017 Communications Termination Blocks ^(27 21 16 00-0016)

27 21 16 00-0018 EA 4-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058810).....	259.03	14.48
27 21 16 00-0019 EA 5-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058802).....	241.22	14.48
27 21 16 00-0020 EA 4-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058869).....	575.20	14.48
27 21 16 00-0021 EA 5-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058851).....	535.13	14.48

27	Communications
27 20	Data Communications
27 21	Data Communications Network Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0022 EA 110 Connector System Mounting Brackets (CommScope 107535593).....	82.68	14.48
27 21 16 00-0023 EA 110 Connector System Mounting Brackets (CommScope 107535585).....	89.16	14.48
27 21 16 00-0024 EA 110 Connector System Mounting Brackets (CommScope 107098816).....	101.27	14.48
27 21 16 00-0025 Communications Copper Patch Panels (2721 16 00-0016) Note: Excludes cabinet and terminations.		
27 21 16 00-0026 EA 24 Port, Category 5E Patch Panel (CommScope 108208919).....	258.46	31.40
27 21 16 00-0027 EA 48 Port, Category 5E Patch Panel (CommScope 108208935).....	468.59	38.66
27 21 16 00-0028 EA 24 Port, Category 6 Patch Panel (CommScope 760062372).....	380.52	31.40
27 21 16 00-0029 EA 48 Port, Category 6 Patch Panel (CommScope 760062380).....	707.62	38.66
27 21 16 00-0030 Communications Optical Fiber Patch Panels (2721 16 00-0016)		
27 21 16 00-0031 Closet Connector Housings (2721 16 00-0030)		
27 21 16 00-0032 EA 48 Fiber Total Capacity, Closet Connector Housing (Corning CCH-01U).....	294.29	19.32
Note: Accepts up to 2 closet connector housing panels. Excludes panels.		
27 21 16 00-0033 EA 96 Fiber Total Capacity, Closet Connector Housing (Corning CCH-02U).....	342.64	19.32
Note: Accepts up to 4 closet connector housing panels. Excludes panels.		
27 21 16 00-0034 EA 288 Fiber Total Capacity, Closet Connector Housing (Corning CCH-04U).....	426.00	19.32
Note: Accepts up to 12 closet connector housing panels. Excludes panels.		
27 21 16 00-0035 EA SC Duplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-91).....	92.61	9.66
27 21 16 00-0036 EA SC Duplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-59).....	125.40	9.66
27 21 16 00-0037 EA SC Simplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-56).....	104.19	9.66
27 21 16 00-0038 EA SC Simplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-3C).....	136.00	9.66
27 21 16 00-0039 Communications Cable Management (2721 16 00-0009)		
27 21 16 00-0040 Horizontal Cable Communication Cable Management (2721 16 00-0039)		
27 21 16 00-0041 EA 1.7" Height, 19" Width, 3.7" Depth, 1 RU, Front Only, Horizontal Cable Manager (Panduit WMPFSE).....	99.90	19.32
27 21 16 00-0042 EA 3-1/2" Height, 19" Width, 3.7" Depth, Horizontal Cable Manager (Panduit WMPF1E).....	103.07	19.32
27 21 16 00-0043 Vertical Communication Cable Management (2721 16 00-0039)		
27 21 16 00-0044 EA 6" Width x 84" Height, Double-Sided Vertical Cabling Section (Chatsworth 11729-703).....	578.36	48.32
27 21 16 00-0045 EA 19" Width x 84" Height, Universal Rack (Chatsworth 48353-703).....	598.89	48.32
27 21 16 00-0046 EA 23" Width x 84" Height, Universal Rack (Chatsworth 48383-703).....	645.12	48.32
27 21 16 00-0047 Communications Patch Cords, Station Cords, And Cross Connect Wire (2721 16 00-0009)		
27 21 16 00-0048 Premise Cross-Connect Wire (2721 16 00-0047)		
27 21 16 00-0049 LF 1-Pair, 22 AWG Premise Cross-Connect Wire (General Cable 7041973).....	0.99	0.48
27 21 16 00-0050 Pathways For Communications Systems (2721 16 00-0009)		
27 21 16 00-0051 Conduits And Backboxes For Communication Systems (2721 16 00-0050)		
27 21 16 00-0052 Flexible Conduit For Communication Systems (2721 16 00-0051)		
27 21 16 00-0053 CLF 1" Diameter, Riser Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlton DF4X1C).....	391.12	173.70
27 21 16 00-0054 CLF 1" Diameter, Plenum Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlton CF4X1C).....	557.11	173.70
27 21 16 00-0055 Tube Cables For Communication Systems (2721 16 00-0051)		
27 21 16 00-0056 Outdoor/All-Dielectric Tube Cables (2721 16 00-0055)		
27 21 16 00-0057 CLF Two Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC02TOX).....	332.71	115.80
27 21 16 00-0058 CLF Seven Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC07TOX).....	495.14	144.75
27 21 16 00-0059 CLF Nineteen Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC19TOX).....	820.12	173.70
27 21 16 00-0060 Indoor/Riser Rated Tube Cables (2721 16 00-0055)		
27 21 16 00-0061 CLF Two Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC02TRX).....	381.06	115.80
27 21 16 00-0062 CLF Four Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC04TRX).....	465.64	130.28
27 21 16 00-0063 CLF Seven Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC07TRX).....	528.72	144.75
27 21 16 00-0064 CLF Nineteen Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC19TRX).....	971.92	173.70
27 21 16 00-0065 Indoor/Plenum Rated Tube Cables (2721 16 00-0055)		
27 21 16 00-0066 CLF Single Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC01TPX).....	280.32	115.80
27 21 16 00-0067 CLF Two Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC02TP2).....	403.90	115.80
27 21 16 00-0068 CLF Four Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC04TP2).....	621.47	130.28
27 21 16 00-0069 CLF Seven Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC07TP2).....	903.51	144.75
27 21 16 00-0070 CLF Nineteen Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC19TP2).....	2,805.55	173.70
27 21 16 00-0071 Unjacketed Single Tube Cables (2721 16 00-0055)		
27 21 16 00-0072 CLF Single Tube, Unjacketed Single Tube Cable (Sumitomo TC01TGX).....	242.70	115.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0073 Multimode Fiber Bundles <small>(2721 16 00-0055)</small>		
<small>Note: Includes optical fiber cables.</small>		
27 21 16 00-0074 CLF 2-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FR02M6)	103.57	34.74
27 21 16 00-0075 CLF 4-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB04M6)	155.96	34.74
27 21 16 00-0076 CLF 6-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB06M6)	212.38	34.74
27 21 16 00-0077 CLF 12-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB12M6)	384.33	34.74
27 21 16 00-0078 CLF 18-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB18M6)	556.52	40.53
27 21 16 00-0079 CLF 24-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB24M6)	728.46	40.53
27 21 16 00-0080 Singlemode Fiber Bundles <small>(2721 16 00-0055)</small>		
<small>Note: Includes optical fiber cables.</small>		
27 21 16 00-0081 CLF 2-Fiber, Singlemode Fiber Bundle (Sumitomo FR02SX)	92.83	34.74
27 21 16 00-0082 CLF 4-Fiber, Singlemode Fiber Bundle (Sumitomo FB04SX)	115.66	34.74
27 21 16 00-0083 CLF 6-Fiber, Singlemode Fiber Bundle (Sumitomo FB06SX)	134.47	34.74
27 21 16 00-0084 CLF 12-Fiber, Singlemode Fiber Bundle (Sumitomo FB12SX)	170.74	34.74
27 21 16 00-0085 CLF 18-Fiber, Singlemode Fiber Bundle (Sumitomo FB18SX)	260.99	40.53
27 21 16 00-0086 CLF 24-Fiber, Singlemode Fiber Bundle (Sumitomo FB24SX)	342.93	40.53
27 21 16 00-0087 Tube Distribution Cabinets <small>(2721 16 00-0055)</small>		
27 21 16 00-0088 EA Modular Tube Distribution Cabinet (Sumitomo DE06MDU)	201.11	48.32
<small>Note: Up to six 7-tube cables or two 19-tube cables.</small>		
27 21 16 00-0089 Modular Fiber Termination Cabinets <small>(2721 16 00-0055)</small>		
27 21 16 00-0090 EA 24-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT24WFM)	253.78	48.32
27 21 16 00-0091 EA 48-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT48WFM)	270.44	48.32
27 21 16 00-0092 Tube Distribution Accessories <small>(2721 16 00-0055)</small>		
27 21 16 00-0093 EA Plastic Push/Pull Quick Release Pneumatic Cap For 8 mm Tube (Sumitomo DE08MA)	11.53	4.84
27 21 16 00-0094 EA Plastic Push/Pull Quick Release Pneumatic Coupling For 8 mm Tube (Sumitomo DE08MC2)	12.70	4.84
27 21 16 00-0095 EA Brass Push/Pull Quick Release Pneumatic Coupling For 8 mm Bulkhead Tube (Sumitomo DE08MB)	15.70	4.84
27 21 16 00-0096 Communications Optical Fiber Cabling <small>(2721 16 00-0009)</small>		
27 21 16 00-0097 Communications Optical Fiber Cable Splicing And Terminations <small>(2721 16 00-0096)</small>		
27 21 16 00-0098 Field Installed Fiber Connectors <small>(2721 16 00-0097)</small>		
27 21 16 00-0099 EA SC Type, Singlemode, Field Installed Fiber Connector (Corning 95-200-42)	33.41	7.24
27 21 16 00-0100 EA SC Type, 62.5 Micron Multimode, Field Installed Fiber Connector (Corning 95-000-41)	29.56	7.24
27 21 16 00-0101 Buffer Tube Fan-Out Kits <small>(2721 16 00-0097)</small>		
27 21 16 00-0102 Buffer Tube Breakout Kits (Sumitomo) <small>(2721 16 00-0101)</small>		
<small>Note: Includes 900 micron tubing.</small>		
27 21 16 00-0103 EA 2-Fiber Breakout Kit (Sumitomo FTFLD02)	209.12	96.51
27 21 16 00-0104 EA 4-Fiber Breakout Kit (Sumitomo FTFLD04)	213.15	96.51
27 21 16 00-0105 EA 6-Fiber Breakout Kit (Sumitomo FTFLD06)	216.71	96.51
27 21 16 00-0106 EA 12-Fiber Breakout Kit (Sumitomo FTFLD12)	227.77	96.51
27 21 16 00-0107 EA 18-Fiber Breakout Kit (Sumitomo FTFLD18)	242.89	96.51
27 21 16 00-0108 EA 24-Fiber Breakout Kit (Sumitomo FTFLD24)	254.12	96.51
27 21 16 00-0109 Buffer Tube Fan-Out Kits (Corning) <small>(2721 16 00-0101)</small>		
27 21 16 00-0110 EA 12 Fiber, 25' Tube Length, Indoor Buffer Tube Fan-Out Kit (Corning Fan-BT25-12)	210.99	96.51
27 21 16 00-0111 EA 12 Fiber, 25' Tube Length, Outdoor Buffer Tube Fan-Out Kit (Corning Fan-OD25-12)	250.90	96.51
27 21 16 00-0112 Communications Copper Cabling <small>(2721 16 00-0009)</small>		
27 21 16 00-0113 Copper Communications Cable Splicing And Terminations <small>(2721 16 00-0112)</small>		
27 21 16 00-0114 Copper Communications Cable Splice Cases <small>(2721 16 00-0113)</small>		
27 21 16 00-0115 EA 6.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000626)	790.96	193.00
27 21 16 00-0116 EA 9.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000630)	906.70	193.00
27 21 16 00-0117 EA 12.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8006219)	1,291.29	193.00
27 21 16 00-0118 Modular Splice Connectors <small>(2721 16 00-0113)</small>		
27 21 16 00-0119 EA 25-Pair, Straight Body Only, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-SC1-25)	102.13	48.25
27 21 16 00-0120 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Dry Modular Splice Connector (3M 710-SD1-25)	100.88	48.25
27 21 16 00-0121 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-TC1-25)	102.15	48.25
27 21 16 00-0122 EA 25-Pair, Bridge Body, 26-22 Gauge Cable, Filled Modular Splice Connector (3M 710-BC1-25)	101.98	48.25



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 21 19 Data Communications Network Management (27 21)

27 21 19 00-0001 Data Communications Network Management (27 21 19)

27 21 19 00-0002	EA	3 Port, Terminal/Serial Device Server (Comtrol 99560-9).....	517.29	24.13
27 21 19 00-0003	EA	2 Port, Terminal/Serial Device Server (Comtrol 99550-0).....	402.40	24.13
27 21 19 00-0004	EA	4 Port, DB9 Terminal/Serial Device Server (Comtrol 99445-9).....	541.75	24.13
27 21 19 00-0005	EA	4 Port, DB9 Terminal/Serial Device Server (Comtrol 99448-0).....	849.46	24.13
27 21 19 00-0006	EA	24 Watt, Din Rail Mountable, Power Adapter (Comtrol PS1020).....	90.92	
27 21 19 00-0007	EA	Remote Data Port, Spectra Positioning System (Pelco IPS_RDPE_2).....	295.47	14.48
27 21 19 00-0008	EA	Sennetech Code Translator (Pelco SCT_100_AD232).....	610.90	24.13
27 21 19 00-0009	EA	VPN Router (Cisco 819HG).....	3,261.37	309.24
27 21 19 00-0010	EA	Cisco Catalyst 3000 Series Switches (Cisco IE-3000 - 8TC).....	2,362.54	309.24
27 21 19 00-0011	EA	WS-C4507R+E Chassis, Two WS-X4648-RJ45V+E, Sup7L-E, LAN Base (Cisco WS-C4507RE+96V+).....	19,732.11	115.80
27 21 19 00-0012	EA	SMARTnet Extended Service Agreement, SNTC-8X5XNBD WS-C4507R+E Chassis,2 WS-X4648-RJ45V+E (Cisco CON-SNT-C4507REV).....	1,498.82	
27 21 19 00-0013	EA	Sup8-E And WS-X4748-RJ45V+E Upgrade For Bundle (Cisco C4500E-S7L-S8).....	9,635.01	115.80
27 21 19 00-0014	EA	Catalyst 4500 E-Series Redundant Supervisor 8-E (Cisco WS-X45-SUP8-E/2).....	16,721.59	115.80
27 21 19 00-0015	EA	Catalyst 4500 2GB SD Memory Card (Cisco SD-X45-2GB-E).....	405.54	9.66
27 21 19 00-0016	EA	Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV).....	2,483.13	12.06
27 21 19 00-0017	EA	Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV/2).....	2,483.13	12.06
27 21 19 00-0018	EA	13', NEMA 6-20 To IEC-C19 Power Cable (Cisco CAB-US620P-C19-US).....	54.26	4.84
27 21 19 00-0019	EA	1000BASE-SX SFP Transceiver Module, MMF, 850nm, DOM (Cisco GLC-SX-MMD=).....	508.01	48.25
27 21 19 00-0020	EA	Cisco Catalyst 3850 24 Port Data IP Base (Cisco WS-C3850-24TS).....	5,396.13	115.80
27 21 19 00-0021	EA	SMARTnet Extended Service Agreement, 8X5XNBD Cisco Catalyst 3850 24 Port Data IP Base (Cisco CON-SNT-WSC384TS).....	1,262.40	
27 21 19 00-0022	EA	North America AC Type A Power Cable (Cisco CAB-TA-NA).....	54.26	4.84
27 21 19 00-0023	EA	350 Watt AC Power Supply (Cisco PWR-C1-350WAC).....	435.63	12.06
27 21 19 00-0024	EA	Cisco Catalyst 3850 4x1GE Network Module (Cisco C3850-NM-4-1G).....	423.39	12.08
27 21 19 00-0025	EA	1', Catalyst 3750X and 3850 Stack Power Cable (Cisco CAB-SPWR-30CM).....	97.75	4.84
27 21 19 00-0026	EA	Rack Mount Switch 16 100 SFP 8 10/100 PoE 2 Geuplinks (Cisco IE-3010-16S-8PC).....	4,488.96	115.80
27 21 19 00-0027	EA	SMARTnet Extended Service Agreement, 8X5XNBD IA Rack Mount Switch 16 100 SFP 8 10/10 (Cisco CON-SNT-301016S8).....	834.16	
27 21 19 00-0028	EA	IE 3010 Power Supply (Cisco PWR-RGD-AC-DC/IA).....	599.56	12.06
27 21 19 00-0029	EA	IE 3010 AC-DC Redundant Power Supply (Cisco PWR-RGD-AC-DC/IAR).....	755.69	12.06
27 21 19 00-0030	EA	4 Ethernet 10/100 Ports And 2 Dual-Purpose Uplinks, Industrial Ethernet Switch (Cisco IE-3000-4TC).....	1,653.97	115.80
27 21 19 00-0031	EA	Expansion Power Module For Cisco IE-3000-4TC (Cisco PWR-IE50W-AC-IEC).....	347.56	12.08
27 21 19 00-0032	EA	4 Port, Expansion SFP Module for IE-3000-4TC (Cisco IEM-3000-4SM).....	1,380.23	12.08

27 21 33 Data Communications Wireless Access Points (27 21)

27 21 33 00-0001 Data Communications Wireless Access Points (27 21 33)

27 21 33 00-0002	EA	Base Station Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-BSU).....	4,205.81	144.75
27 21 33 00-0003	EA	Base Station Unit, 300 Mbps, MIMO 2x2, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1).....	8,416.71	144.75
27 21 33 00-0004	EA	Base Station Unit, 300 Mbps, MIMO 2x2, 16 dBi, 90 Degree Sector Antenna US PoE (Proxim Wireless MP-8250-BS9).....	7,143.78	144.75
27 21 33 00-0005	EA	Subscriber Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-SUA).....	1,395.17	144.75
27 21 33 00-0006	EA	Subscriber Unit, 300 Mbps, MIMO 2x2, 23 dBi, Panel Antenna US PoE (Proxim Wireless MP-8250-SUR).....	1,632.00	160.35
27 21 33 00-0007	EA	Base Station Unit, 300 Mbps, MIMO 3x3, GPS Sync Ready, Type-N Connectors - US PoE (Proxim Wireless MP-8200-BSU-G).....	2,208.96	160.35
27 21 33 00-0008	EA	Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1-G).....	3,258.23	160.35
27 21 33 00-0009	EA	Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 16 dBi, 90° Sector Antenna - US PoE (Proxim Wireless MP-8250-BS9-G).....	3,258.23	160.35
27 21 33 00-0010	EA	50 Mbps (upgradable to 100 Mbps), MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-50).....	664.69	53.44
27 21 33 00-0011	EA	100 Mbps, MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-100).....	757.03	53.44
27 21 33 00-0012	EA	Gigabit, 32W, PoE Injector With RJ45 And Reload Button (Proxim Wireless ETH-POEINJ-1G).....	136.69	26.72
27 21 33 00-0013	EA	Surge, Gigabit Surge Protector With Shielded RJ45 (Proxim Wireless ETH-SURGE-1G).....	136.69	26.72
27 21 33 00-0014	EA	ORINOCO Dual Band Range Extender Antenna (Proxim Wireless 1086-REA).....	253.44	48.25
27 21 33 00-0015	EA	5 dBi, ORINOCO 2.4GHz Omni Antenna (Proxim Wireless 1086-OA24-5).....	199.91	48.25
27 21 33 00-0016	EA	8.5 dBi, ORINOCO 2.4GHz Panel Antenna (Proxim Wireless 1086-PA24-8.5).....	285.07	48.25
27 21 33 00-0017	EA	9.5 dBi, ORINOCO 2.4GHz Panel Antenna (Proxim Wireless 1086-PA24-9.5).....	285.07	48.25
27 21 33 00-0018	EA	7 dBi, ORINOCO 5GHz Panel Antenna (Proxim Wireless 1086-PA50-7).....	272.90	48.25
27 21 33 00-0019	EA	FlexPort23 330 Mbps With Rectangular Antenna Interface, Band 6 (BridgeWave Communications FP23-1200R6).....	28,172.27	96.51
27 21 33 00-0020	EA	FlexPort23 330 Mbps With Rectangular Antenna Interface, Band 7 (BridgeWave Communications FP23-1200R7).....	28,172.27	96.51
27 21 33 00-0021	EA	FlexPort uWave AdaptRate And Modulation Feature Upgrade (BridgeWave Communications FPUWAVE-UPG-ARM).....	2,311.33	
27 21 33 00-0022	EA	FlexPort 18 (23) Capacity Upgrade, 330-660 Mbps (BridgeWave Communications FP18(23)CU330-660).....	2,432.98	
27 21 33 00-0023	EA	SFP, GigE, Multimode Fiber (LC) Interface (BridgeWave Communications BRG171-00511).....	230.72	24.13
27 21 33 00-0024	EA	1' High Performance Dish Antenna, Low Profile, 21.2-23.6 GHz, WR42 Flange, SOI (Radio Waves HPLP1-23RR).....	693.68	48.25
27 21 33 00-0025	EA	FPUWave 2nd Year Extended Warranty And NDR (BridgeWave Communications FPU-WAVE-EWNR-2).....	4,196.89	
27 21 33 00-0026	EA	Cisco #AIR-ANT5959, 2.4 GHZ - 2.0/2.35 dBi antenna.....	449.44	48.25
27 21 33 00-0027	EA	Verizon LTE Modem (Sierra Wireless AirLink GX440 LTE VZW).....	1,139.90	48.25
27 21 33 00-0028	EA	Cellular Phone / Wi-Fi Antenna (Sierra Wireless AP-CWG-Q-S22-WH).....	350.80	48.25
27 21 33 00-0029	EA	AirLink GX400 Modem Mounting Bracket (Sierra Wireless 1202404).....	52.96	
27 21 33 00-0030	EA	Cell LTE MIMO Antenna (Sierra Wireless 1810075).....	78.07	19.30
27 21 33 00-0031	EA	AirLink GX400 Power Adapter (Sierra Wireless 2700384).....	49.12	
27 21 33 00-0032	EA	AirLink GX400 Power Cable (Sierra Wireless 2000380).....	34.02	
27 21 33 00-0033	EA	Cellular/PCS/LTE, Hockey Puck Antenna (Sierra Wireless AP-C-Q-S2-BL).....	240.49	48.25
27 21 33 00-0034	EA	Cellular/PCS/LTE/GPS, Multi-Band Antenna (Sierra Wireless AP-CG-Q-S22-BL).....	263.71	48.25
27 21 33 00-0035	EA	2 Way, RF Power Divider, 790-920 MHZ (Telewave ANTPD28D).....	295.90	48.32



Communications	27	27
Data Communications	27 20	
Data Communications Network Equipment	27 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 33 00-0036 EA Wireless Cellular Modem (Sierra Wireless AirLink GX400 EVDO/GPS).....	701.16	72.48
27 21 33 00-0037 EA Wireless Cellular Modem (Sierra Wireless AirLink GX440 LTE/EVDO/GPS).....	886.95	72.48
27 21 33 00-0038 EA Wireless Cellular Modem (Sierra Wireless AirLink GX450 Rugged).....	794.06	72.48
27 21 33 00-0039 EA Magnetic Mount Cellular Antenna (Wilson Electronics 301125).....	53.99	14.48
27 21 33 00-0040 EA Yagi Antenna, 890-960 MHz, 10 dBd Gain (PCTEL Bluewave Antennas BGYD890K).....	223.95	53.44
27 21 33 00-0041 EA Andrew® Omni Antenna, 890-960 MHz, 360° Horizontal Beamwidth, Fixed Electrical Tilt, Fits On 38-51 mm (1-1/2 to 2 in) OD Pipe (Commscope DB583-Y).....	138.28	53.44
27 21 33 00-0042 EA PowerBridge M5: Carrier Class 5GHz MIMO Bridging Solution Featuring Super Efficient 25dBm MIMO Antenna Array (Ubiquiti Networks PBM-5).....	376.43	48.32
27 21 33 00-0043 EA Single Channel Bluetooth Sensor With Bluetooth Module And Antenna (DeepBlue SC).....	3,548.18	48.32
27 21 33 00-0044 EA Point-to-Point Wireless Bridge (Proxim Tsunami® QB-10150).....	2,854.50	48.25

27 22 Data Communications Hardware (27 20)

27 22 19 Data Communications Servers (27 22)

27 22 19 00-0001 Network Communications Frames And Enclosures (27 22 19)

27 22 19 00-0002 EA Communications Equipment Enclosure.....	12,113.11	289.92
Note: APX Enclosures, Inc. part number TCDD727236 or an approved equivalent. UL listed, 72"Hx72"Wx36"D, .0125 5052 aluminum construction, polyester powder finish, ANSI 61 grey out/white in, dual swing rack 19"/23", standard EIA spacing, tapped 12-24 adjustable channels on side, thermostat kit, fluorescent light kit, 3PT, latch on main door with pad lock provisions, plywood back panels, and insulation thru-out) with a 12,000 BTU air conditioning unit housed in a stainless steel enclosure.		
27 22 19 00-0003 EA Wall Mounted Equipment Cabinet.....	841.26	96.64
Note: Mid-Atlantic DWR-24-22 PD.		
27 22 19 00-0004 EA APX 2 Bay Communications Equipment Enclosure, 72" High x 72" Wide x 36" Deep, 14 Ga. Type 304 Stainless Steel.....	6,587.66	
Note: UI 508A Listed Enclosure, NEMA 4x (Two Bay) APX Double Door Front Style, Stainless Steel construction with a natural mill finish. Includes Three Point Door Latching on (1) Door with Stainless Steel Pad Lockable Handle, Sloped Lid Toward Rear of Cabinet, Door Wind Stay Brackets and Bars on Both Doors, R-4 Insulation Package on inside enclosure and doors, 3/4" Plywood Back panels on Rear Wall, (1) 19" Swing Out Rack in each bay with 12-24 Tapped Holes, Lifting Ears, Door Gasket Seals, Removable Center Post, Continuous Sthle Hinges/Hardware, (2) Fluorescent Light Fixtures with door activated switches, (12,000 BTU) Air Conditioner (230 Volt) with Stainless Steel Shell Mounted to Sied Wall, (4) Three Prong Duplex Receptacles, Power Distribution Panel with 100 Amp Load Center, 100 AMP Main Breaker, Equipment Circuit Breakers, Surge Suppression, includes Fiber Storage Reels.		
27 22 19 00-0005 APX 3 Bay Communications Equipment Enclosure, 72" High x 108" Wide x 36" Deep, 14 Ga. Type 304 Stainless Steel.....	22,115.44	
Note: UI 508A Listed Enclosure, NEMA 4x (Three Bay) APX Three Door Front Style, Stainless Steel construction with a natural mill finish. Includes Three Point Door Latching on (3) Doors with Stainless Steel Pad Lockable Handle, Sloped Lid Toward Rear of Cabinet, Door Wind Stay Brackets and Bars on all three Doors, R-4 Insulation Package on inside enclosure and doors, 3/4" Plywood Back panels on Rear Wall, (1) 19" Swing Out Rack in each bay with 12-24 Tapped Holes, Two 33 RU Racks positioned inside left and right bays, Lifting Ears Door Gasket Seals, (2) Fixed Center Posts, Continuous Sthle Hinges/Hardware, (3) Fluorescent Light Fixtures with door activated switches, (19,000 BTU) Air Conditioner (230 Volt) with Stainless Steel Shell Mounted to Sied Wall, (4) Three Prong Duplex Receptacles, Power Distribution Panel with 100 Amp Load Center, 100 AMP Main Breaker, Equipment Circuit Breakers, Surge Suppression, includes Fiber Storage Reels.		

27 24 Data Communications Peripheral Data Equipment (27 20)

27 24 33 Power Supplies, UPS And Battery Backup (27 24)

27 24 33 00-0001 Network Equipment (27 24 33)

27 24 33 00-0002 EA 19" Rack Mountable 110-24T Ethernet Switch.....	370.26	32.13
Note: 24 x 10/100Base-TX LAN with SFP (miniGBic) port, Nortel Networks Limited 110-24T Managed Business Ethernet Switch - 24 x 10/100Base-TX LAN model #NT5S01AEE5. Includes testing.		
27 24 33 00-0003 EA 19" Rack Mountable Station Access Router.....	1,896.71	168.87
Note: Nortel Network part number SR2101031E5. Includes testing.		
27 24 33 00-0004 EA 19" Rack Mount LCD Monitor.....	907.55	77.20
Note: Nortel Network part number SR2101031E5. Includes testing.		
27 24 33 00-0005 EA 1000VA UPS (Uninterruptible Power Supply).....	867.13	88.22
Note: APC SUA1000RM2U. Includes testing.		
27 24 33 00-0006 EA 1000VA UPS (Uninterruptible Power Supply).....	381.15	88.22
Note: APC BR1000. Includes testing.		
27 24 33 00-0007 EA 1200VA UPS (Uninterruptible Power Supply).....	389.92	88.22
Note: APC BR1200. Includes testing.		

27 30 Voice Communications (27)

27 31 Voice Communications Switching and Routing Equipment (27 30)

Note: Includes testing of new devices and certification.

27 31 13 PBX/Key Systems (27 31)

27 31 13 00-0001 Interior PBX Telephone System (27 31 13)

Note: Includes telephone instruments cabling and solid state switching.

27 31 13 00-0002 Interior PBX Telephone System (27 31 13 00-0001)

Note: Cost is for each line up to 1000 lines.

27 31 13 00-0003 EA 1 Line PBX Connection, Cost Per Each Line Up To 1,000.....	1,303.30	503.40
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27	Communications
27 30	Voice Communications
27 31	Voice Communications Switching and Routing Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 31 13 00-0004			Additional Telephones Less Solid State Switching (PBX) (27 31 13 00-0001)		
27 31 13 00-0005	EA		Add For Each Additional PBX Phone Line Less Solid State Switching.....	383.61	39.57
27 31 13 00-0006			Telephones (27 31 13 00-0001)		
27 31 13 00-0007	EA		Telephones, Desk Type Intercommunication Equipment.....	161.49	37.63
27 31 13 00-0008	EA		Telephones, Wall Type Intercommunication Equipment.....	186.86	50.18
27 32			Voice Communications Terminal Equipment (27 30)		
			Note: Includes testing of new devices and certification.		
27 32 19			Interior Telephone System (27 32)		
27 32 19 00-0001			Components (27 32 19)		
27 32 19 00-0002	EA		Solid State Exchange Unit With Power Supply.....	4,675.38	881.83
27 32 19 00-0003	EA		Dial Telephone - Handset In Cabinet.....	546.08	72.09
27 32 19 00-0004	EA		Elevator Cab Telephone With Trailer Cable.....	295.58	77.30
27 32 19 00-0005	EA		Loud Ring Bell, 6".....	236.91	71.70
27 32 19 00-0006	EA		Audio/Visual Indicator.....	291.12	67.55
27 32 19 00-0007	EA		Administrative Telephone With Digital Display.....	298.82	60.61
27 32 19 00-0008	EA		Processing Unit For 16 Station System.....	1,568.59	494.38
27 32 19 00-0009	EA		Handset For 16 Station System.....	213.63	49.21
27 32 19 00-0010	EA		Handset In Cabinet, For 16 Station System.....	289.26	66.40
27 32 19 00-0011	MLF		20 Conductor Unshielded Cable, #22.....	2,213.88	1,064.13
27 32 19 00-0012	EA		Power Supply For 16 Station System.....	300.08	131.34
27 32 19 00-0013	EA		Intercom Terminal Board.....	279.61	147.84
27 32 19 00-0014	EA		Power Supply For Five Station System, 24 Volt DC.....	309.58	131.34
27 32 19 00-0015	EA		Telephone Communication Board, Insulated Blueboard 24" x 24" x 1/2" Thick.....	146.48	53.99
27 32 19 00-0016	EA		Telephone Cabinet With Backboard 24" High x 24" Wide x 6" Deep.....	435.46	118.83
27 32 19 00-0017	EA		Telephone Cabinet With Backboard 30" High x 24" Wide x 6" Deep.....	511.86	135.07
27 32 19 00-0018	EA		Telephone Cabinet With Backboard 30" High x 30" Wide x 6" Deep.....	619.04	159.86
27 32 19 00-0019	EA		Telephone Cabinet With Backboard 36" High x 30" Wide x 6" Deep.....	723.42	172.83
27 32 19 00-0020	EA		Telephone Cabinet With Backboard 48" High x 30" Wide x 6" Deep.....	1,095.17	196.64
27 32 19 00-0021	EA		Ring Rung 3".....	9.97	5.38
27 32 19 00-0022	EA		G66B50 Telephone Blocks Including 50 Terminators, Exterior Ring, Marking, ID.....	24.14	9.56
27 32 19 00-0023	EA		G110 Data Blocks Including Terminator, Exterior Ring, Marking, ID And Testing.....	45.09	19.59
27 32 19 00-0024			Accessories (27 32 19)		
27 32 19 00-0025	EA		Blank Telephone Receptacle, Exposed Devices - Complete.....	10.98	5.21
27 32 19 00-0026	EA		4-Pin Telephone Receptacle, Exposed Devices - Complete.....	24.96	20.07
27 32 19 00-0027	EA		Level 5, RJ-45 Jack, Dual Flush Mounted - Complete.....	64.24	22.06
27 32 19 00-0028	EA		Level 5, RJ-45 Jack, Wall Mount - Complete.....	59.77	22.06
27 32 19 00-0029	EA		Terminating Strips, Inside.....	121.77	44.11
27 32 19 00-0030	EA		Dual Outlet, 4-Pin Telephone Receptacle, Concealed Type RJ-45 - Complete.....	50.52	22.67
27 32 19 00-0031	EA		Ready Access Closure 3 To 25 Pair.....	147.24	53.17
27 32 19 00-0032	EA		Ready Access Closure 25 To 100 Pair.....	174.64	59.44
27 32 19 00-0033	EA		Termination Block With Bracket 25 Pair.....	57.67	17.85
27 32 19 00-0034	EA		RJ-11 Telephone Receptacle, Concealed Devices - Complete.....	49.53	22.39
27 32 19 00-0035	EA		Interior Protected Terminal 25 Pair.....	723.54	128.93
27 32 19 00-0036	EA		Interior Protected Terminal 50 Pair.....	877.47	130.95
27 32 19 00-0037	EA		Pedestal 6" x 6" x 50" 3 To 100 Pair.....	286.07	53.65
27 32 19 00-0038	EA		Pedestal 8" x 8" x 50" 100 To 300 Pair.....	296.81	53.65
27 32 19 00-0039	EA		Pedestal 10" x 10" x 43" 300 To 600 Pair.....	393.93	68.61
27 32 19 00-0040	EA		Pedestal 10" x 16" x 439 600 Pair.....	834.21	123.62
27 32 19 00-0041	EA		Entrance Protector Terminal 100 Pair.....	1,181.29	141.08
27 32 19 00-0042	EA		Gas Protection Module.....	15.98	4.83
27 32 19 00-0043	EA		Terminating Boxes, Outside With 3 Element Protectors, Per Pair.....	31.19	4.41
27 32 26			Ring-Down Emergency Telephones (27 32)		
27 32 26 00-0001			Emergency Telephone (27 32 26)		
			Note: Standard features include: CB3000 speakerphone, 3 auxiliary inputs, 2 auxiliary outputs, phone line surge suppressor, analog telephone connection, 70w area light with blue beacon, high power strobe, lighted faceplate, 110VAC power, ultra weather resistant finish, vandal resistant hardware, UV resistant lens, dome vent; flat area for directory, access control or other options; 12.75" diameter/8"-6" height, 1/4" thick steel construction, foundation anchor kit, ADA compliant.		
27 32 26 00-0002	EA		Code Blue 1-Standard Emergency Telephone Pedestal Unit (CB 1-s).....	6,926.42	395.63
			Note: Includes IA4100 FP1 analog speakerphone with single red "Push For Help" button, "Push For Help" bezel, hard wire phone line, passive vent at top, 24V AC, and standard color.		
27 32 26 00-0003	EA		Code Blue 1-Dual Emergency Telephone Pedestal Unit (CB 1-d).....	7,256.67	395.63
			Note: Includes IA4100 FP1 analog speakerphone with single red "Push For Help" button, "Push For Help" bezel, blank stainless steel plate second opening, hard wire phone line, passive vent at top, 24V AC, and standard color.		
27 32 26 00-0004	EA		Analog Speakerphone With Black "Info" Button And Red "Push For Help" Button Code Blue Option (Code Blue IA4100 FP2).....	110.08	
27 32 26 00-0005	EA		Analog Speakerphone With Black "Call" Button, Keypad And Red "Push For Help" Button Code Blue Option (Code Blue IA4100 FP2-K).....	165.13	
27 32 26 00-0006	EA		IP Speakerphone With Single Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP1).....	412.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 32 26 00-0007 EA IP Speakerphone With Back "Info" Button And Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP2).....	561.43	
27 32 26 00-0008 EA IP Speakerphone With Black "Call" Button, Keypad And Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP2-K).....	616.47	
27 32 26 00-0009 EA EMERGENCY (Raised Letters With Braille) Main Bezel Code Blue Option	11.01	
27 32 26 00-0010 EA EMERGENCY/EMERGENCIA (Raised Letters With Braille) Main Bezel Code Blue Option	11.01	
27 32 26 00-0011 EA Directory, Second Opening Code Blue Option.....	99.08	
27 32 26 00-0012 EA Camera Enclosure With Color IP Camera, Second Opening Code Blue Option.....	1,045.80	
27 32 26 00-0013 EA HID Card Reader, Second Opening Code Blue Option	484.37	
27 32 26 00-0014 EA HID Card Reader And Color IP Camera, Second Opening Code Blue Option	1,568.70	
27 32 26 00-0015 EA IP Wireless Communication Code Blue Option.....	3,297.02	
Note: 802.11g or secure mesh 5.8. (system UPS backup or unit Night Charge recommended). IP5000 VoIP Speakerphone option must be ordered when selecting IP Wireless Communications. Requires Base Unit(s) and site survey.		
27 32 26 00-0016 EA Active Venting Code Blue Option.....	176.13	
27 32 26 00-0017 EA Night Charge Power Code Blue Option	1,535.67	
Note: Requires 120V AC external power supplied to Code Blue unit.		
27 32 26 00-0018 EA Power Transformer Kit, Alternate Incoming Power Code Blue Option.....	385.29	
27 32 26 00-0019 EA Overhead Camera Mount Code Blue Option	875.17	
Note: Excludes camera.		
27 32 26 00-0020 EA Custom Color For Overhead Camera Mount Code Blue Option	38.53	
27 32 26 00-0021	City Police Call System (27 32 26)	
27 32 26 00-0022	Components (27 32 26 00-0021)	
27 32 26 00-0023 EA City Police Call System.....	548.37	112.52
27 32 26 00-0024 EA Concrete Foundation For Police Department Telephone Post.....	518.42	162.99

27 40 Audio-Video Communications (27)

27 41 Audio-Video Systems (27 40)

27 41 16 Integrated Audio-Video Systems and Equipment (27 41)

Note: Includes testing of new devices and certification.

27 41 16 00-0001	Television Distribution System (27 41 16)		
See CSI section 26 05 13 16-0001 for basic wiring, 26 05 19 16-0012 for basic wiring.			
27 41 16 00-0002	Television Support System (27 41 16 00-0001)		
27 41 16 00-0003 EA	Ceiling Mounted Television Support, 19" To 20".....	335.95	108.23
27 41 16 00-0004 EA	Ceiling Mounted Television Support, 19" To 20" With Rack	423.24	120.80
27 41 16 00-0005 EA	Ceiling Mounted Television Support, 25" To 27".....	348.17	108.23
27 41 16 00-0006 EA	Ceiling Mounted Television Support, 25" To 27" With Rack	435.46	120.80
27 41 16 00-0007 EA	Wall Mounted Television Support, 13"	265.33	86.97
27 41 16 00-0008 EA	Wall Mounted Television Support, 13" With Rack.....	352.61	96.64
27 41 16 00-0009 EA	Wall Mounted Television Support, 19" To 20".....	281.37	86.97
27 41 16 00-0010 EA	Wall Mounted Television Support, 19" To 20" With Rack	368.64	96.64
27 41 16 00-0011 EA	Wall Mounted Television Support, 25" To 27".....	297.41	86.97
27 41 16 00-0012 EA	Wall Mounted Television Support, 25" To 27" With Rack	384.68	96.64
27 41 16 00-0013	Distribution System (27 41 16 00-0001)		
See CSI section 26 05 13 16-0001 for wire and cabling.			
27 41 16 00-0014	TV Distribution Rack (27 41 16 00-0013)		
27 41 16 00-0015 EA	Steel Rack Cabinet With Shelves	1,051.05	177.47
27 41 16 00-0016 EA	Switch And Pilot Light.....	185.85	78.84
27 41 16 00-0017 LF	Surface Raceway With Outlets	22.81	10.71
27 41 16 00-0018 EA	Service Label.....	27.95	14.77
27 41 16 00-0019	Head End Amplifier (27 41 16 00-0013)		
27 41 16 00-0020 EA	Head End Amplifier.....	701.13	118.12
27 41 16 00-0021	UHF In-Line Booster Amplifier And Power Supply (27 41 16 00-0013)		
27 41 16 00-0022 EA	UHF In-Line Booster.....	430.89	118.12
27 41 16 00-0023	Preamplifiers (27 41 16 00-0013)		
27 41 16 00-0024 EA	VHF Preamplifier	526.05	118.12
27 41 16 00-0025 EA	UHF Preamplifier	430.89	118.12
27 41 16 00-0026	Power Supplies (27 41 16 00-0013)		
27 41 16 00-0027 EA	Common Power Supply	751.50	168.78
27 41 16 00-0028	Line Splitter And Mixer (27 41 16 00-0013)		
27 41 16 00-0029 EA	Line Splitter.....	75.79	39.38

27 Communications
27 40 Audio-Video Communications
27 41 Audio-Video Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 41	16 00-0030	EA	Two-Way Splitter.....	83.36	39.38
27 41	16 00-0031	EA	Frequency Filter.....	172.68	59.15
27 41	16 00-0032	EA	Line Splitter And Mixer.....	230.45	86.85
27 41	16 00-0033		Power Line Filters (27 41 16 00-0013)		
27 41	16 00-0034	EA	120-Volt Power Supply Line Filter.....	319.06	78.84
27 41	16 00-0035		Wall Box And Receiver Outlets (27 41 16 00-0013)		
27 41	16 00-0036	EA	Wall Box With Lockable Cover, Excluding Outlet Plug.....	172.68	59.15
27 41	16 00-0037	EA	TV Receiver Outlet Plug.....	83.36	39.38
27 41	16 00-0038	EA	TV Camera Outlet Plug.....	83.36	39.38
27 41	16 00-0039	EA	Audio Outlet Plug.....	73.87	39.38
27 41	16 00-0040	EA	12 Ft RG 6U Cable With G-59 And TV Set Fittings.....	152.54	78.84
27 41	16 00-0041	EA	Male Plug PL-259.....	83.36	39.38
27 41	16 00-0042	EA	Wall Box And Receiver Outlet Television Outlets.....	102.59	41.30
27 41	16 00-0043		Metal And Electric Shop Antenna Systems (27 41 16)		
27 41	16 00-0044		Antenna (27 41 16 00-0043)		
27 41	16 00-0045	EA	Amateur Radio Antenna.....	666.09	144.75
27 41	16 00-0046	EA	Multi-Band Radio Antenna.....	529.78	144.75
27 41	16 00-0047		Receptacles (27 41 16 00-0043)		
27 41	16 00-0048	EA	Amateur Radio Antenna System Receptacle With Mating Plugs And Adapter.....	163.17	59.15
27 41	16 00-0049	EA	Multi-Band Radio Antenna System Receptacle With Mating Plugs.....	163.17	59.15

27 50 Distributed Communications And Monitoring Systems (27)

27 51 Distributed Audio-Video Communications Systems (27 50)

27 51 23 Intercommunications And Program Systems (27 51)

27 51 23 20 Commercial Intercommunications And Program Systems (27 51 23)

27 51 23 20-0001 Intercom (27 51 23 20)

27 51	23 20-0002	EA	Aiphone Intercom, Master.....	1,198.50	
27 51	23 20-0003	EA	Aiphone Intercom, Remotes.....	445.51	

27 51 33 Sound Reinforcement (27 51)

Note: Includes testing of new devices and certification.

27 51 33 00-0001 Amplifiers (27 51 33)

27 51	33 00-0002	EA	10 Watt PA/Paging System Amplifier, 70 Volt (Bogen C10).....	366.00	96.64
27 51	33 00-0003	EA	35 Watt PA/Paging System Amplifier, 70 Volt (Bogen C35).....	495.47	96.64
27 51	33 00-0004	EA	60 Watt PA/Paging System Amplifier, 70 Volt (Bogen C60).....	578.58	96.64
27 51	33 00-0005	EA	100 Watt PA/Paging System Amplifier, 70 Volt (Bogen 100).....	637.87	96.64
27 51	33 00-0006	EA	150 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS150).....	781.55	96.64
27 51	33 00-0007	EA	250 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS250).....	996.41	96.64
27 51	33 00-0008	EA	Rack Mount Kit For PA/Paging System Amplifiers (Bogen GSRPK).....	40.07	4.84

27 51 33 00-0009 Splitters (27 51 33)

27 51	33 00-0010	EA	24 Watt, 5 Output, Isolated Splitter (Doug Fleenor 125EE).....	1,922.75	72.38
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27 51 33 00-0011 Speakers (27 51 33)

27 51	33 00-0012	EA	8", 5 Watt Recessed Ceiling Mounted Speaker With Transformer And Baffle (Atlas Sound FD72W).....	158.24	25.86
27 51	33 00-0013	EA	8" Steel Baffle (Atlas Sound 51-8).....	45.77	4.83
27 51	33 00-0014	EA	T-Bar Support (Atlas Sound EZ95-8).....	50.29	4.83
27 51	33 00-0015	EA	8" Cylindrical Enclosure With Undercoating (Atlas Sound Q408).....	74.52	4.83
27 51	33 00-0016	EA	Plate Mounted 10 Watt Attenuator With Priority Relay (Atlas Sound AT10-PA).....	75.07	8.69

27 51 33 00-0017 Accessories (27 51 33)

27 51	33 00-0018	EA	Microphone And Stand For Audio/Video System (Bogen MBS-1000A).....	188.57	12.08
27 51	33 00-0019	EA	5 Disk CD Player For Audio/Video System (Bogen DCM290-P).....	415.24	12.08
27 51	33 00-0020	EA	Weather Proof Horn For Audio/Video System (Bogen SPT5A).....	117.11	24.16
27 51	33 00-0021	EA	Trumpet Driver And Line Matching Transformer For Audio/Video System (Atlas PD-60A).....	205.28	24.16
27 51	33 00-0022	EA	Headset Microphone For Audio/Video System (Audio Technica Pro8Hex).....	153.72	24.13
27 51	33 00-0023	EA	Microphone Jack For Audio/Video System.....	78.47	24.16
27 51	33 00-0024	EA	Terminal Cabinet For Audio/Video System (Atlas 121-18).....	602.74	96.64
27 51	33 00-0025	EA	Volume Control For Audio/Video System (Bogen AT10A).....	75.62	24.16
27 51	33 00-0026	EA	Round Bridge for 8" (S86/S810) Recessed Speakers (Bogen Communications TB8).....	57.14	24.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 51 33 00-0027 Remove And Reinstall Speakers <small>(27 51 33)</small> Note: Includes storage, cleaning and supply materials.		
27 51 33 00-0028 EA Removal And Reinstallation Of Ceiling Mounted Speaker.....	135.10	
27 53 Distributed Systems <small>(27 50)</small>		
27 53 13 Clock Systems <small>(27 53)</small>		
27 53 13 00-0001 Wired Self-Corrective Clock Systems <small>(27 53 13)</small>		
27 53 13 00-0002 Wired Self-Corrective Clocks <small>(27 53 13 00-0001)</small>		
27 53 13 00-0003 Analog, Wired Self-Corrective Clocks (Telecor) <small>(27 53 13 00-0002)</small>		
27 53 13 00-0004 24 Volt AC, Analog, Wired Self-Corrective Clocks <small>(27 53 13 00-0003)</small>		
27 53 13 00-0005 EA 12", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	170.41	24.13
<i>For >50 To 100, Deduct</i>	-12.11	
<i>For >100, Deduct</i>	-17.00	
27 53 13 00-0006 EA 12", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	388.45	24.13
<i>For >50 To 100, Deduct</i>	-20.83	
<i>For >100, Deduct</i>	-34.44	
27 53 13 00-0007 EA 16", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	210.62	24.13
<i>For >50 To 100, Deduct</i>	-15.34	
<i>For >100, Deduct</i>	-21.84	
27 53 13 00-0008 EA 16", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	509.07	24.13
<i>For >50 To 100, Deduct</i>	-53.31	
<i>For >100, Deduct</i>	-71.74	
27 53 13 00-0009 120 Volt AC, Analog, Wired Self-Corrective Clocks <small>(27 53 13 00-0003)</small>		
27 53 13 00-0010 EA 12", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	170.41	24.13
<i>For >50 To 100, Deduct</i>	-12.11	
<i>For >100, Deduct</i>	-17.00	
27 53 13 00-0011 EA 12", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	388.45	24.13
<i>For >50 To 100, Deduct</i>	-20.83	
<i>For >100, Deduct</i>	-34.44	
27 53 13 00-0012 EA 16", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	210.62	24.13
<i>For >50 To 100, Deduct</i>	-15.34	
<i>For >100, Deduct</i>	-21.84	
27 53 13 00-0013 EA 16", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	509.07	24.13
<i>For >50 To 100, Deduct</i>	-53.31	
<i>For >100, Deduct</i>	-71.74	
27 53 13 00-0014 Accessories For Analog Wired Self-Corrective Clocks <small>(27 53 13 00-0003)</small>		
27 53 13 00-0015 EA Wire Guards For 12", 15" Or 16" Analog Wired Self-Corrective Clocks.....	136.24	12.06
27 53 13 00-0016 EA Back Box For 10", 12" Or 15" Flush Mount Analog Wired Self-Corrective Clocks	39.59	12.06
27 53 13 00-0017 EA Surface Mounting Rings For 12" Analog Wired Self-Corrective Clocks	48.49	12.06
27 53 13 00-0018 EA Surface Mounting Rings For 15" Analog Wired Self-Corrective Clocks	57.77	12.06
27 53 13 00-0019 EA Combination Back Box For Speaker And Clock.....	98.96	19.30
27 53 13 00-0020 Digital, Wired Self-Corrective Clocks (Telecor) <small>(27 53 13 00-0002)</small>		
27 53 13 00-0021 24 Volt AC, Digital, Wired Self-Corrective Clocks <small>(27 53 13 00-0020)</small>		
27 53 13 00-0022 EA 2.5", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	207.53	24.13
<i>For Surface Mount, Add</i>	31.86	
<i>For >50 To 100, Deduct</i>	-9.56	
<i>For >100, Deduct</i>	-15.93	
27 53 13 00-0023 EA 4", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	312.68	24.13
<i>For Surface Mount, Add</i>	52.89	
<i>For >50 To 100, Deduct</i>	-15.87	
<i>For >100, Deduct</i>	-26.44	
27 53 13 00-0024 120 Volt AC, Digital, Wired Self-Corrective Clocks <small>(27 53 13 00-0020)</small>		
27 53 13 00-0025 EA 2.5", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	207.53	24.13
<i>For Surface Mount, Add</i>	31.86	
<i>For >50 To 100, Deduct</i>	-9.56	
<i>For >100, Deduct</i>	-15.93	
27 53 13 00-0026 EA 4", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	312.68	24.13
<i>For Surface Mount, Add</i>	52.89	
<i>For >50 To 100, Deduct</i>	-15.87	
<i>For >100, Deduct</i>	-26.44	
27 53 13 00-0027 Replacement Modules For 24 Volt AC, Digital, Wired Self-Corrective Clocks <small>(27 53 13 00-0020)</small>		
27 53 13 00-0028 EA 2.5", Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks.....	179.31	24.13
<i>For >50 To 100, Deduct</i>	-7.86	
<i>For >100, Deduct</i>	-13.11	

27 Communications**27 50 Distributed Communications And Monitoring Systems****27 53 Distributed Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 53 13 00-0029	EA		4" Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks.....	287.17	24.13
			<i>For >50 To 100, Deduct</i>	-14.34	
			<i>For >100, Deduct</i>	-23.89	
27 53 13 00-0030			Replacement Modules For 120 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 00-0020)		
27 53 13 00-0031	EA		2.5", Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks.....	179.31	24.13
			<i>For >50 To 100, Deduct</i>	-7.86	
			<i>For >100, Deduct</i>	-13.11	
27 53 13 00-0032	EA		4" Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks.....	287.17	24.13
			<i>For >50 To 100, Deduct</i>	-14.34	
			<i>For >100, Deduct</i>	-23.89	
27 53 13 00-0033			Accessories For Digital Wired Self-Corrective Clocks (27 53 13 00-0020)		
27 53 13 00-0034	EA		Wire Guard For 4" Surface Mount Analog Wired Self-Corrective Clocks.....	183.41	12.06
27 53 13 00-0035	EA		2.5", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	48.87	12.06
27 53 13 00-0036	EA		4", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	65.11	12.06
27 53 13 00-0037	EA		Dual Mounting Kit For Surface Mount Digital Wired Self-Corrective Clocks.....	160.98	12.06
27 53 13 00-0038	EA		4 Gang Extension Ring For Surface Mount Digital Wired Self-Corrective Clocks.....	50.04	12.06
27 53 13 00-0039			Wired Self-Corrective Master Clocks (27 53 13 00-0001)		
27 53 13 00-0040			Wired Self-Corrective Master Clocks (27 53 13 00-0039)		
27 53 13 00-0041	EA		24 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-24).....	1,929.29	193.00
27 53 13 00-0042	EA		120 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-120).....	2,045.27	193.00
27 53 13 00-0043			Accessories For Wired Self-Corrective Master Clocks (27 53 13 00-0039)		
27 53 13 00-0044	EA		5 Amp Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2405).....	213.65	48.25
27 53 13 00-0045	EA		10 Amp Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2406).....	238.00	48.25
27 53 13 00-0046			Other Clock And Program Systems (27 53 13)		
27 53 13 00-0047	EA		4 Circuit Master Clock And Signal Control (Lathem LTR4-512).....	1,153.20	96.51
27 53 13 00-0048	EA		8 Circuit Master Clock And Signal Control (Lathem LTR8-512).....	1,437.24	193.00
27 53 13 00-0049	EA		Program Bell (Lathem 906-6).....	188.97	48.25
27 53 13 00-0050	EA		Combination Clock And Speaker.....	435.23	120.63

END OF SECTION 27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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28 Electronic Safety And Security

Note: Termination costs are included with all safety and security equipment, panel boards, and devices. Terminations are not included with patch panels.

28 40 Life Safety ⁽²⁸⁾

Note: Includes testing of new devices and certification. See CSI section 26 05 19 16-0011 for electrical connections and termination.

28 42 Gas Detection and Alarm ^(28 40)

28 42 00 00-0001 Hydrogen Gas Detection ^(28 42)

28 42 00 00-0002	EA	Hydrogen Gas Detector Sensor, 1% Fan Relay, 2% Alarm (SBS HGDI-DR)	1,131.89	36.24
28 42 00 00-0003	EA	Hydrogen Gas Detector Junction Box (SBS HGDI-JB)	65.59	12.08
28 42 00 00-0004	EA	Remote Display With 25' Cable For Hydrogen Gas Detector (SBS HGDI-REM)	303.30	36.24

28 42 00 00-0005 Monitoring System For Underground Tanks ^(28 42)

28 42 00 00-0006 Continuous Leak Detection System ^(28 42 00 00-0005)

Note: Includes calibration, electronic control module and probes. Excludes sample wells, electrical power supply and sensor cable.

28 42 00 00-0007	EA	Single Channel Underground Tank Monitoring System	4,611.84	395.66
28 42 00 00-0008	EA	2 Channel Underground Tank Monitoring System	6,217.78	527.86
28 42 00 00-0009	EA	3 Channel Underground Tank Monitoring System	8,662.99	565.50
28 42 00 00-0010	EA	4 Channel Underground Tank Monitoring System	9,429.68	791.31
28 42 00 00-0011	EA	Control Panel, 1-8 Tanks, Single Wall Tank Monitoring System	6,263.30	67.55
28 42 00 00-0012	EA	Control Panel, 1-4 Tanks, Double Wall Tank Monitoring System	5,647.76	60.32
28 42 00 00-0013	EA	Control Panel, 1-8 Tanks, Double Wall Tank Monitoring System	7,417.91	67.55
28 42 00 00-0014	EA	Tank Leak Detection Probe	2,291.42	14.48
28 42 00 00-0015	EA	Secondary Containment Collar Probe	282.70	5.79
28 42 00 00-0016	EA	Interstitial Leak Detection Probe	519.26	12.06
28 42 00 00-0017	EA	Liquid Phase Detection	1,710.92	36.19
28 42 00 00-0018	EA	Hydrocarbon Vapor, Fixed	1,581.32	36.19
28 42 00 00-0019	EA	Hydrocarbon Vapor, Float Mounted	1,845.09	41.01
28 42 00 00-0020	EA	Liquid And Vapor Hydrocarbon	2,104.29	41.01

28 43 Fuel Oil Detection And Alarm ^(28 40)

See CSI section 28 42 00 00-0000 for detection and alarms.

28 46 Fire Detection And Alarm ^(28 40)

28 46 11 Fire Sensors and Detectors ^(28 46)

28 46 11 11 Linear Heat Detection Sensors ^(28 46 11)

28 46 11 11-0001 Protectowire Fire Alarm ^(28 46 11 11)

28 46 11 11-0002 Linear Heat Detector Cable ^(28 46 11 11-0001)

28 46 11 11-0003	LF	Multi-Purpose Linear Heat Detector, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC)	3.52
28 46 11 11-0004	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC-M)	3.79
28 46 11 11-0005	LF	High Performance Linear Heat Detector, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR)	3.79
28 46 11 11-0006	LF	High Performance Linear Heat Detector With Messenger Wire, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR-M)	4.05
28 46 11 11-0007	LF	Multi-Purpose Linear Heat Detector, XLT Type, 135 Degree F (Protectowire PHSC-XLT)	4.68
28 46 11 11-0008	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, XLT Type, 135 Degree F (Protectowire PHSC-XLT-M)	4.95
28 46 11 11-0009	EA	Flexible Lead Connector For Linear Heat Detector (Protectowire PFL)	49.83
28 46 11 11-0010	EA	Splicing Connector For Linear Heat Detector (Protectowire PWSC)	17.94
28 46 11 11-0011	EA	Cable Tray Clip For Linear Heat Detector (Protectowire CC-2N And CC-2W)	6.70
28 46 11 11-0012	EA	Cable Tray Spring Clip For Linear Heat Detector (Protectowire HPC-2)	6.70
28 46 11 11-0013	EA	Adhesive Cable Mount For Linear Heat Detector (Protectowire EMS-A-CO)	7.70
28 46 11 11-0014	EA	Beam Clamp For Linear Heat Detector (Protectowire BC-2)	11.97
28 46 11 11-0015	EA	Beam Clamp With Polypropylene Clip For Linear Heat Detector (Protectowire BC-3P)	12.33
28 46 11 11-0016	EA	Pipe Mounting Straps Nylon (3/4" to 2" Pipe) (Protectowire PM-3A)	0.94
28 46 11 11-0017	EA	Pipe Mounting Straps Nylon (2-1/2" to 3-1/2" Pipe) (Protectowire PM-3B)	1.27
28 46 11 11-0018	EA	Pipe Mounting Straps Nylon (4" to 6" Pipe) (Protectowire PM-3C)	5.48

28 46 20 Fire Alarm ^(28 46)

28 46 21 33 Fire Detection and Alarm Annunciation Panels and Fire Stations ^(28 46 20)

28 46 21 33-0001 Edwards Fire Alarm ^(28 46 21 33)

28 46 21 33-0002 EST3 Life Safety And Security Control ^(28 46 21 33-0001)

28 46 21 33-0003 EST3 Network ^(28 46 21 33-0002)

28 46 21 33-0004 Remote Annunciators ^(28 46 21 33-0003)

28 46 21 33-0005	EA	Remote LCD Command Module Annunciator (EST3 3-LCDANN)	939.07	72.48
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Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.

28 Electronic Safety And Security

28 40 Life Safety

28 46 Fire Detection And Alarm



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0006 EA Six Position Base Annunciator (EST3 3-6ANN).....	772.94	72.48
Note: Includes door, CPU card, two annunciator support modules and five blank filler plates. Space provided for up to four Control/Display Modules and one 3-LCD Liquid Crystal Display Module.		
28 46 21 33-0007 EA Ten Position Base Annunciator (EST3 3-10ANN).....	966.65	72.48
Note: Includes door, CPU card, two annunciator support modules and nine blank filler plates. Space provided for up to eight Control/Display Modules and one 3-LCD Liquid Crystal Display Module.		
28 46 21 33-0008 EA Annunciator CPU (EST3 3-ANNCPU3).....	631.14	72.48
Note: One Required per graphic annunciator.		
28 46 21 33-0009 EA Annunciator Support Module (EST3 3-ANNSM).....	122.30	24.16
Note: Takes one space in Annunciator box. Supports one Control/Display module.		
28 46 21 33-0010 EA Liquid Crystal Display Module (EST3 3-LCD).....	420.54	72.48
Note: Mounts over 3-CPU(1).		
28 46 21 33-0011 EA Liquid Crystal Display Module (EST3 3-LCDXL).....	646.26	72.48
Note: Mounts over 3-ANNCPU plus two spaces.		
28 46 21 33-0012 EA LED/SWITCH Driver Module Assembly For Third Part Graphics (EST3 3-EVDVRA).....	469.10	72.48
Note: Assembled version of 3-EVDVR, comes packaged with cables, mounting hardware installation instructions used for third party graphics. Mounts in 3-EVDVRX.		
28 46 21 33-0013 EA Power Supply Assembly With 19" Rail Mounting Chassis Assembly (EST3 3-EVPWRA).....	526.12	48.32
Note: Assembled version of 3-EVPWR, comes packaged with cables, mounting hardware and mounting plate for 3-ANNCPU1. Used for third party graphics.		
28 46 21 33-0014 EA Plastic Mounting Extrusion 19" Mounting (EST3 3-EVDVRX).....	89.33	24.16
Note: Mounts up to three 3-EVDVRA modules.		
28 46 21 33-0015 EA Central Processor Unit Module (EST3 3-CPU3).....	1,104.48	72.48
Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.		
28 46 21 33-0016 EA Primary Power Supply With Local Rail Module, 120 VAC, 50/60 Hz (EST3 3-CPU3).....	952.85	24.16
Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.		
28 46 21 33-0017 Remote Annunciators Cabinets (28 46 21 33-0003)		
28 46 21 33-0018 EA Remote LCD Command Module Flush Mount LCD Wallbox (EST3 RLCM/B).....	95.22	24.16
28 46 21 33-0019 EA Remote LCD Command Module Surface Mount LCD Wallbox (EST3 RLCM/B-S).....	85.56	19.32
28 46 21 33-0020 EA Six Position LED/LCD Flush Wallbox (EST3 6ANN/B).....	105.63	24.16
28 46 21 33-0021 EA Six Position LED/LCD Surface Wallbox (EST3 6ANN/B-S).....	95.97	19.32
28 46 21 33-0022 EA Ten Position LED/LCD Flush Wallbox (EST3 10ANN/B).....	115.40	24.16
28 46 21 33-0023 EA Ten Position LED/LCD Surface Wallbox (EST3 10ANN/B-S).....	105.74	19.32
28 46 21 33-0024 Audio And Telephone Masters (28 46 21 33-0003)		
28 46 21 33-0025 EA Audio Source Unit With Local Microphone And Firefighters' Telephone (EST3 3-ASU/FT).....	2,980.75	96.64
28 46 21 33-0026 EA Audio Source Unit With Local Microphone (Provides Four Local Rail Spaces) (EST3 3-ASU/4).....	1,684.29	96.64
28 46 21 33-0027 EA Audio Source Unit With Local Microphone And Inner Door Filler Plate (EST3 3-ASU).....	1,838.14	96.64
28 46 21 33-0028 EA Fire Fighters Telephone Control Unit With Inner Door Filler Plate (EST3 3-FTCU).....	1,595.15	96.64
28 46 21 33-0029 EA Audio Source Unit Memory Expansion, 100 Minutes (EST3 3-ASUMX/100).....	1,813.89	96.64
28 46 21 33-0030 EA Zoned Amplifier, 95 Watt, Class B. 95 Watt Selectable For 25 Or 70 Vrms Class B Output. Mounts In 2 LRM Spaces (EST3 3-ZA95).....	1,827.23	48.32
28 46 21 33-0031 Battery Distribution Unit (28 46 21 33-0003)		
28 46 21 33-0032 EA Battery Distribution Unit (EST3 3-BTSEN).....	378.04	281.40
28 46 21 33-0033 Remote Booster Power Supply (28 46 21 33-0003)		
28 46 21 33-0034 EA 6.5 Amp, 120 VAC, Booster Power Supply (EST3 BPS6A).....	550.15	72.48
28 46 21 33-0035 EA 10 Amp, 110 VAC Booster Power Supply (EST3 BPS10).....	622.24	72.48
28 46 21 33-0036 EA 10 Amp, 220 VAC Booster Power Supply (EST3 BPS10220).....	675.37	72.48
28 46 21 33-0037 EA Tamper Switch - For CAB7, 14 And 21 Series Cabinets (EST3 3-TAMP).....	96.97	24.16
28 46 21 33-0038 Batteries And Battery Cabinets (28 46 21 33-0003)		
28 46 21 33-0039 EA 1.2 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V1A2 (1.2 Amp Hours)).....	77.17	24.16
28 46 21 33-0040 EA 4 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V4A (4.5 Amp Hours)).....	92.83	24.16
28 46 21 33-0041 EA 24 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V24A (26 Amp Hours)).....	200.89	24.16
28 46 21 33-0042 EA 6.5 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V6A5 (7.2 Amp Hours)).....	99.10	24.16
28 46 21 33-0043 EA 40 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V40A (40 Amp Hours)).....	251.06	24.16
28 46 21 33-0044 EA 10 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V10A (11 Amp Hours)).....	147.21	24.16
28 46 21 33-0045 EA 50 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V50A (50 Amp Hours)).....	495.46	24.16
28 46 21 33-0046 EA 17 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V17A (18 Amp Hours)).....	150.44	24.16
28 46 21 33-0047 EA 65 Amp Hours Sealed Lead Acid Battery - 12 VDC (EST3 12V65A (65 Amp Hours)).....	593.73	24.16
28 46 21 33-0048 EA 8.0 Amp Hours Sealed Lead Acid Battery - 6 VDC (EST3 6V8A (8 Amp Hours)).....	89.78	24.16
28 46 21 33-0049 EA 10 Amp Hours Sealed Lead Acid Battery - 6 VDC (EST3 6V10A (12 Amp Hours)).....	81.96	24.16
28 46 21 33-0050 EA Battery Cabinet, 14.0" x 18.25" x 7.25" Free Standing Cabinet With Key Lock (EST3 BC-1).....	271.38	48.32
Note: Supports up to 40 Ah batteries will hold up to two 12V24A batteries.		
28 46 21 33-0051 EA Battery Cabinet, Gray 22" X 15" X 3.75" (EST3 BC-2).....	229.19	48.32
Note: Holds up to two 12V17A batteries.		
28 46 21 33-0052 EA Remote Closet Enclosure (EST3 3-RCC7R).....	744.35	96.64
28 46 21 33-0053 EA Remote Closet Enclosure (EST3 3-RCC14R).....	910.42	96.64
28 46 21 33-0054 EA Remote Closet Enclosure (EST3 3-RCC21R).....	1,254.80	96.64
28 46 21 33-0055 Serial Printer (28 46 21 33-0003)		
28 46 21 33-0056 EA System Printer - Desk Top Style (EST3 PT-1S).....	955.44	24.16



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0057				Intelligent Analog Initiating Devices (28 46 21 33-0002)		
28 46 21 33-0058				Detectors, Signature (28 46 21 33-0057)		
28 46 21 33-0059	EA			Intelligent 4D Multisensor Detector - Ionization, Photoelectric, Heat (EST3 SIGA-IPHS).....	166.95	36.24
28 46 21 33-0060	EA			Intelligent 4D Multisensor Detector, Black - Ionization, Photoelectric, Heat (EST3 SIGA-IPHSB).....	185.18	36.24
28 46 21 33-0061	EA			Intelligent 3D Multisensor Detector - Photoelectric, Heat (EST3 SIGA-PHS).....	161.52	36.24
28 46 21 33-0062	EA			Intelligent Photoelectric Smoke Detector (EST3 SIGA-PS).....	145.22	36.24
28 46 21 33-0063	EA			Intelligent Ionization Smoke Detector (EST3 SIGA-IS).....	150.65	36.24
28 46 21 33-0064	EA			Intelligent Fixed Temperature / Rate-of-Rise Heat Detector - 135F, 15F Per Minute (EST3 SIGA-HRS).....	127.05	36.24
28 46 21 33-0065	EA			Intelligent Fixed Temperature Heat Detector - 135 Degree F (EST3 SIGA-HFS).....	127.05	36.24
28 46 21 33-0066	EA			Passive Infrared Motion Detector (EST3 SIGA-MD).....	190.03	36.24
28 46 21 33-0067	EA			Passive Infrared Motion Detector With Swivel Mount For Single Gang Boxes (EST3 SIGA-MDS).....	207.83	36.24
28 46 21 33-0068	EA			Intelligent Photoelectric Smoke Detector (EST3 SIGA2-PS).....	178.48	36.24
28 46 21 33-0069	EA			Intelligent Combination Photo Electric And CO Sensor (EST3 SIGA2-PCOS).....	249.18	36.24
28 46 21 33-0070	EA			Intelligent Fixed Temperature Heat Detector - 135 Degree F (EST3 SIGA2-HFS).....	152.09	36.24
28 46 21 33-0071	EA			Intelligent Fixed Temperature / Rate-of-Rise Heat Detector - 135F, 15F Per Minute (EST3 SIGA2-HRS).....	152.09	36.24
28 46 21 33-0072	EA			Intelligent 3D Multisensor Detector - Photoelectric, Heat (EST3 SIGA2-PHS).....	202.23	36.24
28 46 21 33-0073				Detectors, Duct Housings and Accessories, Signature (28 46 21 33-0057)		
28 46 21 33-0074	EA			Superduct, Signature Duct Smoke Detector (EST3 SIGA-SD).....	330.69	60.40
28 46 21 33-0075	EA			Superduct, Test Magnet Kit (EST3 SD-MAG).....	16.87	
28 46 21 33-0076	EA			Superduct, 120" Air Sample Tube (EST3 SD-T120).....	47.07	14.50
28 46 21 33-0077	EA			Superduct, Remote Test Station, Keyed, 2-Wire And SIGA (EST3 SD-TRK).....	88.32	19.32
28 46 21 33-0078	EA			Duct Smoke Detector Test Station, 2-Gang Plastic Plate With Key Switch, 2 Keys, Use With Duct Detector Only (EST3 SIGA-DTS).....	115.89	19.32
28 46 21 33-0079	EA			High Temp Heat Detector, 194 Degree F, Combination Rate-Of-Rise And Fixed Temperature (EST3 282B-PL).....	56.88	19.32
28 46 21 33-0080				Detectors, Smoke, Beam (28 46 21 33-0057)		
28 46 21 33-0081	EA			Fireray 2000 Beam Alignment Aid, For Quick Alignment Of Beam Detector Transmitter And Receiver Heads (EST3 0201-01-A).....	107.70	
28 46 21 33-0082	EA			Fireray 2000 Beam Smoke Detector (By Fire Fighting Enterprises) (EST3 22310-18-01).....	1,256.02	36.24
				Note: Includes controller and remote mount transmitter and receiver head.		
28 46 21 33-0083	EA			Fireray 2000 Beam Detector Prism, Use To Reflect Beam When Mounting Transmitter And Receiver Heads On Same Wall (EST3 23901-00).....	80.12	12.08
28 46 21 33-0084	EA			Replacement Reflector, For EC-50R/-100R Reflective Beam Detectors (EST3 23901-01).....	94.07	12.08
28 46 21 33-0085	EA			160 - 330' Reflective Beam Detector (EST3 EC-100R).....	1,283.91	36.24
28 46 21 33-0086	EA			15 - 160' Reflective Beam Detector (EST3 EC-50R).....	1,097.54	36.24
28 46 21 33-0087	EA			Remote Test Station, For EC-50R/-100R Reflective Beam Detectors (EST3 EC-LLT).....	257.18	12.08
28 46 21 33-0088	EA			160 - 330' Self Adjusting Reflective Beam Detector (EST3 EC-5000R).....	1,352.58	36.24
28 46 21 33-0089				Modules, Signature (28 46 21 33-0057)		
28 46 21 33-0090	EA			Universal Class A/B Module - UIO Mount (EST3 SIGA-MAB).....	151.85	24.16
28 46 21 33-0091	EA			Class B Single Input Module (One Gang Standard Mount) (EST3 SIGA-CT1).....	103.54	24.16
28 46 21 33-0092	EA			Class B Dual Input Module (One Gang Standard Mount) (EST3 SIGA-CT2).....	142.04	24.16
28 46 21 33-0093	EA			Class B Dual Input UIO (Plug In) Module (EST3 SIGA-MCT2).....	137.32	24.16
28 46 21 33-0094	EA			Single Input (Riser) Module, Features A Built-In Ring Tone Generator, Use For Switching A Single Signal Or Audio Circuit (EST3 SIGA-CC1).....	156.57	24.16
28 46 21 33-0095	EA			Dual Input (Riser) Module, Use For Switching (Selecting) Either Of Two Signal Or Audio Input Circuits To One Signal Output Circuit (EST3 SIGA-CC2).....	164.56	24.16
28 46 21 33-0096	EA			Control Relay Module (One Gang Standard Mount) (EST3 SIGA-CR).....	123.88	24.16
				Note: Select for either N.O. or N.C. operation. Rated at 2 amps (24Vdc).		
28 46 21 33-0097	EA			Control Relay UIO (Plug In) Module (EST3 SIGA-MCR).....	121.06	24.16
28 46 21 33-0098	EA			Single Input (Riser) Module With Strobe Synchronization Output (EST3 SIGA-CC1S).....	157.38	24.16
28 46 21 33-0099	EA			Universal Input/Output Module - Input With Programmable Output (EST3 SIGA-IO).....	153.73	24.16
28 46 21 33-0100	EA			Input/Output Module - UIO Mount, Multifunction Module With Input And Program (EST3 SIGA-MIO).....	148.30	24.16
28 46 21 33-0101	EA			Waterflow/Tamper Module (One Gang Standard Mount) (EST3 SIGA-WTM).....	137.03	112.87
28 46 21 33-0102	EA			Monitor Module (One Gang Standard Mount) (EST3 SIGA-MM1).....	103.75	24.16
				Note: Factory programmed for non-latching monitor operation.		
28 46 21 33-0103	EA			Single Input (Riser) Module, With Synchronization Output (EST3 SIGA-MCC1S).....	158.07	24.16
28 46 21 33-0104				Module Accessories, Signature (28 46 21 33-0057)		
				Note: Universal I/O motherboards are required for UIO plug-in modules. Module mounting plates can be used to mount multiple 1 & 2-gang modules.		
28 46 21 33-0105	EA			Module Mounting Bracket - For 4" Square Box, Mounting Kit Allows Installing 2 Single Gang Signature Modules Into A Single 4" Square Box (EST3 SIGA-MB4).....	42.41	12.08
28 46 21 33-0106	EA			Universal Input/Output Module Motherboard - 6 Position, Use For M Series Modules (EST3 SIGA-UIO6).....	135.56	24.16
28 46 21 33-0107	EA			Transient Protector - For Bell And Horn Circuits, Provides Transient Protection To -CC1, -MCC1, -CC2, -MCC2, -UM And -MAB Modules (EST3 235196P).....	17.22	7.24
28 46 21 33-0108	EA			Signature Module Mounting Plate, 1 Footprint, Space For Up To Four 2-Gang Signature Modules Or Eight 1-Gang Signature Modules (EST3 SIGA-MP1).....	48.69	12.08
28 46 21 33-0109	EA			Signature Module Mounting Plate, 1/2 Footprint, Space For Up To Two 2-Gang Signature Modules Or Four 1-Gang Signature Modules (EST3 SIGA-MP2).....	44.18	12.08
28 46 21 33-0110	EA			Signature Module Mounting Plate, 1/2 Extended Footprint, Space For Up To Three 2-Gang Signature Modules Or Six 1-Gang Signature Modules (EST3 SIGA-MP2L).....	45.96	12.08

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21	33-0111		Single Action Pull Stations, Signature (28 46 21 33-0057)		
28 46 21	33-0112	EA	One Stage Fire Alarm Station, English Markings (EST3 SIGA-270).....	178.45	50.25
28 46 21	33-0113	EA	Two Stage (Pre Signal) Fire Alarm Station, English Markings (EST3 SIGA-270P).....	205.70	50.25
28 46 21	33-0114	EA	GA Key - For Pre Signal Station (EST3 276-K2).....	23.50	18.68
28 46 21	33-0115	EA	20 Glass Rods For SIGA-270 Series Stations (EST3 270-GLR).....	28.75	23.93
28 46 21	33-0116	EA	Surface Mount Box, Red - For SIGA-270 Series (EST3 276B-RSB).....	50.43	31.09
28 46 21	33-0117		Double Action Pull Stations, Signature (28 46 21 33-0057)		
28 46 21	33-0118	EA	Double Action (One Stage) Fire Alarm Station, English Markings (EST3 SIGA-278).....	183.10	50.25
28 46 21	33-0119	EA	12 Glass Rods For SIGA-278 Series (EST3 276-GLR).....	29.14	4.84
28 46 21	33-0120		Detector Bases and Accessories, Signature (28 46 21 33-0057)		
Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, and -PHS detectors and -SB, -RB and -IB bases.					
28 46 21	33-0121	EA	Audible (Sounder) Base (EST3 SIGA-AB4G).....	82.72	12.08
28 46 21	33-0122	EA	Surface Box - For Sounder Base, Use With -AB4G Models Only (EST3 AB4G-SB).....	35.11	12.08
28 46 21	33-0123	EA	Audible (Sounder) Base, Mounts To 4" Square, 2-1/8" Deep Box (EST3 SIGA-AB4).....	101.62	12.08
28 46 21	33-0124	EA	Detector (Smoke) Guard, Covers Detectors Mounted To Flush Boxes, Compatible With -IPHS And -PS Signature Detectors (EST3 SIGA-DG).....	60.56	12.08
28 46 21	33-0125	EA	Detector (Smoke) Guard Surface Box - For SIGA-DG (EST3 SIGA-DGSB).....	69.64	12.08
28 46 21	33-0126	EA	Detector Mounting Plate (EST3 SIGA-DMP).....	105.97	12.08
Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, -PHS and -IPHS detectors and -SB, -RB and -IB bases. SIGA-IPHS 4D detector is limited to operation in air velocities less than 500 feet per minute.					
28 46 21	33-0127	EA	Remote Alarm LED, Use With -SB And -SB4 Standard Base Only (EST3 SIGA-LED).....	42.41	12.08
28 46 21	33-0128	EA	Trim Skirt/Ring - For Octagon Box (EST3 SIGA-TS).....	17.29	7.24
28 46 21	33-0129	EA	Trim Skirt/Ring - For 4" Square Box, Use To Hide Imperfections Around Electric Boxes Not Completely Hidden By Standard Bases, With All 4" Bases (EST3 SIGA-TS4).....	17.29	7.24
28 46 21	33-0130	EA	Detector (Smoke) Guard Mounting Flange, Provides Secure Mounting While Offering Easy Guard Removal, With Tamper Hardware (EST3 SIGA-DGMF).....	41.83	7.24
28 46 21	33-0131	EA	Detector Base With Isolator (EST3 SIGA-IB).....	68.72	12.08
28 46 21	33-0132	EA	Detector Base With Isolator - For 4" Square Box, With TS4 Skirt (EST3 SIGA-IB4).....	72.62	12.08
28 46 21	33-0133	EA	Detector Base With Form 'C' Relay (EST3 SIGA-RB).....	61.94	12.08
28 46 21	33-0134	EA	Detector Base With Form 'C' Relay - For 4" Square Box, With TS4 Skirt (EST3 SIGA-RB4).....	61.93	12.08
28 46 21	33-0135	EA	Detector Base - Standard, For 4" Square Box, With TS4 Skirt (EST3 SIGA-SB4).....	36.51	12.08
28 46 21	33-0136		Controllers, Signature (28 46 21 33-0057)		
28 46 21	33-0137	EA	Signature Dual Driver Controller (EST3 3-SSDC1).....	2,141.31	72.48
28 46 21	33-0138	EA	Single Signature Loop Controller (EST3 3-SSDC1).....	1,245.09	72.48
28 46 21	33-0139	EA	Signature Loop Controller (EST3 3-SDC1).....	1,122.76	72.48
28 46 21	33-0140	EA	Analog Addressable Loop Controller (EST3 3-AADC1).....	1,774.64	72.48
28 46 21	33-0141		Relays And Accessories (28 46 21 33-0057)		
28 46 21	33-0142	EA	Multi Voltage Relay (EST3 MR101).....	125.27	24.16
28 46 21	33-0143	EA	Single SPDT Auxiliary Relay With LED Track Mounting (EST3 MR101/T).....	40.11	12.08
28 46 21	33-0144		Notification Appliances (28 46 21 33-0002)		
28 46 21	33-0145		Wall Strobes, Horns And Chimes (28 46 21 33-0144)		
28 46 21	33-0146	EA	Strobe (15, 30, 75, Or 110 cd Output), White (EST3 G1-VM).....	111.31	36.24
28 46 21	33-0147	EA	Strobe (15, 30, 75, Or 110 cd Output), Red (EST3 G1R-VM).....	111.31	36.24
28 46 21	33-0148	EA	Horn-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-HDVM).....	123.96	36.24
28 46 21	33-0149	EA	Temporal Horn (Selectable High Or Low dB Output), White (EST3 G1-HD).....	97.06	36.24
28 46 21	33-0150	EA	Temporal Horn (Selectable High Or Low dB Output), Red (EST3 G1R-HD).....	97.06	36.24
28 46 21	33-0151	EA	Temporal Horn, Hi/Lo dB Output, 24 VDC, White, With The Word "FIRE" On Housing (EST3 G1F-HD).....	97.06	36.24
28 46 21	33-0152	EA	Temporal Horn, Hi/Lo dB Output, 24 VDC, Red, With The Word "FIRE" On Housing (EST3 G1RF-HD).....	97.06	36.24
28 46 21	33-0153	EA	Horn (Steady Tone), 24 VDC, White, Not Compatible With Signal Master (EST3 G1-P).....	85.09	36.24
28 46 21	33-0154	EA	Horn (Steady Tone) - 24 VDC, Red, Not Compatible With Signal Master (EST3 G1R-P).....	85.09	36.24
28 46 21	33-0155	EA	Horn (Steady Tone), 24 VDC, Red, With The Word "FIRE" On Housing, Not Compatible With Signal Master (EST3 G1RF-P).....	85.09	36.24
28 46 21	33-0156	EA	Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-CVM).....	175.59	36.24
28 46 21	33-0157	EA	Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), Red (EST3 G1R-CVM).....	175.59	36.24
28 46 21	33-0158	EA	Genesis Chime (Selectable High Or Low dB Output), White (EST3 G1-C).....	122.42	36.24
28 46 21	33-0159	EA	Genesis Chime (Selectable High Or Low dB Output), Red (EST3 G1R-C).....	122.42	36.24
28 46 21	33-0160	EA	Wall Strobe, 15/75 cd, White, With The Word "FIRE" On Housing (EST3 G1F-V1575).....	111.31	36.24
28 46 21	33-0161	EA	Multi-cd Strobe, 24 VDC, White, With The Word "FIRE" On Housing (EST3 G1F-VM).....	111.31	36.24
28 46 21	33-0162	EA	Multi-Candela Strobe, 24 VDC, Red, With The Word "FIRE" On Housing (EST3 G1RF-VM).....	111.31	36.24
28 46 21	33-0163	EA	Wall Strobe, 15/75 cd, Red, With The Word "FIRE" On Housing (EST3 G1RF-V1575).....	111.31	36.24
28 46 21	33-0164	EA	Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCF-VM).....	114.87	36.24
28 46 21	33-0165	EA	Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCFR-VM).....	114.87	36.24
28 46 21	33-0166	EA	Genesis Ceiling Strobe, 95-177 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST GCF-VMH).....	123.19	36.24
28 46 21	33-0167	EA	Genesis Ceiling Strobe, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VM).....	114.87	36.24
28 46 21	33-0168	EA	Genesis Ceiling Strobe, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VMH).....	114.87	36.24
28 46 21	33-0169	EA	Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, White (EST3 G1T-FIRE).....	77.30	36.24
28 46 21	33-0170	EA	Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, Red (EST3 G1RT-FIRE).....	77.30	36.24



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0171				Wall Speakers And Speaker Strobes <small>(28 46 21 33-0144)</small>		
				28 46 21 33-0172 EA Multi-Wattage 25 VRMS Speaker (EST3 G4-S2)	95.99	36.24
				28 46 21 33-0173 EA Multi-Candela/Wattage 25 VRMS Speaker-Strobe (EST3 G4-S2VM)	136.11	36.24
				28 46 21 33-0174 EA Multi-Wattage 70 VRMS Speaker (EST3 G4-S7)	95.99	36.24
				28 46 21 33-0175 EA Multi-Candela/Wattage 70 VRMS Speaker-Strobe (EST3 G4-S7VM)	136.11	36.24
				28 46 21 33-0176 EA Surface Box, White, For Genesis Speaker (EST3 G4B)	48.44	19.32
				28 46 21 33-0177 EA Surface Box, Red, For Genesis Speaker (EST3 G4RB)	48.44	19.32
28 46 21 33-0178				Ceiling Speakers And Speaker Strobes <small>(28 46 21 33-0144)</small>		
				28 46 21 33-0179 EA Genesis Ceiling Speaker, 70 VRMS, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7)	110.54	36.24
				28 46 21 33-0180 EA Genesis Ceiling Speaker/Strobe, 70 VRMS, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VM)	136.11	36.24
				28 46 21 33-0181 EA Genesis Ceiling Speaker/Strobe, 70 VRMS, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VMH)	144.20	36.24
28 46 21 33-0182				Harsh Environment Signals <small>(28 46 21 33-0144)</small>		
				28 46 21 33-0183 EA Temporal Horn, Self-Synchronized, 24 VDC (EST3 757-1A-T)	100.58	36.24
				28 46 21 33-0184 EA 15/75 Candela Temporal Horn/Strobe, 24 VDC (EST3 757-7A-T)	132.51	36.24
				28 46 21 33-0185 EA 110 Candela Temporal Horn/Strobe, 24 VDC (EST3 757-8A-T)	132.51	36.24
				28 46 21 33-0186 EA 15 Candela Synchronized, 24 VDC, Strobe (EST3 405-5A-T)	123.02	36.24
				28 46 21 33-0187 EA 15/75 Candela Synchronized, 24 VDC, Strobe (EST3 405-7A-T)	116.71	36.24
				28 46 21 33-0188 EA 30 Candela Synchronized, 24 VDC, Strobe (EST3 405-3A-T)	123.02	36.24
				28 46 21 33-0189 EA 60 Candela Synchronized, 24 VDC, Strobe (EST3 405-6A-T)	123.02	36.24
				28 46 21 33-0190 EA 110 Candela Synchronized, 24 VDC, Strobe (EST3 405-8A-T)	123.02	36.24
				28 46 21 33-0191 EA 15/75 Candela Synchronized, 24 VDC, Red, Outdoor Listed, Strobe (EST3 CS405-7A-T)	136.60	41.07
				28 46 21 33-0192 EA 110 Candela Synchronized, 24 VDC, Red, Outdoor Listed, Strobe (EST3 CS405-8A-T)	136.60	41.07
				28 46 21 33-0193 EA 15 Candela Temporal Horn/Strobe, 24 VDC (EST3 757-5A-T)	104.46	36.24
				28 46 21 33-0194 EA 30 Candela Temporal Horn/Strobe, 24 VDC (EST3 757-3A-T)	129.53	36.24
28 46 21 33-0195				Fire Alarm Bells <small>(28 46 21 33-0144)</small>		
				28 46 21 33-0196 EA 10" Single Stroke Fire Alarm Bells, 24 VDC (EST3 323D-10AW)	141.37	36.24
				28 46 21 33-0197 EA 6" Vibrating Fire Alarm Bells, 24 VDC (EST3 439D-6AW)	117.52	36.24
				28 46 21 33-0198 EA 10" Vibrating Fire Alarm Bells, 24 VDC (EST3 439D-10AW)	127.70	36.24
28 46 21 33-0199				Multiple Tone Signal <small>(28 46 21 33-0144)</small>		
				28 46 21 33-0200 EA 27 Tone Selectable Signal, 24 VDC (EST3 5530MD-24AW)	788.01	751.77
28 46 21 33-0201				Multi-Purpose Loudspeaker <small>(28 46 21 33-0144)</small>		
				28 46 21 33-0202 EA 15 Watt Loudspeaker, Gray (EST3 HPSA15G2570)	179.40	36.24
				28 46 21 33-0203 EA 15 Watt Loudspeaker, Red (EST3 HPSA15R2570)	179.40	36.24
28 46 21 33-0204				Bell/Strobe Plate <small>(28 46 21 33-0144)</small>		
				28 46 21 33-0205 EA Bell/Strobe Plate - 15cd (EST3 403-5A-R)	91.36	19.32
28 46 21 33-0206				Mounting Accessories <small>(28 46 21 33-0144)</small>		
				28 46 21 33-0207 EA Surface Mount Box - Indoor, Red, 1-Gang (EST3 27193-11)	49.17	19.32
				28 46 21 33-0208 EA One Gang Surface Mount Box, Red, No Bottom KO (EST3 27193-11-NY)	49.17	19.32
				28 46 21 33-0209 EA Surface Mount Box - Indoor, White, 1-Gang (EST3 27193-16)	49.17	19.32
				28 46 21 33-0210 EA Surface Mount Box - Indoor, Red, 2-Gang (EST3 27193-21)	49.17	19.32
				28 46 21 33-0211 EA Surface Mount Box - Indoor, White, 2-Gang (EST3 27193-26)	49.17	19.32
28 46 21 33-0212				Firefighters' Telephones <small>(28 46 21 33-0144)</small>		
				28 46 21 33-0213 EA Remote Telephone Warden Station - Flush, Red, 5' Armored Cable, Hinged Door With Magnetic Latch, 4-State (EST3 6830-NY-F4)	722.67	60.40
				28 46 21 33-0214 EA Four State Remote Telephone Warden Station - Surface, Armored Cord (EST3 6830-NY-S4)	421.74	60.40
				28 46 21 33-0215 EA Remote Telephone Warden Station - Flush, Armored Cord (EST3 6830-NY-F)	313.37	60.40
				28 46 21 33-0216 EA Telephone Handset Assembly - Red c/w 60' Coiled Cord (EST3 6830-1)	237.82	60.40
				28 46 21 33-0217 EA Remote Telephone Handset Station - 4-State, Red, 5' Coiled Cord (EST3 6830-4)	408.25	60.40
				28 46 21 33-0218 EA Three State Telephone Handset Assembly - Red, 60' Coiled Cord, Push To Talk Button (EST3 6830-5A)	264.78	60.40
				28 46 21 33-0219 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Coiled Cord (EST3 6830-5A-4)	456.01	60.40
				28 46 21 33-0220 EA Three State Telephone Handset Assembly - Red, 60' Armored Cord, Push To Talk Button (EST3 6830-6A)	273.77	60.40
				28 46 21 33-0221 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Armored Cable (EST3 6830-6A-4)	517.17	60.40
				28 46 21 33-0222 EA Portable Handset Receptacle, 1 Gang Stainless Steel Faceplate (EST3 6833-1)	63.88	19.32
				28 46 21 33-0223 EA Portable Telephone Receptacle - 1-Gang, SS, 4-State (EST3 6833-4)	71.70	19.32
				28 46 21 33-0224 EA Portable Telephone Handset - Black, Coiled Cord (EST3 6830-3)	87.48	
				28 46 21 33-0225 EA Portable Telephone Handset - Red, Coiled Cord (EST3 6700-0061)	87.48	
				28 46 21 33-0226 EA Frontplate - Flush Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-1)	142.21	24.16
				28 46 21 33-0227 EA Frontplate - Flush Mount, Red Finish, Non Break Glass Type With Two Keys (EST3 6831-2)	173.35	24.16
				28 46 21 33-0228 EA Frontplate - Surface Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-3)	126.64	24.16
				28 46 21 33-0229 EA Frontplate - Surface Mount, Red Finish, Non Break Glass Type, With Two Keys (EST3 6831-4)	122.06	24.16

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0230 EA Wallbox - Flush Or Surface Mount, Red Finish, 14" x 8-1/2" x 3-1/2" (EST3 6832-1).....	100.93	36.24
28 46 21 33-0231 EA Portable Handset Storage Cabinet, Surface Mount, With Keylock, Red Finish (EST3 TCS-6).....	737.82	48.32
28 46 21 33-0232 Mass Notification EC Appliances (28 46 21 33-0144)		
28 46 21 33-0233 EA G1 Wall, Strobe, White Housing, Alert Markings, Amber Lens (EST3 G1WA-VMA).....	114.90	36.24
28 46 21 33-0234 EA G1 Wall, Strobe, White Housing, Alert Markings, Clear Lens (EST3 G1WA-VMC).....	111.66	36.24
28 46 21 33-0235 EA G1 Wall, Strobe, White Housing, No Markings, Amber Lens (EST3 G1WN-VMA).....	114.90	36.24
28 46 21 33-0236 EA G1 Wall, Strobe, White Housing, No Markings, Clear Lens (EST3 G1WN-VMC).....	111.66	36.24
28 46 21 33-0237 EA G1 Wall, White Trim Ring, Alert Marking (EST3 G1WT-ALERT).....	18.37	7.24
28 46 21 33-0238 Hazardous Location Devices (28 46 21 33-0002)		
28 46 21 33-0239 Detectors, Rate Compensation Heat, For Explosion/Weather/Moisture Proof And Ordinary Location (28 46 21 33-0238)		
28 46 21 33-0240 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 135 Degree F (EST3 302-135).....	104.59	36.24
28 46 21 33-0241 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 194 Degree F (EST3 302-194).....	104.59	36.24
28 46 21 33-0242 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 135 Degree F (EST3 302-AW-135).....	107.28	36.24
28 46 21 33-0243 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 194 Degree F (EST3 302-AW-194).....	107.28	36.24
28 46 21 33-0244 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 135 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-135).....	139.40	36.24
28 46 21 33-0245 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 194 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-194).....	139.40	36.24
28 46 21 33-0246 EA Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 135 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-135).....	107.28	36.24
28 46 21 33-0247 EA Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 194 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-194).....	107.28	36.24
28 46 21 33-0248 Hazardous Locations Fire Alarm Station (28 46 21 33-0238)		
28 46 21 33-0249 EA Hazardous Location Fire Alarm Station (EST3 XAL53).....	763.47	60.40
28 46 21 33-0250 EA Explosion Proof, Weatherproof, Fire Alarm Station, Single Action, Cat 45 Key Reset, Terminal Connections, DPDT (EST3 MPSR1-D45WX-GE).....	728.55	60.40
28 46 21 33-0251 Hazardous Location Strobes (28 46 21 33-0238)		
28 46 21 33-0252 EA Explosion Proof Strobe (EST3 116DEXSTC-FJ).....	1,102.84	36.24
28 46 21 33-0253 EA Wall Bracket Mounting Elbow (EST3 116EX-B).....	209.00	12.08
28 46 21 33-0254 EA Ceiling / Wall Mounting Module (EST3 116EX-C).....	272.64	14.50
28 46 21 33-0255 EA Pendant Mounting Module (EST3 116EX-P).....	202.37	14.50
28 46 21 33-0256 Hazardous Location Bells (28 46 21 33-0238)		
28 46 21 33-0257 EA 6" Hazardous Location Bells, 24 VDC (EST3 439DEX-6AW).....	801.84	36.24
28 46 21 33-0258 EA 8" Hazardous Location Bells, 24 VDC (EST3 439DEX-8AW).....	822.06	36.24
28 46 21 33-0259 EA 10" Hazardous Location Bells, 24 VDC (EST3 439DEX-10AW).....	829.34	36.24
28 46 21 33-0260 Hazardous Location Horns (28 46 21 33-0238)		
28 46 21 33-0261 EA Hazardous Location Horns (EST3 888D-N5).....	784.43	36.24
28 46 21 33-0262 EA Explosion Proof Horn, Diode Polarized, 24 VDC (EST3 889D-AW).....	644.55	36.24
28 46 21 33-0263 Door Holders And Relays (28 46 21 33-0002)		
28 46 21 33-0264 Electromagnetic Door Holders (28 46 21 33-0263)		
28 46 21 33-0265 EA Door Holder, Single, Floor Mount - 24 VAC / 24 VDC / 120 VAC (EST3 1501-AQN5).....	158.03	36.24
28 46 21 33-0266 EA Door Holder, Double, Floor Mount - 24 VAC / 24 VDC / 120 VAC (EST3 1502-AQN5).....	198.59	36.24
28 46 21 33-0267 EA Door Holder, Flush, Wall Mount - 24 VAC / 24 VDC / 120 VAC (EST3 1504-AQN5).....	137.31	36.24
28 46 21 33-0268 EA Door Holder, Flush, Wall Mount, Short Catch Plate - 24 VAC / 24 VDC / 120 VAC (EST3 1505-AQN5).....	137.31	36.24
28 46 21 33-0269 EA Door Holder, Surface, Wall Mount - 24 VAC / 24 VDC / 120 VAC (EST3 1508-AQN5).....	139.18	36.24
28 46 21 33-0270 EA Door Holder, Completely Flush, Wall Mount - 24 VAC / 24 VDC / 120 VAC (EST3 1509-AQN5).....	140.97	36.24
28 46 21 33-0271 Control Relays, Multi-Voltage (28 46 21 33-0263)		
28 46 21 33-0272 EA Single SPDT With LED, Adhesive Tape Mounting (EST3 PAM1).....	31.91	7.24
28 46 21 33-0273 FireShield Plus (28 46 21 33-0002)		
28 46 21 33-0274 3 Zone System (28 46 21 33-0273)		
28 46 21 33-0275 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amp NAC Power, Red Enclosure, 120 VAC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302R).....	911.22	289.92
28 46 21 33-0276 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amp NAC Power, Red Enclosure, 120 VAC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302RD).....	1,306.55	386.55
28 46 21 33-0277 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amp NAC Power, Gray Enclosure, 120 VAC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302G).....	911.22	289.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0278 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amp NAC Power, Gray Enclosure, 120 VAC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302GD)	1,306.55	386.55
28 46 21 33-0279 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G).....	59.12	12.08
28 46 21 33-0280 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R)	59.12	12.08
28 46 21 33-0281 5 Zone System <small>(28 46 21 33-0273)</small>		
28 46 21 33-0282 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amp NAC Power, Red Enclosure, 120 VAC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502R)	967.80	289.92
28 46 21 33-0283 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amp NAC Power, Red Enclosure, 120 VAC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502RD)	1,359.90	386.55
28 46 21 33-0284 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amp NAC Power, Gray Enclosure, 120 VAC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502G)	967.80	289.92
28 46 21 33-0285 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amp NAC Power, Gray Enclosure, 120 VAC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502GD)	1,359.90	386.55
28 46 21 33-0286 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G).....	59.12	12.08
28 46 21 33-0287 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R)	59.12	12.08
28 46 21 33-0288 10 Zone System <small>(28 46 21 33-0273)</small>		
28 46 21 33-0289 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amp NAC Power, Red Enclosure, 120 VAC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004R)	1,379.30	386.55
28 46 21 33-0290 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amp NAC Power, Red Enclosure, 120 VAC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004RD)	1,774.64	483.19
28 46 21 33-0291 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amp NAC Power, Gray Enclosure, 120 VAC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004G)	1,355.05	386.55
28 46 21 33-0292 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amp NAC Power, Gray Enclosure, 120 VAC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004GD)	1,774.64	483.19
28 46 21 33-0293 EA Semi Flush Trim Kit For 10 Zone Enclosures, Gray (EST3 F-TRIM10G)	67.87	12.08
28 46 21 33-0294 EA NAC Power Expansion Transformer, 120 VAC, Increases 10 Zone FACP NAC (EST3 F-XTR120)	125.29	24.16
28 46 21 33-0295 FireShield Plus Off Premise Communication Options <small>(28 46 21 33-0273)</small>		
28 46 21 33-0296 EA F-Series Upload/Download DACT And Modem, Dual Line, With 2x16 LCD (EST3 F-DACT).....	258.46	24.16
28 46 21 33-0297 FireShield Plus Remote LED Annunciators <small>(28 46 21 33-0273)</small>		
28 46 21 33-0298 EA Remote System Indicator, Power, Alarm, Supervisory, Trouble And Ground Fault LED's With Local Buzzer, Single Gang, And White Trim Plate (EST3 FSRSI)	124.93	36.24
28 46 21 33-0299 EA Remote Zone Indicator, Contains 5 Red LED's For Alarm Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-A)	124.93	36.24
28 46 21 33-0300 EA Remote Zone Indicator, Contains 5 Bi-Color LED's (Red/Yellow) For Alarm Or Supervisory Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-SA)	129.06	36.24
28 46 21 33-0301 EA Remote Annunciator Trim Plate - 2 Gang - White (EST3 FSAT2)	25.01	7.24
28 46 21 33-0302 EA Remote Annunciator Trim Plate - 3 Gang - White (EST3 FSAT3)	30.29	7.24
28 46 21 33-0303 EA Remote Annunciator Trim Plate - 4 Gang - White (EST3 FSAT4)	42.96	7.24
28 46 21 33-0304 FireShield Plus Remote 10 Zone LED Annunciators <small>(28 46 21 33-0273)</small>		
28 46 21 33-0305 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10)	347.28	36.24
28 46 21 33-0306 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators And Common Control Switches, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10C)	379.62	36.24
28 46 21 33-0307 EA Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Gray (EST3 RA-ENC1)	129.14	24.16
28 46 21 33-0308 FireShield Plus Remote Relays And Interfaces <small>(28 46 21 33-0273)</small>		
28 46 21 33-0309 EA Remote Relay Module, 5 Form C Contacts, Jumper Selectable Operation, With Mounting Track (EST3 FSRRM24)	135.74	24.16
28 46 21 33-0310 EA 11" Snap Track Holds 2-4 RRRMs, Used To Mount FSRRMs In MFC-A Or Other Listed Enclosure, MFC-A Will Hold Two FSRRM-11S (EST3 FSRRM-S11)	58.77	14.50
28 46 21 33-0311 EA Common Function Graphic Driver/Interface - 9 Relays And 5 Switch Inputs For Common System Indicators And Controls (EST3 FSUIM)	208.35	24.16
28 46 21 33-0312 FireShield Plus Accessories <small>(28 46 21 33-0273)</small>		
28 46 21 33-0313 EA Resistor Kit With 1-3.6K And 1-1.1K (46071-0409) (EST3 EOL3.6-1.1)	13.42	
28 46 21 33-0314 EA 4.7k UL End Of Line Resistor With FireShield Panels (EST3 EOL47PK7)	9.00	
28 46 21 33-0315 iO Series Fire Control Panels <small>(28 46 21 33-0002)</small>		
28 46 21 33-0316 Intelligent Analog Control Panels <small>(28 46 21 33-0315)</small>		
28 46 21 33-0317 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amp Power Supply, Gray Door, 115 VAC, Capacity For Up (2) 18a/h Batteries, English (EST3 IO500G)	2,786.28	483.19

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0318 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amp Power Supply, Gray Door, 115 VAC, Capacity For Up (2) 18 a/h Batteries, With Dual Line Dialer/Modem, English (EST3 iO500GD)	2,943.08	483.19
28 46 21 33-0319 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amp Power Supply, Gray Door, 115 VAC, Capacity For Up (2) 10 a/h Batteries, English (EST3 iO64G)	2,225.15	386.55
28 46 21 33-0320 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amp Power Supply, Gray Door, 115 VAC, Capacity For Up (2) 10a/h Batteries, With Dual Line Dialer/Modem, English (EST3 iO64GD)	2,297.89	386.55
28 46 21 33-0321 Option Modules And Accessories For iO Series (28 46 21 33-0315)		
28 46 21 33-0322 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Left Side Mounting, Zones 1-16 (EST3 D16L-iO-1)	234.13	36.24
28 46 21 33-0323 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Right Side Mounting, Zones 17-32, Requires D16L-iO-1 (EST3 D16L-iO-2)	153.30	36.24
28 46 21 33-0324 EA Serial Interface, RS232, 4 Terminal Connections For Supervised/Unsupervised Printers And Connection To PC's (EST3 SA-232)	153.30	36.24
28 46 21 33-0325 EA Class A NAC Module, For 64 Point Systems Only, Mounts To Main Board (EST3 SA-CLA)	129.14	24.16
28 46 21 33-0326 EA Dialer/Modem, Two Telephone Line Connections, RJ31, Mounts To Base Plate (EST3 SA-DACT)	248.80	19.32
28 46 21 33-0327 EA Ethernet Port Interface, RJ45, Mounts To Base Plate (EST3 SA-ETH)	442.78	19.32
28 46 21 33-0328 EA Trim Kit For Semi-Flush Mounting 64 Point Systems (EST3 SA-TRIM1)	58.11	12.08
28 46 21 33-0329 EA Trim Kit For Semi-Flush Mounting 500 Point Systems (EST3 SA-TRIM2)	66.19	12.08
28 46 21 33-0330 EA Expansion Loop For iO500 Systems, 125 Detectors/125 Modules, Mounts On Main Board (EST3 XAL250)	824.06	48.32
28 46 21 33-0331 Remote Annunciators For iO Series (28 46 21 33-0315)		
28 46 21 33-0332 EA Remote Annunciator, 80 Character LCD, Common System Indicators, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD)	456.39	36.24
28 46 21 33-0333 EA Remote Annunciator, 80 Character LCD, Common System Indicators And Controls, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD-C)	476.60	36.24
28 46 21 33-0334 Remote Annunciator Accessories (28 46 21 33-0315)		
28 46 21 33-0335 EA 24 Expander Cable Assembly, With Cable And Hardware (EST3 730073)	56.49	12.08
28 46 21 33-0336 EA 12 Expander Cable (Cable Only) (EST3 7120313-01)	40.32	12.08
28 46 21 33-0337 EA 24 Expander Cable (Cable Only) (EST3 7120313-02)	52.44	12.08
28 46 21 33-0338 EA Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC1)	153.30	36.24
28 46 21 33-0339 EA Dual Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC2)	173.50	36.24
28 46 21 33-0340 EA Three Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC3)	193.72	36.24
28 46 21 33-0341 EA Blank Zone Card Insert For RLEDx Controllers (EST3 RA-LED16ZC)	40.32	12.08
28 46 21 33-0342 EA Blank Zone Card Insert For RLED24x Controllers (EST3 RA-LED24ZC)	40.32	12.08
28 46 21 33-0343 EA Remote Key Switch, Single Gang Mount, Provides Keyed Control To Enable/Disable Common Control Switches On Remote Annunciators (EST3 RKEY)	75.64	12.08
28 46 21 33-0344 System Accessories (28 46 21 33-0315)		
28 46 21 33-0345 EA Battery Cabinet, 14" x 18.25" x 7.25" Free Standing Cabinet With Key Lock, Supports Up To 40 Amp Hours Batteries, Will Hold Up To Two 12 VDC, 24 Amp Batteries (EST3 BC-1)	271.38	48.32
28 46 21 33-0346 EA Isolator Module - RS232, For Use With Short Haul Modems, VDU-3, CCA Series, CGP Series And FCOM-232, Requires 1/2 Size Cabinet Footprint (EST3 IOP3A)	1,324.66	386.55
28 46 21 33-0347 Conventional Initiating Devices (28 46 21 33-0002)		
28 46 21 33-0348 Detectors, Heat, Double Pole (28 46 21 33-0347)		
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		
28 46 21 33-0349 EA Heat Detector, 135 Degree F Fixed Temperature (CF135-2)	116.04	36.24
28 46 21 33-0350 EA Heat Detector, 200 Degree F Fixed Temperature (CF200-2)	116.04	36.24
28 46 21 33-0351 EA Heat Detector, 135 Degree F ROR/Fixed Temperature (CR135-2)	116.04	36.24
28 46 21 33-0352 EA Heat Detector, 200 Degree F ROR/Fixed Temperature (CR200-2)	116.04	36.24
28 46 21 33-0353 Detectors, Rate Compensation Heat, Accessories (28 46 21 33-0347)		
28 46 21 33-0354 EA Heat Detector, Rate Compensation, Adapter Plate For Mounting 302 And 302-AW To Any 3 Outlet Box Or 4" Octagon Outlet Box (GE AP-P)	78.58	36.24
28 46 21 33-0355 EA Explosion Proof Outlet Body With Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE JALX11)	170.79	19.32
28 46 21 33-0356 EA 4" Weatherproof, Octagon Backbox And Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE STONCO27)	64.07	24.16
28 46 21 33-0357 Detectors, Heat, Fire-Lite (28 46 21 33-0347)		
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		
28 46 21 33-0358 EA Explosion Heat Detector, 135 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-135)	109.85	36.24
28 46 21 33-0359 EA Explosion Heat Detector, 194 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-194)	109.85	36.24
28 46 21 33-0360 Audio Notification Systems (Standalone Voice Evacuation) (28 46 21 33-0002)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0361 Audio Notification Panels <small>(28 46 21 33-0360)</small>		
28 46 21 33-0362 EA Audio Notification Panel, 100W Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS100MDG)	3,366.89	483.19
28 46 21 33-0363 EA Audio Notification Panel, 100W Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS100MDR)	3,366.89	483.19
28 46 21 33-0364 EA Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS25MDG)	2,582.89	483.19
28 46 21 33-0365 EA Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS25MDR)	2,582.89	483.19
28 46 21 33-0366 EA Audio Notification Panel, 50W Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS50MDG)	2,970.85	483.19
28 46 21 33-0367 EA Audio Notification Panel, 50W Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS50MDR)	2,970.85	483.19
28 46 21 33-0368 Audio Notification Expander Panels <small>(28 46 21 33-0360)</small>		
28 46 21 33-0369 EA Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS100XG)	2,647.55	483.19
28 46 21 33-0370 EA Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS100XR)	2,647.55	483.19
28 46 21 33-0371 EA Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS25XG)	1,887.79	483.19
28 46 21 33-0372 EA Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS25XR)	1,887.79	483.19
28 46 21 33-0373 EA Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS50XG)	2,332.33	483.19
28 46 21 33-0374 EA Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS50XR)	2,332.33	483.19
28 46 21 33-0375 Audio Notification Output Accessories <small>(28 46 21 33-0360)</small>		
28 46 21 33-0376 EA Zone Adapter, 1 Circuit To 2 Circuit's (GE ANSZC2B)	96.90	12.08
28 46 21 33-0377 EA Zone Splitter, 2 Class A Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS2A)	412.03	24.16
28 46 21 33-0378 EA Zone Splitter, 4 Class B Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS4B)	412.03	24.16
28 46 21 33-0379 EA Class A Converter (GE ANSZSC4A)	298.88	24.16
28 46 21 33-0380 Audio Notification Remote Microphone <small>(28 46 21 33-0360)</small>		
28 46 21 33-0381 EA Microphone (GE ANSMIKE)	121.06	24.16
28 46 21 33-0382 EA Remote Microphone, Supervised In Surface/Semi-Flush Gray Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMG)	452.44	24.16
28 46 21 33-0383 EA Remote Microphone, Supervised In Surface/Semi-Flush Red Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMR)	452.44	24.16
28 46 21 33-0384 EA Remote Microphone Supervisory Card, One Per System, Supervises Up To 5 Remote Microphones (GE ANSREMSUP)	104.98	12.08
28 46 21 33-0385 EA Relay Card For Supervision/Zone Splitter To Remote Microphone (GE ANSZSR)	60.52	12.08
28 46 21 33-0386 Audio Notification Accessories <small>(28 46 21 33-0360)</small>		
28 46 21 33-0387 EA Audio Matching - Line Input/Output Card (GE ANSAUX)	193.80	24.16
28 46 21 33-0388 EA Class B Backup Amplifier Switching Module (GE ANSBKUP)	193.80	24.16
28 46 21 33-0389 EA Class A Backup Amplifier Switching Module (GE ANSBKUPA)	193.80	24.16
28 46 21 33-0390 EA Eight Input Remote Serial Interface Module, Accepts Dry Contact Interface To Control Up To 8 Messages, Message Recording Included With Module, For Industrial Signaling Only, Not UL Listed For Fire Alarm / Life Safety Applications (GE ANSRIS18)	412.03	24.16
28 46 21 33-0391 Audio Notification Modules, Without Cabinet And Transformer <small>(28 46 21 33-0360)</small>		
28 46 21 33-0392 EA 100W Expander Module (No Microphone OR DMR), Requires Transformer Ordered Separately (GE ANS100A)	1,478.75	48.32
Note: Excludes cabinet.		
28 46 21 33-0393 EA 100W Expander Module With Microphone (No DMR), Requires Transformer Ordered Separately (GE ANS100AM)	1,551.49	48.32
Note: Excludes cabinet.		
28 46 21 33-0394 EA 100W Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS100AMD)	2,133.43	48.32
Note: Excludes cabinet.		
28 46 21 33-0395 EA 25 Watt Expander Module (No Microphone Or DMR), Requires Transformer Ordered Separately (GE ANS25A)	824.06	48.32
Note: Excludes cabinet.		
28 46 21 33-0396 EA 25 Watt Expander Module With Microphone (No DMR), Requires Transformer (GE ANS25AM)	824.06	48.32
Note: Excludes cabinet.		
28 46 21 33-0397 EA 25 Watt Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS25AMD)	1,478.75	48.32
28 46 21 33-0398 EA 50W Expander Module (No Microphone Or DMR) (GE ANS50A)	1,187.78	48.32
Note: Excludes cabinet.		
28 46 21 33-0399 EA 50W Expander Module With Microphone (No DMR) (GE ANS50AM)	1,260.52	48.32
Note: Excludes cabinet.		
28 46 21 33-0400 EA 50W Audio Notification Module With DMR And Microphone (GE ANS50AMD)	1,842.46	48.32
Note: Excludes cabinet.		
28 46 21 33-0401 EA Power Transformer, Open Frame, 28 VAC @ 180 VA (EVAX 50/100) (GE ANST28180)	96.90	12.08
28 46 21 33-0402 EA Power Transformer, Open Frame, 28 VAC @ 100 VA (EVAX 25) (GE ANST2885)	73.50	12.08

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

28 46 21 33-0403		Simplex Fire Alarm (28 46 21 33)		
28 46 21 33-0404		4100 Fire Alarm Control Panel (28 46 21 33-0403)		
28 46 21 33-0405	EA	4100U Master Controller Assembly With LCD And Operator Interface, 9 Amp System Power Supply/Battery Charger (SPS), 250 Point IDNet Interface, 3 NACS, Auxiliary Relay And External RUI Communications Interface, 120 VAC Input (Simplex 4100-9111)	4,381.07	482.51
28 46 21 33-0406	EA	4100ES NDU With Master Controller, LCD And Operator Interface, Network Interface Module (Select Media Card Separately), 9 Amp System Power Supply/Battery Charger, And External RUI Communications Interface (Power Supply/Battery Charger Is An SPS With Its IDNet Channel And NACs Disabled), 120 VAC Input (Simplex 4100-9141)	4,732.18	482.51
28 46 21 33-0407	EA	4100ES NDU With VCC Includes The First Bay Equipment Described For The NDU And A Second Bay Assembly With Separate: Master Controller For Voice Functions, Network Interface (Select Media Card Separately), And A Standard SPS With 250 Point IDNet Channel; And 3, 3 A Class A/B NACs Capable Of SmartSync Two-Wire Operation, 120 V Input (Simplex 4100-9142)	6,571.10	482.51
28 46 21 33-0408	EA	IDNet Module, Up To 127 Points (Simplex 4100-3104)	3,001.29	482.51
		Note: Add-on module.		
28 46 21 33-0409	EA	IDNet Module, Up To 64 Points (Simplex 4100-3105)	2,465.83	482.51
		Note: Add-on module.		
28 46 21 33-0410	EA	Expansion Power Supply, 3 NACs, 120 VAC (Simplex 4100-5101)	1,292.04	120.63
		Note: Add-on module.		
28 46 21 33-0411	EA	Alarm Relay, 3 Form C Relays, 2 Amp @ 32 VDC, For SPS Or RPS (Simplex 4100-6033)	269.66	24.13
		Note: Add-on module.		
28 46 21 33-0412	EA	Dual Port RS-232 Interface Card (Simplex 4100-6038)	748.79	24.13
		Note: Add-on module.		
28 46 21 33-0413		4100U Backbox (28 46 21 33-0403)		
28 46 21 33-0414	EA	2 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9425)	1,329.08	96.51
		Note: 24" x 40" beige backbox.		
28 46 21 33-0415	EA	3 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9443)	1,850.01	96.51
		Note: 24" x 56" beige backbox.		
28 46 21 33-0416		DACT (Digital Alarm Communicator Transmitter) (28 46 21 33-0403)		
28 46 21 33-0417	EA	6 Zone Fire Control Communicator (Silent Knight SK-5104)	725.17	48.25
28 46 21 33-0418		4010 Fire Alarm Control Panel (28 46 21 33-0403)		
28 46 21 33-0419	EA	120 VAC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, External N2 Communications Interface, And Internal Common Event Reporting DACT (Simplex 4010-9101)	4,165.88	482.51
28 46 21 33-0420	EA	240 VAC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, And External N2 Communications Interface (Simplex 4010-9201)	4,058.96	482.51
28 46 21 33-0421	EA	Dual Circuit Class A NAC Adapter Module (Simplex 4010-9806)	145.20	24.13
28 46 21 33-0422	EA	Dual RS-232 Interface Module Expansion Slot Option (Simplex 4010-9811)	586.18	24.13
28 46 21 33-0423	EA	Single RS-232 Interface Module With Service Modem Connection Expansion Slot Option (Simplex 4010-9812)	800.98	24.13
28 46 21 33-0424	EA	120 VAC, 4 Amp Expansion Power Supply Expansion Module (Simplex 4010-9813)	417.97	24.13
28 46 21 33-0425	EA	240 VAC, 4 Amp Expansion Power Supply Expansion Module (Simplex 4010-9823)	451.22	24.13
28 46 21 33-0426	EA	Battery Meter Module Expansion Module (Simplex 4010-9820)	177.51	24.13
28 46 21 33-0427		Printer (28 46 21 33-0403)		
28 46 21 33-0428	EA	24 Pin Dot Matrix Printer (Simplex 4190-9013)	1,282.02	24.13
28 46 21 33-0429		NAC Panel / Power Booster (28 46 21 33-0403)		
28 46 21 33-0430	EA	IDNet NAC Extender With 4, Class B (Style Y) NACs and 8 Amp Power Supply, 120 VAC (Simplex 4009-9201)	886.38	120.63
		Note: Power supply for horns and strobes.		
28 46 21 33-0431		Battery (28 46 21 33-0403)		
28 46 21 33-0432	EA	50 Amp Hours Sealed Lead Acid Battery (Simplex 2081-9296)	526.28	24.13
		Note: Two required for 24 volt DC.		
28 46 21 33-0433	EA	33 Amp Hours Sealed Lead Acid Battery (Simplex 2081-9276)	354.01	24.13
		Note: Two required for 24 volt DC.		
28 46 21 33-0434	EA	6.2 Amp Hours Sealed Lead Acid Battery (Simplex 2081-9272)	135.82	24.13
		Note: Two required for 24 volt DC.		
28 46 21 33-0435		Interface Modules (28 46 21 33-0403)		
28 46 21 33-0436	EA	Supervised Individual Addressable Modules (Simplex 4090-9001)	112.15	24.13
		Note: Monitor modules for waterflow/tamper, etc.		
28 46 21 33-0437	EA	Relay Individual Addressable Modules (Simplex 4090-9002)	218.48	24.13
		Note: Control modules for gas shutdown, door holders, etc.		
28 46 21 33-0438	EA	Relay SPDT With LED MR-801/T (Simplex 2088-9032)	62.05	24.13
		Note: Interface relay for 120VAC		
28 46 21 33-0439	EA	SmartSync™ Adapter Module For Non-Addressable Notification Appliance Circuits (NACs) (Simplex 4905-9815)	113.32	24.13
28 46 21 33-0440	EA	Surface Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9817)	51.14	12.06
28 46 21 33-0441	EA	Flush Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9818)	48.89	12.06



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0442 Pull Stations <small>(28 46 21 33-0403)</small>		
28 46 21 33-0443 EA Addressable Single Action Manual Pull Station (Simplex 4099-9001).....	134.96	24.13
28 46 21 33-0444 EA N.O. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9101).....	100.04	24.13
28 46 21 33-0445 EA N.C. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9102).....	106.78	24.13
28 46 21 33-0446 EA Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9103).....	96.99	24.13
28 46 21 33-0447 EA N.O. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9104).....	111.29	24.13
28 46 21 33-0448 EA N.C. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9105).....	162.67	24.13
28 46 21 33-0449 EA Pre-Signal, N.O. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9107).....	138.31	24.13
28 46 21 33-0450 EA Pre-Signal, N.O. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9108).....	160.82	24.13
28 46 21 33-0451 EA Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9754).....	81.28	24.13
28 46 21 33-0452 EA Local Alarm Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9755).....	85.39	24.13
28 46 21 33-0453 EA Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9756).....	98.66	24.13
28 46 21 33-0454 EA N.C. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9758).....	146.89	24.13
28 46 21 33-0455 EA Pre-Signal, N.O. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9759).....	245.51	24.13
28 46 21 33-0456 EA Institutional Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9762).....	88.78	24.13
28 46 21 33-0457 EA Surface Mount Steel Box For Manual Pull Station (Simplex 2975-9178).....	53.40	12.06
28 46 21 33-0458 Weatherproof Pull Stations <small>(28 46 21 33-0403)</small>		
28 46 21 33-0459 EA Weather Proof Single Action Pull Station, Cast Metal, B Lock, SPST (Simplex 2099-9138).....	134.46	28.95
28 46 21 33-0460 EA Surface Mount Cast Aluminum Box For Exterior Pull Station (Simplex 2975-9211).....	83.31	12.06
28 46 21 33-0461 Heat / Smoke Sensor <small>(28 46 21 33-0403)</small>		
28 46 21 33-0462 EA 32 To 122 Degree F Heat Sensor (Simplex 4098-9733).....	138.70	36.19
28 46 21 33-0463 EA Photoelectric Smoke Sensor (Simplex 4098-9714).....	193.97	36.19
28 46 21 33-0464 EA Sensor Base With Relay Driver (Simplex 4098-9791).....	349.42	12.06
28 46 21 33-0465 EA Standard Sensor Base (Simplex 4098-9792).....	180.47	12.06
28 46 21 33-0466 EA Remote Supervised Relay Accessory For Sensor Base With Relay Driver (Simplex 2098-9737).....	112.56	24.13
Note: Relay for 4098-9791		
28 46 21 33-0467 Explosion Proof Heat Detector <small>(28 46 21 33-0403)</small>		
28 46 21 33-0468 EA 135 Degree F Explosion Proof Heat Detector (Simplex 2098-9488).....	145.77	36.19
28 46 21 33-0469 EA Explosion Proof Backbox (Killark JLX-21).....	89.43	12.06
28 46 21 33-0470 EA Explosion Proof Backbox Plugs (Killark CUP-2).....	8.82	2.41
28 46 21 33-0471 Weatherproof Heat Detector <small>(28 46 21 33-0403)</small>		
28 46 21 33-0472 EA 194 Degree F Fixed Hardwired Weatherproof Heat Detector (Simplex 2098-9490).....	110.26	36.19
28 46 21 33-0473 200 Degree F Heat Detector <small>(28 46 21 33-0403)</small>		
28 46 21 33-0474 EA 194 Degree F Heat Detector, ROR/Fixed Temperature (Simplex 5604).....	94.38	36.19
Note: Used in kiln rooms and kitchens.		
28 46 21 33-0475 Duct Smoke Sensor <small>(28 46 21 33-0403)</small>		
28 46 21 33-0476 EA Duct Sensor Housing (Simplex 4098-9755).....	287.20	19.30
28 46 21 33-0477 EA Duct Sensor Housing With Supervised Output For Multiple Remote Relays, 4-Wire (Simplex 4098-9756).....	395.84	43.42
Note: Relay output for AHU shutdown.		
28 46 21 33-0478 EA 46" To 71" Duct Sampling Tube (Simplex 2098-9798).....	47.61	12.06
Note: 25", 49", 73" or 97" sampling tube length.		
28 46 21 33-0479 EA Remote Duct Test Station With Key Switch And Red LED Status Indicator (Simplex 2098-9806).....	116.96	36.19
28 46 21 33-0480 Interior Horn <small>(28 46 21 33-0403)</small>		
28 46 21 33-0481 EA Red With White "FIRE" Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9850).....	109.57	36.19
28 46 21 33-0482 EA White With Red "FIRE" Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9853).....	109.57	36.19
28 46 21 33-0483 Interior Horn Strobe <small>(28 46 21 33-0403)</small>		
28 46 21 33-0484 EA Wall Mounted Horn Strobe, 75Cd, Red (Simplex 4903-9426).....	144.69	36.19
28 46 21 33-0485 EA Wall Mounted Horn Strobe, 110Cd, Red (Simplex 4903-9427).....	144.69	36.19
28 46 21 33-0486 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9127).....	136.68	36.19
28 46 21 33-0487 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9128).....	136.68	36.19
28 46 21 33-0488 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9129).....	136.68	36.19
28 46 21 33-0489 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9130).....	136.68	36.19
28 46 21 33-0490 EA Weatherproof, Red Housing, White Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9131).....	139.37	36.19

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0491	EA		Weatherproof, White Housing, Red Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9132).....	139.37	36.19
28 46 21 33-0492	EA		Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9139).....	144.09	36.19
28 46 21 33-0493	EA		Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9140).....	141.91	36.19
28 46 21 33-0494	EA		Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9141).....	144.09	36.19
28 46 21 33-0495	EA		Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9142).....	141.91	36.19
28 46 21 33-0496	EA		Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9227).....	136.68	36.19
28 46 21 33-0497	EA		Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9228).....	136.68	36.19
28 46 21 33-0498	EA		Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9229).....	136.68	36.19
28 46 21 33-0499	EA		Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9230).....	136.68	36.19
28 46 21 33-0500			Interior Strobe <small>(28 46 21 33-0403)</small>		
28 46 21 33-0501	EA		Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9101).....	119.66	36.19
28 46 21 33-0502	EA		Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9102).....	119.66	36.19
28 46 21 33-0503	EA		Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9103).....	119.62	36.19
28 46 21 33-0504	EA		Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9104).....	119.66	36.19
28 46 21 33-0505	EA		Weatherproof, Red Housing, White Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9105).....	129.84	36.19
28 46 21 33-0506	EA		Weatherproof, White Housing, Red Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9106).....	129.84	36.19
28 46 21 33-0507	EA		Wall Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9109).....	130.49	36.19
28 46 21 33-0508	EA		Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9110).....	132.26	36.19
28 46 21 33-0509	EA		Wall Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9111).....	132.26	36.19
28 46 21 33-0510	EA		Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9112).....	132.26	36.19
28 46 21 33-0511	EA		Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9201).....	119.66	36.19
28 46 21 33-0512	EA		Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9202).....	119.66	36.19
28 46 21 33-0513	EA		Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9203).....	119.66	36.19
28 46 21 33-0514	EA		Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9204).....	119.66	36.19
28 46 21 33-0515			Interior Speakers <small>(28 46 21 33-0403)</small>		
28 46 21 33-0516	EA		Red With White "FIRE" Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9716).....	100.95	36.19
28 46 21 33-0517	EA		White With Red "FIRE" Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9717).....	100.95	36.19
28 46 21 33-0518	EA		Ceiling Or Wall Mount, Round Housing Speaker (Simplex 4902-9721).....	100.95	36.19
28 46 21 33-0519			Interior Speaker Strobe <small>(28 46 21 33-0403)</small>		
28 46 21 33-0520	EA		Red Housing, White Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9151).....	152.62	36.19
28 46 21 33-0521	EA		White Housing, Red Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9153).....	152.62	36.19
28 46 21 33-0522			Surge Suppressors <small>(28 46 21 33-0403)</small>		
28 46 21 33-0523	EA		Overvoltage Suppressor (Simplex 2081-9044).....	90.27	7.23
28 46 21 33-0524	EA		Isolated Loop Circuit Protector (Simplex 2081-9028).....	59.08	7.23
28 46 21 33-0525	EA		120 VAC, 20 Amp Multi Stage Hybrid Surge Protector With EMI/RFI Filtering (Ditek 120S20A).....	189.06	7.23
28 46 21 33-0526	EA		24 VAC Data And Loop Circuit Surge Protector (Ditek DTK-2MHLP24B).....	67.12	7.23
28 46 21 33-0527	EA		Mounting Base For Two DTK-2MHLP (Ditek DTK-2MB).....	101.72	12.06
28 46 21 33-0528	EA		120 VAC, 22,500 Amp, Equipment Panel/Dedicated Circuit Surge Protector (Ditek DTK-120HW).....	68.71	7.23
28 46 21 33-0529	EA		<105 VAC, 9,000 Amp, RJ31 Connection, Alarm Dialer Surge Protection (Ditek DTK-MRJ31SCWP).....	52.64	7.23
28 46 21 33-0530			Boxes And Adapters <small>(28 46 21 33-0403)</small>		
28 46 21 33-0531	EA		Semi-Flush Mount Modular Adapter Using Standard 4" Square Electrical Box (Simplex 4905-9921).....	48.89	12.06
28 46 21 33-0532	EA		Surface Mount Modular Adapter Using Simplex Box (Simplex 4905-9925).....	46.64	12.06
28 46 21 33-0533	EA		Red, Surface Mount Adapter Skirt (Simplex 4905-9937).....	42.23	12.06
28 46 21 33-0534	EA		White, Surface Mount Adapter Skirt (Simplex 4905-9940).....	35.97	12.06
28 46 21 33-0535			Accessories <small>(28 46 21 33-0403)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0536 EA End-Of-Line Resistor Harness, 10 k Ohms, 1/2 Watt, Two Required, One Each For Audible And Visible Output (Simplex 4081-9008)	26.75	12.06
28 46 21 33-0537 Siemens Fire Alarm (28 46 21 33)		
28 46 21 33-0538 Conventional Control Panels (28 46 21 33-0537)		
28 46 21 33-0539 SXL Batteries And Power Supplies (28 46 21 33-0538)		
28 46 21 33-0540 EA 6 Amp Notification Appliance Circuit Expander With Built-In Auxiliary Power Output (Siemens PAD-3)	756.04	48.25
28 46 21 33-0541 EA Main Board Only For PAD-3 (Siemens PAD-3-MB).....	613.79	48.25
28 46 21 33-0542 Digital Fire Communicators (28 46 21 33-0538)		
28 46 21 33-0543 EA Four Channel Digital Slave Fire Communicator (Siemens 5129).....	595.04	48.25
28 46 21 33-0544 Addressable Control Panels (28 46 21 33-0537)		
28 46 21 33-0545 Fireseeker Equipment (28 46 21 33-0544)		
28 46 21 33-0546 FS-250 System Panels (28 46 21 33-0545)		
28 46 21 33-0547 EA FS-250 Electronics Package Including One FS-250-CON And Two FS-NPE, Excludes Enclosure (Siemens FS-250-EKIT).....	2,009.92	482.51
Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer.		
28 46 21 33-0548 EA FS-250 Electronics Package Including One FS-250-CON, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-REL-EKIT).....	2,444.43	482.51
Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 21 33-0549 EA FS-250-SRX Releasing Electronics Package Including One FS-250-CON2-SRX, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-SRX-EKIT).....	1,509.13	386.00
Note: FS-250-CON2-SRX is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 21 33-0550 EA Electronics Package For Releasing Water Or Agent (Siemens FS-250-CON)	2,012.50	482.51
28 46 21 33-0551 FS-250 Optional Modules (28 46 21 33-0545)		
28 46 21 33-0552 EA Main Board Module (Siemens FS-MB2)	761.21	48.25
28 46 21 33-0553 EA Display Board Module (Siemens FS-DB2).....	586.22	24.13
28 46 21 33-0554 EA Device Loop Card (Siemens FS-DLC).....	482.77	24.13
28 46 21 33-0555 EA Releasing Module (Siemens FS-REL)	221.54	24.13
28 46 21 33-0556 EA Remote LCD Annunciator (Siemens FS-RD2).....	479.53	24.13
28 46 21 33-0557 EA Relay Processor Card (Siemens FS-RU2).....	418.11	24.13
28 46 21 33-0558 EA Relay Expander Board (Siemens FS-RE8).....	358.62	24.13
28 46 21 33-0559 EA Serial Annunciator Processor Card (Siemens FS-SAU2)	479.53	24.13
28 46 21 33-0560 EA 16 Output Annunciator Extender (Siemens FS-SAE16)	376.72	24.13
28 46 21 33-0561 EA Digital Alarm Communication Transmitter (Siemens FS-DACT).....	343.75	24.13
28 46 21 33-0562 EA Municipal Tie Module (Siemens FS-MT).....	293.96	24.13
28 46 21 33-0563 EA Configuration Tool Including Laptop To FS-250 Cable And Software (Siemens FS-CT2).....	282.08	
28 46 21 33-0564 EA Programming Cable Kit (Siemens CBL-UD).....	73.92	12.06
28 46 21 33-0565 EA Notification Appliance Circuit Power Expander Transformer (Siemens FS-NPE)	134.25	24.13
28 46 21 33-0566 EA Releasing Power Transformer (Siemens FS-RPT-A)	136.19	24.13
28 46 21 33-0567 EA Surface Mounted Box For Remote LCD Annunciator (Siemens FS-RD-SB)	149.82	19.30
28 46 21 33-0568 EA Cabinet Trim Kit (Siemens RD-CAB-TK)	233.63	12.06
28 46 21 33-0569 Firefinder Systems (28 46 21 33-0544)		
28 46 21 33-0570 XLS Basic Fire System Packages Without Backbox (28 46 21 33-0569)		
28 46 21 33-0571 EA 500 Point Firefinder Package Including Two DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-500-ID-SP).....	6,684.48	482.51
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 21 33-0572 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-ID-SP).....	5,946.06	482.51
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 21 33-0573 EA 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-INT-ID-SP)	5,946.06	482.51
Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 21 33-0574 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB2-BD And One OD-LP (Siemens XLS-250-CAB2-BD).....	9,616.16	482.51
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB2-BD is a two row inner and outer door set. OD-LP is an outer door clear plastic lens plate.		
28 46 21 33-0575 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB3-BD, One BCL, One ID-SP And One OD-LP (Siemens XLS-250-CAB3-BD).....	9,922.65	482.51
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB3-BD is a three row inner and outer door set. ID-SP is an inner door blank single plate. OD-LP is an outer door clear plastic lens plate.		

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0576	EA	250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-EP).....	5,871.70	482.51
		Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 33-0577	EA	250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-INT-EP).....	5,871.70	482.51
		Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 33-0578	EA	250 Point Firefinder Package Including One DLC, One PMI, One ZIC-8B, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC8B-EP).....	6,735.56	482.51
		Note: DLC is a device loop card. PMI is a person machine interface. ZIC-8B is an eight circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 33-0579		Firefinder - XLS Basic System Equipment (28 46 21 33-0569)		
28 46 21 33-0580	EA	Person Machine Interface With Central Processor (Siemens PMI).....	3,120.13	482.51
		Note: Includes inner door.		
28 46 21 33-0581	EA	Person Machine Interface With Central Processor, DE-2 And DPU (Siemens PMI-DPU-ENC).....	5,028.24	482.51
		Note: Includes inner door.		
28 46 21 33-0582	EA	Person Machine Interface With Multilingual Overlays And Central Processor (Siemens PMI-INT).....	3,120.13	482.51
		Note: Includes inner door.		
28 46 21 33-0583	EA	Two Slot Card Cage (Siemens CC-2).....	368.96	24.13
28 46 21 33-0584	EA	Five Slot Card Cage (Siemens CC-5).....	615.32	24.13
28 46 21 33-0585	EA	Four Circuit Zone Indicating Card (Siemens ZIC-4A).....	873.96	24.13
28 46 21 33-0586	EA	Eight Circuit Zone Indicating Card (Siemens ZIC-8B).....	912.11	24.13
28 46 21 33-0587	EA	Two Channel Adapter Card For ZIC-8B (Siemens ZIC-2C).....	296.54	24.13
28 46 21 33-0588	EA	Device Loop Card (Siemens DLC).....	1,033.67	24.13
		Note: Interfaces with up to 252 detectors and devices.		
28 46 21 33-0589	EA	Controllable Relay Card (Siemens CRC-6).....	590.75	24.13
		Note: Provides six programmable relays.		
28 46 21 33-0590	EA	12 Amp Power Supply Charger Module (Siemens PSC-12).....	2,203.37	24.13
28 46 21 33-0591	EA	Person Machine Interface With Central Processor And GPML-UK Software Upgrade Kit (Siemens GPML).....	3,982.69	482.51
		Note: Software kit provides interface with multiple FireFinder XLS and MXL systems.		
28 46 21 33-0592	EA	Network Interface Card (Siemens NIC-C).....	689.03	24.13
		Note: Provides HNET Or XNET communication between enclosures.		
28 46 21 33-0593	EA	12 Amp Power Supply Extender (Siemens PSX-12).....	1,834.81	24.13
		Note: Extends PSC-12 with an additional 24 volt DC.		
28 46 21 33-0594	EA	Power Termination Board (Siemens PTB).....	319.82	24.13
		Note: Used with systems requiring more than one PSX-12.		
28 46 21 33-0595	EA	Conventional Detector Card (Siemens CDC-4).....	664.46	24.13
28 46 21 33-0596	EA	Multi-Mode Network Fiber Optic Interface Module (Siemens D2300CPS).....	1,289.72	24.13
28 46 21 33-0597	EA	Single-Mode Network Fiber Optic Interface Module (Siemens D2325CPS).....	4,605.49	24.13
28 46 21 33-0598		Remote Lobby Enclosure (28 46 21 33-0569)		
28 46 21 33-0599	EA	14-1/2" x 18-1/2" x 5" Two Module Remote Enclosure (Siemens REMBOX2).....	895.85	96.51
		Note: Flush mounted. Includes clear lens plate on cover.		
28 46 21 33-0600	EA	24" x 18-1/2" x 5" Four Module Remote Enclosure (Siemens REMBOX4).....	1,141.56	96.51
		Note: Flush mounted. Includes clear lens plate on cover.		
28 46 21 33-0601	EA	Optional Mounting Plate For REMBOX2 (Siemens REMBOX2-MP).....	147.18	24.13
		Note: Required to mount up to four SIM-16 or OCM-16 modules.		
28 46 21 33-0602	EA	Optional Mounting Plate For REMBOX4 (Siemens REMBOX4-MP).....	159.47	24.13
		Note: Required to mount up to eight SIM-16 or OCM-16 modules.		
28 46 21 33-0603		Battery Enclosures (28 46 21 33-0569)		
28 46 21 33-0604	EA	Enclosure For 100 Amp Hours Batteries (Siemens CAB-BATT).....	575.14	96.51
28 46 21 33-0605		Graphic Annunciator Output Drivers And Inputs (28 46 21 33-0569)		
28 46 21 33-0606	EA	Output Control Module (Siemens OCM-16).....	430.39	24.13
28 46 21 33-0607	EA	Supervised Input Module (Siemens SIM-16).....	430.39	24.13
28 46 21 33-0608		Remote LCD Displays (28 46 21 33-0569)		
28 46 21 33-0609	EA	Remote LED/LCD System Status Display (Siemens SSD).....	1,006.67	72.38
		Note: No control or menu capability.		
28 46 21 33-0610	EA	Remote LED/LCD System Status Display, Buttons To Acknowledge Events, Silence Audible Circuits And Resetting (Siemens SSD-C).....	1,130.17	72.38
28 46 21 33-0611		Voice Equipment (28 46 21 33-0569)		
28 46 21 33-0612	EA	40W Zone Amplifier Card (Siemens ZAC-40).....	974.18	24.13
28 46 21 33-0613	EA	180W Zone Amplifier Module (Siemens ZAM-180).....	2,142.59	24.13
28 46 21 33-0614	EA	Live Voice Module (Siemens LVM).....	910.17	24.13
		Note: Includes a dynamic microphone with a push-to-talk switch and ready-to-page indicator light, as well as a small local speaker and volume control for monitoring audio signals.		
28 46 21 33-0615		MXL Series Equipment (28 46 21 33-0544)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0616	MXL Optional Equipment (28 46 21 33-0615)	
28 46 21 33-0617 EA Two Circuit Analog Loop Driver (Siemens ALD-21).....	1,061.24	48.25
28 46 21 33-0618 EA CXL/MXL Interface Module (Siemens CMI-300).....	2,686.38	24.13
28 46 21 33-0619 EA Four Relay Programmable Relay Module (Siemens CRM-4).....	472.42	24.13
28 46 21 33-0620 EA Two Circuit Controllable Signal/Releasing Module (Siemens CSM-4).....	567.47	24.13
28 46 21 33-0621 EA Remote Conventional Zone Module (Siemens CZM-1B6).....	222.19	24.13
28 46 21 33-0622 EA Short Circuit Line Isolator Module (Siemens Model LIM-1).....	142.65	24.13
28 46 21 33-0623 EA Four Circuit Conventional Zone Module (Siemens CZM-4).....	552.60	24.13
28 46 21 33-0624 EA 12" x 16" x 3" Enclosure For PAD-3 (Siemens EN-PAD).....	214.63	36.19
28 46 21 33-0625 EA Lexan Window For RCC (Siemens GENBOX-WD).....	142.70	19.30
28 46 21 33-0626 EA Input Driver Module (Siemens MID-16).....	367.02	24.13
28 46 21 33-0627 EA Programmable Output Driver Module (Siemens MOD-16).....	367.02	24.13
28 46 21 33-0628 EA MXL Output/Input Module (Siemens MOI-7).....	579.11	24.13
28 46 21 33-0629 EA Two Slot Network Option Module Card Cage (Siemens MOM-2).....	314.65	24.13
28 46 21 33-0630 EA Four Slot Network Option Module Card Cage (Siemens MOM-4).....	487.29	24.13
28 46 21 33-0631 EA 12 Amp, 220 VAC Power Supply For MXL (Siemens MPS-12/220).....	1,205.82	72.38
28 46 21 33-0632 EA 12 Amp, 240 VAC Power Supply For MXL (Siemens MPS-12/240).....	1,205.82	72.38
28 46 21 33-0633 EA Network Interface Module (Siemens NIM-1W).....	857.15	24.13
28 46 21 33-0634 EA U.L. Listed Parallel Printer (Siemens PAL-1).....	2,262.12	96.51
28 46 21 33-0635 EA Peripheral Interface Module, Model PIM-1 (Siemens 500-691324).....	260.98	24.13
28 46 21 33-0636 EA Surface Mounted Remote Command Center (Siemens RCC-1).....	2,688.20	482.51
28 46 21 33-0637 EA Enclosure And Door With Lens For RCC-1 (Siemens RCC-1DL).....	324.76	48.25
28 46 21 33-0638 EA Flush Mounted Remote Command Center (Siemens RCC-1F).....	2,688.20	482.51
28 46 21 33-0639 EA Enclosure And Door With Lens For RCC-1F (Siemens RCC-1FDL).....	332.52	48.25
28 46 21 33-0640 EA Remote Control Center With System Control Functions And Sequential Event Display (Siemens RCC-2).....	2,128.89	482.51
28 46 21 33-0641 EA MXL/MXLV Remote Annunciator/Keyboard With Enhanced Display (Siemens RCC-3).....	3,052.88	482.51
28 46 21 33-0642 EA RCC-2/RSE-1 Trim Ring (Siemens RCF-1).....	53.23	12.06
28 46 21 33-0643 EA Remote Diagnostics Module For MXL (Siemens RDM-MXL).....	3,458.83	48.25
28 46 21 33-0644 EA Remote Diagnostics Module For PC (Siemens RDM-PC).....	7,336.49	48.25
28 46 21 33-0645 EA Releasing End Of Line Module (Siemens REL-EOL).....	118.73	24.13
28 46 21 33-0646 EA 36 Zone Tabular Graphic Annunciator With Restart System Key (Siemens RSA-MBSC).....	2,215.42	48.25
28 46 21 33-0647 EA 36 Zone Tabular Graphic Annunciator (Siemens RSA-MBTL).....	2,116.49	48.25
28 46 21 33-0648 EA 8-3/8" x 6-1/4" Remote Control Enclosure (Siemens RSE-1).....	1,163.55	96.51
28 46 21 33-0649	Complete MXL And MXLV System Packages Without Enclosure (28 46 21 33-0615)	
28 46 21 33-0650 EA MXL System Electronics Package Including One MMB-3, One Display/Control Keyboard, One MDL-1, One MKB-2, One Mps-6, One MOM-2, One ALD-21 And One PIM-1 (Siemens MXL-SS-EP).....	8,556.39	482.51
Note: MMB-3 is a MXL/MXLV main control board. MDL-1 is a clear lens. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. MOM-2 is a two slot network option module card cage. ALD-21 is a two circuit analog loop driver. PIM-1 is a peripheral interface module.		
28 46 21 33-0651 EA MXL Voice System Electronics Package Including One MMB-3, One MKB-2, One MPS-6, One ACM-1, One TBM-2, One MMM-1, One OMM-2, One ZAC-30, One OCC-1, One MHD-5, One VSM-1 And Four VSB-1 (Siemens MXLV-SS-EP).....	10,979.84	482.51
Note: MMB-3 is a MXL/MXLV main control board. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. ACM-1 is an audio control module. TBM-2 is a voice terminal module. MMM-1 is a master microphone module. OMM-2 is a two half width slot card cage. ZAC-30 is a MXLV zone amplifier card. OCC-1 is a MXLV output control card. MHD-5 is a deadfront panel for MSE-2 backbox. VSM-1 is an eight switch module. VSB-1 is a module blank with overlay.		
28 46 21 33-0652 EA MXLV Demonstration Panel (Siemens MXLV DEMO).....	22,297.93	482.51
28 46 21 33-0653	MXL Basic System (28 46 21 33-0615)	
28 46 21 33-0654 EA MXL/MXLV Main Control Board (Siemens MMB-3).....	5,507.02	482.51
28 46 21 33-0655 EA MXL System Electronics Package Including One MMB-3, One DE-2 And One DPU (Siemens MMB-DPU-ENCL).....	6,954.76	482.51
Note: MMB-3 is a MXL/MXLV main control board. DE-2 is an enclosure for document storage. DPU is a handheld device programming and testing unit.		
28 46 21 33-0656 EA MXL/MXLV Display/Keyboard Module With Hinged Frame (Siemens MKB-2).....	1,872.72	48.25
28 46 21 33-0657 EA MXL/MXLV Keyboard With Enhanced Display With Hinged Frame (Siemens MKB-5).....	2,339.57	48.25
28 46 21 33-0658 EA 6 Amp Power Supply For MXL (Siemens MPS-6).....	843.08	72.38
28 46 21 33-0659 EA 220/240 VAC Adapter Cable (Siemens CIA-12).....	66.16	12.06
28 46 21 33-0660	MXL/MXLR System Expansion Accessories (28 46 21 33-0615)	
28 46 21 33-0661 EA MXL Remote Power Supply Module (Siemens PSR-1).....	1,026.07	72.38
28 46 21 33-0662 EA Style 4 Communication Module (Siemens NET-4).....	215.72	24.13
28 46 21 33-0663 EA Style 7 Communication Module (Siemens NET-7).....	381.90	24.13
28 46 21 33-0664 EA MXL/MXL-IQ/MXLV Intelligent Control Point, B6 Chip (Siemens ICP-B6).....	234.47	24.13
28 46 21 33-0665	Peripheral Devices (28 46 21 33-0544)	
28 46 21 33-0666	Thermal Detectors (28 46 21 33-0665)	
28 46 21 33-0667 EA Rate Of Rise And 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135R).....	104.06	36.19
28 46 21 33-0668 EA Rate Of Rise And 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200R).....	104.06	36.19
28 46 21 33-0669 EA 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135F).....	104.06	36.19
28 46 21 33-0670 EA 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200F).....	104.06	36.19
28 46 21 33-0671 EA Weatherproof 135 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-135WP).....	152.56	36.19
28 46 21 33-0672 EA Weatherproof 200 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-200WP).....	152.56	36.19
28 46 21 33-0673 EA Explosion Proof 190 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-190EP).....	348.48	36.19

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0674 Beam Smoke Detector (28 46 21 33-0665)		
28 46 21 33-0675 EA Linear Beam Smoke Detector (Siemens PBA-1191)	1,591.29	36.19
28 46 21 33-0676 EA Base For Linear Beam Smoke Detector (Siemens PBB-1191)	184.49	12.06
28 46 21 33-0677 EA 20cm x 20cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1192)	186.43	12.06
28 46 21 33-0678 EA 10cm x 10cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1193)	98.49	12.06
28 46 21 33-0679 Bases For Detectors (28 46 21 33-0665)		
28 46 21 33-0680 EA Detector Base (Siemens DB-11)	33.83	12.06
28 46 21 33-0681 EA Universal Base (Siemens DB-3S)	31.89	12.06
28 46 21 33-0682 Manual Stations (28 46 21 33-0665)		
28 46 21 33-0683 EA Weatherproof Metal Manual Pull Station With Key (Siemens MSM-K-WP)	212.44	28.95
28 46 21 33-0684 Addressable Devices (28 46 21 33-0544)		
28 46 21 33-0685 Intelligent Detectors And Devices For Firefinder XLS And FS-250 (28 46 21 33-0684)		
28 46 21 33-0686 EA Addressable Fireprint Fire Detector (Siemens HFP-11)	183.60	36.19
28 46 21 33-0687 EA Addressable Thermal Fire Detector (Siemens HFPT-11)	160.96	36.19
28 46 21 33-0688 EA Relay Base For H-Series Intelligent Detectors (Siemens DB-HR)	134.45	36.19
28 46 21 33-0689 EA Ceiling Mounted Remote Alarm Indicator (Siemens RL-HC)	96.30	36.19
28 46 21 33-0690 EA Wall Mounted Remote Alarm Indicator (Siemens RL-HW)	96.30	36.19
28 46 21 33-0691 EA Addressable Single Action Manual Pull Station (Siemens HMS-S)	184.68	24.13
28 46 21 33-0692 EA Addressable Double Action Manual Pull Station (Siemens HMS-D)	176.92	24.13
28 46 21 33-0693 EA Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-S)	142.65	24.13
28 46 21 33-0694 EA Dual Input Intelligent Initiating Devices Interface Module (Siemens HTRI-D)	171.75	24.13
28 46 21 33-0695 EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens HTRI-R)	171.75	24.13
28 46 21 33-0696 EA Mini Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-M)	132.95	24.13
28 46 21 33-0697 EA Line Isolator Module (Siemens HLIM)	136.83	24.13
28 46 21 33-0698 EA Remote Convention Zone Module (Siemens HZM)	196.32	24.13
28 46 21 33-0699 EA Intelligent Control Point Module (Siemens HCP)	245.46	24.13
28 46 21 33-0700 EA Handheld Programming And Testing Unit (Siemens DPU)	1,032.83	
28 46 21 33-0701 EA DPU Carrying Case (Siemens DPU-C1)	161.90	
28 46 21 33-0702 EA Label Printer And Carrying Case (Siemens DPU-PRT)	1,770.79	24.13
28 46 21 33-0703 Air Duct Housings And Detectors (28 46 21 33-0684)		
28 46 21 33-0704 EA Air-Duct Housing (Siemens AD2-P)	198.31	19.30
28 46 21 33-0705 EA Air-Duct Housing With Relay (Siemens AD2-XHR)	222.88	19.30
28 46 21 33-0706 EA Weatherproof Enclosure For Duct Housing (Siemens WP-2000)	183.39	24.13
28 46 21 33-0707 EA 6" To 1' Duct Sampling Tube (Siemens ST-10)	27.41	7.23
28 46 21 33-0708 EA >1' To 3' Duct Sampling Tube (Siemens ST-25)	34.17	9.65
28 46 21 33-0709 EA >3' To 5' Duct Sampling Tube (Siemens ST-50)	42.88	12.06
28 46 21 33-0710 EA >5' To 10' Duct Sampling Tube (Siemens ST-100)	50.29	14.48
28 46 21 33-0711 Intelligent Initiating Devices For MXL, MXL-LQ And MXLV (28 46 21 33-0684)		
28 46 21 33-0712 EA Addressable Fireprint Fire Detector (Siemens FP-11)	190.71	36.19
28 46 21 33-0713 EA Addressable Thermal Fire Detector (Siemens FPT-11)	166.78	36.19
28 46 21 33-0714 EA Intelligent Ionization Smoke Detector (Siemens ILI-1)	208.81	36.19
28 46 21 33-0715 EA Addressable Single Action Manual Pull Station (Siemens MSI-10B)	180.16	24.13
28 46 21 33-0716 EA Addressable Double Action Manual Pull Station (Siemens MSI-20B)	197.61	24.13
28 46 21 33-0717 EA Single Input Intelligent Initiating Devices Interface Module (Siemens TRI-S)	182.10	24.13
28 46 21 33-0718 EA Dual Input Intelligent Initiating Devices Interface Module (Siemens TRI-D)	200.20	24.13
28 46 21 33-0719 EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens TRI-R)	200.20	24.13
28 46 21 33-0720 Detector Universal Bases (28 46 21 33-0684)		
28 46 21 33-0721 EA Detector Base With Relay (Siemens DB-X11RS)	85.56	12.06
28 46 21 33-0722 EA PE-11 To DB-3 Base Adapter (Siemens DB-ADPT)	46.76	12.06
28 46 21 33-0723 EA Locking Kit (Siemens LK-11)	10.17	
28 46 21 33-0724 EA Detector Base With Relay (Siemens DB-X3RS)	85.56	12.06
28 46 21 33-0725 EA Audible Base For Addressable Fireprint Fire Detector (Siemens ADBX-11)	98.49	12.06
28 46 21 33-0726 EA Retrofit Adapter Box For Audible Bases Ionization Detector Air Duct (Siemens ADB-BOX)	44.82	12.06
28 46 21 33-0727 EA Flush Trim Ring For Bases (Siemens RA-ADB)	22.24	7.23
28 46 21 33-0728 EA Seal For DB-11 (Siemens DB11-SEAL)	11.72	
28 46 21 33-0729 EA Gasket For DB-11 (Siemens DB-SEAL)	12.58	
28 46 21 33-0730 EA Detector Guard Housing (Siemens DGH-11)	122.41	12.06
28 46 21 33-0731 EA Small Detector Base (Siemens DB-11E)	36.42	12.06
28 46 21 33-0732 EA Audible Base For Series 3 (Siemens ADBI-60A)	110.13	12.06
28 46 21 33-0733 EA Base Plug (Siemens DB-11-DP)	10.14	
28 46 21 33-0734 Air Duct Smoke Detectors (28 46 21 33-0684)		
28 46 21 33-0735 EA Intelligent Remote Duct Relay Module (Siemens DA-X3SR)	100.62	24.13
28 46 21 33-0736 EA Weatherproof Enclosure For Duct Housing (Siemens EAD-3)	466.60	24.13



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0737				Notification Devices <small>(28 46 21 33-0544)</small>		
28 46 21 33-0738				Synchronization Control Devices <small>(28 46 21 33-0737)</small>		
28 46 21 33-0739	EA			Dual Synchronization Control Module (Siemens DSC)	142.65	24.13
28 46 21 33-0740				Stand Alone Strobes <small>(28 46 21 33-0737)</small>		
28 46 21 33-0741	EA			Wall Mounted Multi-Candela Strobe (Siemens ZR-MC-R)	127.34	36.19
28 46 21 33-0742	EA			Wall Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-R)	137.04	36.19
28 46 21 33-0743	EA			Ceiling Mounted Multi-Candela Strobe (Siemens ZR-MC-CR)	127.34	36.19
28 46 21 33-0744	EA			Ceiling Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-CR)	137.04	36.19
28 46 21 33-0745	EA			Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CW)	137.04	36.19
28 46 21 33-0746	EA			Ceiling Mounted Multi-Candela Strobe (Siemens ST-MC-CW)	127.34	36.19
28 46 21 33-0747	EA			Retrofit Plate Multi-Candela Strobe (Siemens ST-MC-RETRO-R)	144.15	36.19
28 46 21 33-0748	EA			Weatherproof Ceiling Mounted Strobe (Siemens ST-75-CR-WP)	138.98	36.19
28 46 21 33-0749	EA			Weatherproof Wall Mounted Strobe (Siemens ST-75-R-WP)	138.98	36.19
28 46 21 33-0750	EA			Weatherproof Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CR-WP)	147.39	36.19
28 46 21 33-0751	EA			Weatherproof Wall Mounted High Multi-Candela Strobe (Siemens ST-HMC-R-WP)	147.39	36.19
28 46 21 33-0752				Horns And Strobes <small>(28 46 21 33-0737)</small>		
28 46 21 33-0753	EA			Wall Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-R)	165.49	36.19
28 46 21 33-0754	EA			Wall Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-R)	173.90	36.19
28 46 21 33-0755	EA			Wall Mounted Horn (Siemens SE-R)	104.06	36.19
28 46 21 33-0756	EA			Ceiling Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-CR)	165.49	36.19
28 46 21 33-0757	EA			Ceiling Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-CR)	173.90	36.19
28 46 21 33-0758	EA			Ceiling Mounted Horn (Siemens SEC-R)	107.94	36.19
28 46 21 33-0759	EA			Wall Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-R)	165.49	36.19
28 46 21 33-0760	EA			Wall Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-R)	173.90	36.19
28 46 21 33-0761	EA			Wall Mounted Low Profile Horn (Siemens SEF-R)	104.06	36.19
28 46 21 33-0762	EA			Ceiling Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-CW)	165.49	36.19
28 46 21 33-0763	EA			Ceiling Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-CW)	173.90	36.19
28 46 21 33-0764	EA			Ceiling Mounted Low Profile Horn (Siemens SEF-CR)	107.94	36.19
28 46 21 33-0765	EA			Mini Horn (Siemens MH-R)	89.84	36.19
28 46 21 33-0766	EA			Indoor/Outdoor Multi Tone Horn (Siemens MTH-R)	109.24	36.19
28 46 21 33-0767	EA			Indoor/Outdoor Multi Tone, Multi-Candela Horn/Strobe (Siemens MTH-MC-R)	157.08	36.19
28 46 21 33-0768	EA			Industrial Tri-Tone Horn (Siemens ASR)	411.84	36.19
28 46 21 33-0769	EA			Wall Mounted Horn (Siemens HS-R)	109.24	36.19
28 46 21 33-0770	EA			Wall Mounted Multi-Candela Horn/Strobe (Siemens HS-MC-R)	157.73	36.19
28 46 21 33-0771	EA			Wall Mounted High Multi-Candela Horn/Strobe (Siemens HS-HMC-R)	168.08	36.19
28 46 21 33-0772	EA			6" Motor Bell (Siemens MBDC-6)	122.17	36.19
28 46 21 33-0773	EA			10" Motor Bell (Siemens MBDC-10)	131.87	36.19
28 46 21 33-0774				Mounting Accessories <small>(28 46 21 33-0737)</small>		
28 46 21 33-0775	EA			Concealed Conduit Adapter Plate (Siemens APS-R)	31.89	12.06
28 46 21 33-0776	EA			4" x 1-1/2" Surface Mounted Back Box (Siemens BBS-R)	31.89	12.06
28 46 21 33-0777	EA			4" x 2-1/8" Surface Mounted Back Box (Siemens DBBS-R)	32.54	12.06
28 46 21 33-0778	EA			Red Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX)	48.05	12.06
28 46 21 33-0779	EA			White Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX-W)	39.65	12.06
28 46 21 33-0780	EA			Surface Mounted Speaker Backbox (Siemens SBBS-R)	41.59	12.06
28 46 21 33-0781	EA			Surface Mounted Speaker Backbox (Siemens SBL2S-R)	44.17	12.06
28 46 21 33-0782	EA			Square Semi-Flush Extension Ring (Siemens SERS-R)	36.42	12.06
28 46 21 33-0783	EA			Semi-Flush Plate (Siemens SFPS-R)	31.24	12.06
28 46 21 33-0784	EA			Square Surface Backbox (Siemens SHBBS-R)	36.42	12.06
28 46 21 33-0785	EA			Horn Adapter Plate (Siemens SHMPS-R)	35.12	12.06
28 46 21 33-0786	EA			Ceiling Speaker Extension Ring (Siemens SPEXT-R)	31.89	12.06
28 46 21 33-0787	EA			Wall Mounted Surface Mounted Speaker Backbox (Siemens SPSB-R)	39.65	12.06
28 46 21 33-0788	EA			Wall Mounted Surface Mounted Speaker/Strobe Backbox (Siemens SPSSB-R)	41.59	12.06
28 46 21 33-0789	EA			Weatherproof Speaker Backbox (Siemens WBBS-R)	40.29	12.06
28 46 21 33-0790	EA			Weatherproof Speaker Backbox With 3/4" Knockout (Siemens WBBS-R-3/4T-3/4B)	44.17	12.06
28 46 21 33-0791	EA			Weatherproof Flush Plate (Siemens WFPAS-R)	44.17	12.06
28 46 21 33-0792	EA			Weatherproof Horn Flush Plate (Siemens WFPS-R)	44.17	12.06
28 46 21 33-0793	EA			Weatherproof Horn Backbox (Siemens WPBBS-R)	41.59	12.06
28 46 21 33-0794	EA			Weatherproof Strobe Backbox (Siemens WPSBBS-R)	41.59	12.06
28 46 21 33-0795	EA			Surface Mounted Weatherproof Backbox Kit (Siemens WPS-KIT)	31.89	12.06
28 46 21 33-0796	EA			Z Series Backbox (Siemens ZBB-R)	35.12	12.06
28 46 21 33-0797				Door Holders <small>(28 46 21 33-0737)</small>		
28 46 21 33-0798	EA			120 VAC Concealed Wiring Fire Door Holder (Siemens SDH-2A)	239.20	36.19
28 46 21 33-0799	EA			24 VDC Concealed Wiring Fire Door Holder (Siemens SDH-2D)	239.20	36.19
28 46 21 33-0800				Voice Equipment <small>(28 46 21 33-0544)</small>		
28 46 21 33-0801				Voicecom <small>(28 46 21 33-0800)</small>		

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0802 EA Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone And Enclosure With Deadfront And Space For Five Modules (Siemens VOICECOM)	3,625.77	482.51
28 46 21 33-0803 EA Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, Two 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone, Enclosure With Deadfront And Space For 11 Modules, Auxiliary Power Supply, Four PS-AUX Strobe Zone Cables And One AM-25-50 Speaker Zone Cables (Siemens VOICECOM-L)	5,597.90	482.51
28 46 21 33-0804 Johnson Controls Fire Alarm <small>(28 46 21 33)</small>		
28 46 21 33-0805 EA Intelligent Addressable ION Detector; With FlashScan. (Johnson Controls, Inc. #1951J)	147.77	36.19
28 46 21 33-0806 EA Intelligent Addressable Photo Detector; With FlashScan. (Johnson Controls, Inc. #2951J)	146.37	36.19
28 46 21 33-0807 EA Intelligent Addressable Photo/Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TJ)	178.48	36.19
28 46 21 33-0808 EA Acclimate™ Intelligent Photo Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TMJ)	178.03	36.19
28 46 21 33-0809 EA 411UD, 4 Channel Dual. (Johnson Controls, Inc. #411UD)	465.15	48.25
28 46 21 33-0810 EA Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951HJ)	140.61	36.19
28 46 21 33-0811 EA Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951J)	127.32	36.19
28 46 21 33-0812 EA Intelligent Addressable Rate-of-Rise Thermal Detector; With FlashScan. (Johnson Controls, Inc. #5951RJ)	124.51	36.19
28 46 21 33-0813 EA Intelligent Addressable Laser Detector; Low Profile, Use With IFC Series Panels Only. (Johnson Controls, Inc. #7351J)	341.08	36.19
28 46 21 33-0814 EA 100 Watt Audio Amplifier @ 70.7 VRMS With Built-in Tone Generator, 120 VAC. (Johnson Controls, Inc. #AA-100)	1,609.65	72.38
28 46 21 33-0815 EA AUDIO Amplifier, 100 Watt, 230 VAC (Johnson Controls, Inc. #AA-100E)	1,560.66	72.38
28 46 21 33-0816 EA 120 Watt Audio Amplifier @ 25 VRMS With Built-in Tone Generator, 120 VAC (Johnson Controls, Inc. #AA-120)	1,587.09	72.38
28 46 21 33-0817 EA AUDIO Amplifier, 120 Watt, 230 VAC (Johnson Controls, Inc. #AA-120E)	1,521.11	72.38
28 46 21 33-0818 EA 30 Watt Audio Amplifier @ 25 VRMS, 120 VAC (Johnson Controls, Inc. #AA-30)	758.78	72.38
28 46 21 33-0819 EA AUDIO Amplifier, 30 Watt, 230 VAC (Johnson Controls, Inc. #AA-30E)	758.78	72.38
28 46 21 33-0820 EA Annunciator Control Module With; 16 Red Alarm LED's, 16 Yellow Trouble LED's, And 16 Control Switches, On-line, System Trouble Led, And Local Sounder, Local Acknowledge And Lamp Test Switch, Supports 1, 2 Or 3 AEM-16AT Expander Modules. (Johnson Controls, Inc. #ACM-16AT)	736.43	24.13
28 46 21 33-0821 EA IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED, Trouble LED And Switch Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) By Point To Be Red, Green Or Yellow And The Trouble LED Is Always Yellow. Expandable With One, Two Or Three AEM-24AT's. (Johnson Controls, Inc. #ACM-24AT)	765.52	24.13
28 46 21 33-0822 EA Annunciator Control Module; Includes 32 Red Alarm LED's, System Trouble LED And On-line LED, Local Acknowledge, Lamp Test Switch, And Local Piezo Sounder, Supports One AEM-32A Expander Module. (Johnson Controls, Inc. #ACM-32A)	565.38	24.13
28 46 21 33-0823 EA IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) In Groups Of 24 To Be Red, Green Or Yellow. Expandable To 96 Points With One AEM-48A. (Johnson Controls, Inc. #ACM-48A)	565.38	24.13
28 46 21 33-0824 EA Annunciator, Relay, Form C. (Johnson Controls, Inc. #ACM-8R)	402.24	24.13
28 46 21 33-0825 EA Charger Power Supply - 6 Or 10 Amps; Mounts In CAB-PS1, CAB-3/4, EQ Cabx, BB-25, Or CHS-PS1; Comes With The PK-PPS Programming Utility. Windows® PC And USB Cable Required For Programming. (Johnson Controls, Inc. #ACPS-610)	1,283.03	48.25
28 46 21 33-0826 EA Annunciator Expander Module With: 16 Red Alarm LED's, 16 Yellow Trouble LED's, 16 Control Switches, Cable For Connection To The ACM-16AT Master. (Johnson Controls, Inc. #AEM-16AT)	565.38	24.13
28 46 21 33-0827 EA Annunciator Expander Module; 24 Alarm And Trouble LEDs, Expands The ACM-24AT To 48, 72 Or 96 Points. (Johnson Controls, Inc. #AEM-24AT)	587.24	24.13
28 46 21 33-0828 EA Annunciator Expander Module With: 32 Red Alarm LED's, Cable For Connection To The ACM-32A Master. (Johnson Controls, Inc. #AEM-32A)	508.02	24.13
28 46 21 33-0829 EA Annunciator Expander Module; 48 Alarm LEDs, Expands The ACM-48A To 96 Points. (Johnson Controls, Inc. #AEM-48A)	508.02	24.13
28 46 21 33-0830 EA Back Box, Flush Or Surface Mount; Requires A Door And Telephone Chassis. (Johnson Controls, Inc. #AFAWS-BX)	93.85	21.71
28 46 21 33-0831 EA Receiver, Multimode Fiber. (Johnson Controls, Inc. #AFL-RM)	782.72	48.25
28 46 21 33-0832 EA Receiver, Singlemode Fiber. (Johnson Controls, Inc. #AFL-RS)	1,678.53	48.25
28 46 21 33-0833 EA Transmit, Multimode Fiber. (Johnson Controls, Inc. #AFL-TM)	782.72	48.25
28 46 21 33-0834 EA Transmit, Singlemode Fiber. (Johnson Controls, Inc. #AFL-TS)	1,678.53	48.25
28 46 21 33-0835 EA Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B110LP)	35.99	12.06
28 46 21 33-0836 EA Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224BI)	87.03	12.06
28 46 21 33-0837 EA Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224RB)	82.41	12.06
28 46 21 33-0838 EA Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B401)	37.96	12.06
28 46 21 33-0839 EA Intelligent Detector Base, Without Flange. (Johnson Controls, Inc. #B501J)	34.69	12.06
28 46 21 33-0840 EA Battery Cabinet, Lockable. (Johnson Controls, Inc. #BB-100)	577.10	48.25
28 46 21 33-0841 EA Projected Beam Smoke Detector, Single-ended Reflected Type, Includes Trouble Relay, Transmitter/Receiver In One Unit. (Johnson Controls, Inc. #Beam1224)	1,331.27	72.38
28 46 21 33-0842 EA Same As Beam1224 With Built-in Sensitivity Test Filter. (Johnson Controls, Inc. #Beam1224S)	1,405.43	72.38
28 46 21 33-0843 EA Mounting Kit, Long RG, Beam. (Johnson Controls, Inc. #BeamLRK)	157.62	12.06
28 46 21 33-0844 EA Mounting Kit, Beam Detect. (Johnson Controls, Inc. #BeamMMK)	108.18	12.06
28 46 21 33-0845 EA Digital Audio Amplifier, 50 Watt, 25 VRMS (Johnson Controls, Inc. #DAA-5025)	1,332.36	72.38
28 46 21 33-0846 EA Digital Audio Amplifier, 50 Watt, 25 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5025F)	1,232.39	72.38
28 46 21 33-0847 EA Digital Audio Amplifier, 50 Watt, 25 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5025SF)	1,232.39	72.38
28 46 21 33-0848 EA Digital Audio Amplifier, 50 Watt, 70 VRMS (Johnson Controls, Inc. #DAA-5070)	1,440.34	72.38
28 46 21 33-0849 EA Amplifier, Digital Audio. (Johnson Controls, Inc. #DAA-5070E)	1,331.27	72.38
28 46 21 33-0850 EA Digital Audio Amplifier, 50 Watt, 70 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5070F)	1,331.27	72.38
28 46 21 33-0851 EA Digital Audio Amplifier, 50 Watt, 70 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5070SF)	1,331.27	72.38
28 46 21 33-0852 EA Digital Audio Amplifier, 75 Watt, 25 VRMS (Johnson Controls, Inc. #DAA-7525)	1,585.52	72.38
28 46 21 33-0853 EA Digital Audio Amplifier, 75 Watt, 25 VRMS, Multi Fiber (Johnson Controls, Inc. #DAA-7525F)	1,585.52	72.38
28 46 21 33-0854 EA Digital Audio Amplifier, 75 Watt, 25 VRMS, Single Fiber (Johnson Controls, Inc. #DAA-7525SF)	1,585.52	72.38
28 46 21 33-0855 EA Innovairflex Intelligent. (Johnson Controls, Inc. #DNR)	172.90	24.13
28 46 21 33-0856 EA Innovairflex Duct Detect. (Johnson Controls, Inc. #DNRW)	259.36	24.13
28 46 21 33-0857 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1)	27.18	9.65
28 46 21 33-0858 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1.5)	29.21	9.65



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0859	EA			Innovairflex Sample Tube. (Johnson Controls, Inc. #DST10).....	66.98	14.48
28 46 21 33-0860	EA			Innovairflex Sample Tube. (Johnson Controls, Inc. #DST3).....	33.77	9.65
28 46 21 33-0861	EA			Innovairflex Sample Tube. (Johnson Controls, Inc. #DST5).....	41.77	12.06
28 46 21 33-0862	EA			Digital Voice Command, Analog Output. (Johnson Controls, Inc. #DVC-AO).....	260.82	24.13
28 46 21 33-0863	EA			Digital Voice Command, Keypad. (Johnson Controls, Inc. #DVC-KD).....	437.64	48.25
28 46 21 33-0864	EA			Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMPS-24; B Size, Black. (Johnson Controls, Inc. #EQBB-B4).....	379.25	72.38
28 46 21 33-0865	EA			Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMPS-24; C Size, Black. (Johnson Controls, Inc. #EQBB-C4).....	512.40	72.38
28 46 21 33-0866	EA			Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMPS-24; D Size, Black. (Johnson Controls, Inc. #EQBB-D4).....	556.89	72.38
28 46 21 33-0867	EA			Equipment Cabinet Door; B Size Black. (Johnson Controls, Inc. #EQDR-B4).....	280.62	9.65
28 46 21 33-0868	EA			Equipment Cabinet Door; C Size Black. (Johnson Controls, Inc. #EQDR-C4).....	420.72	9.65
28 46 21 33-0869	EA			Equipment Cabinet Door; D Size Black. (Johnson Controls, Inc. #EQDR-D4).....	461.93	9.65
28 46 21 33-0870	EA			6.0 Amps, 120 VAC Remote Charger Power Supply. Includes Main Printed Circuit Board, Transformers And Installation Instructions (Johnson Controls, Inc. #FCPS-24S6).....	767.27	96.51
28 46 21 33-0871	EA			8.0 Amps, 120 VAC Remote Charger Power Supply. Includes Main Printed Circuit Board, Transformers And Installation Instructions (Johnson Controls, Inc. #FCPS-24S8).....	772.08	96.51
28 46 21 33-0872	EA			80 Character Display Annunciator. "Security Keypad" Mechanical Design. For Use With The IFC-320, JCPU2-640, JCPU-640 And IFC-400/300 (Rev 3.62+) Only. (Johnson Controls, Inc. #FDU-80G).....	723.19	72.38
28 46 21 33-0873	EA			Fireman's Telephone Hand Set. (Johnson Controls, Inc. #FHS).....	132.90	12.06
28 46 21 33-0874	EA			Fire Phone Storage Cabinet, Recessed, Holds 6 Phones. (Johnson Controls, Inc. #FHSC-R).....	371.58	24.13
28 46 21 33-0875	EA			Door Holder, Magnetic, Floor. (Johnson Controls, Inc. #FM980).....	207.75	36.19
28 46 21 33-0876	EA			Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM996).....	172.69	36.19
28 46 21 33-0877	EA			Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM998).....	180.66	36.19
28 46 21 33-0878	EA			Addressable Beam Detector. (Johnson Controls, Inc. #FSB-200).....	1,344.01	48.25
28 46 21 33-0879	EA			Addressable Beam Detector With Remote Test Feature. (Johnson Controls, Inc. #FSB-200S).....	1,636.64	48.25
28 46 21 33-0880	EA			Intelligent Addressable HARSH (Hostile Area Smoke Head) Detector; Photo, Requires B501B-FTXJ Base. (Johnson Controls, Inc. #FTX-P2J).....	499.06	24.13
28 46 21 33-0881	EA			IFC-320 Intelligent Fire Alarm Panel; Single Printed Circuit Board With One SLC Loop (318 Devices), Back-lit, 80 Character Display, System And Programming Keypad And 6.0 Amp Power Supply, 120 VAC, Includes Door, Dress Panel And Back Box, Black (Johnson Controls, Inc. #IFC-320).....	3,503.27	386.00
28 46 21 33-0882	EA			Upgrade Kit, ORG BLD, 640. (Johnson Controls, Inc. #IFC-640UG).....	1,650.85	48.25
28 46 21 33-0883	EA			Workstation Only Workstation GUI Software And Hardware Package. (Johnson Controls, Inc. #IFI).....	22,091.31	579.01
28 46 21 33-0884	EA			Workstation With NFN Fiber PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-F) Fiber Version. (Johnson Controls, Inc. #IFI-F).....	24,068.84	579.01
28 46 21 33-0885	EA			Workstation With Echelon Wire PC Card Workstation GUI Software And Hardware Package For Building Systems Integration, WSSUP Workstation Supervisor. Includes Echelon® Gateway (ECH-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-IP).....	27,035.13	579.01
28 46 21 33-0886	EA			Workstation With NFN Wire PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-W).....	24,068.84	579.01
28 46 21 33-0887	EA			Annunciator Flush Box. Mounts One Annunciator Module. (Johnson Controls, Inc. #JABF-1B).....	165.40	14.48
28 46 21 33-0888	EA			Annunciator Flush Box. One Module. Attractive Glass Door And Key Lock. (Johnson Controls, Inc. #JABF-1DB).....	185.18	14.48
28 46 21 33-0889	EA			Annunciator Flush Box. Mounts Two Annunciator Modules. (Johnson Controls, Inc. #JABF-2B).....	201.00	14.48
28 46 21 33-0890	EA			Annunciator Flush Box. Mounts Four Annunciator Modules. (Johnson Controls, Inc. #JABF-4B).....	369.09	14.48
28 46 21 33-0891	EA			Annunciator Surface Box. Deep With Trim Cover. (Johnson Controls, Inc. #JABS-1TB).....	122.13	9.65
28 46 21 33-0892	EA			Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Black. (Johnson Controls, Inc. #JABS-2D).....	194.04	21.71
28 46 21 33-0893	EA			Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Red. (Johnson Controls, Inc. #JABS-2DR).....	205.38	21.71
28 46 21 33-0894	EA			Surface (or Semi-flush) Mount INA, ACS, Or SCS Backbox, Black. (Johnson Controls, Inc. #JABS-4D).....	367.73	21.71
28 46 21 33-0895	EA			Audio Command Door For CAB-B4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-B4).....	360.43	9.65
28 46 21 33-0896	EA			Audio Command Door For CAB-C4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-C4).....	484.03	9.65
28 46 21 33-0897	EA			Audio Command Door For CAB-D4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-D4).....	597.74	9.65
28 46 21 33-0898	EA			Addressable Pull Station; With FlashScan. (Johnson Controls, Inc. #JBG-12LX).....	179.43	24.13
28 46 21 33-0899	EA			Battery Dress Panel For CAB-4 Series; For Use With The JCPU2-3030, JCPU2-640, JNCA-2, And DVC Systems. (Johnson Controls, Inc. #JBP2-4).....	82.89	9.65
28 46 21 33-0900	EA			JCPU2-3030 CPU With 640-character Display; Required For Single Panel (One CPU2-3030) Systems. Includes: CPU, 640-Character Backlit LCD Display, QWERTY Programming And Control Keypad, Installation, Programming And Operating Manuals. Supports One To 10 Signaling Line Circuits (Up To Five LCM-320 And Five LEM-320). Order One Per System Or As Necessary (Up To 103 Network Nodes) For A Networked System. Requires Top Row Of A Cabinet. (Johnson Controls, Inc. #JCPU2-3030D).....	3,495.79	386.00
28 46 21 33-0901	EA			Central Processing Unit For The JCPU2-640 With Integral 120 VAC Power Supply, Includes CHS2-M2 Chassis (Johnson Controls, Inc. #JCPU2-640).....	2,529.45	289.51
28 46 21 33-0902	EA			Main Board, CPU, IFC3030, DI. (Johnson Controls, Inc. #JCPU-3030D).....	4,477.44	386.00
28 46 21 33-0903	EA			Main Board, CPU, IFC640. (Johnson Controls, Inc. #JCPU-640).....	4,257.29	289.51
28 46 21 33-0904	EA			Main Board, CPU, IFC640, EUR. (Johnson Controls, Inc. #JCPU-640E).....	3,110.53	289.51
28 46 21 33-0905	EA			Digital Voice Command, Extended Memory. (Johnson Controls, Inc. #JDVC-EM).....	1,637.90	36.19
28 46 21 33-0906	EA			Digital Voice Command, Extended Memory, Multi-Fiber. (Johnson Controls, Inc. #JDVC-EMF).....	1,654.40	36.19
28 46 21 33-0907	EA			Digital Voice Command, Extended Memory, Single-Fiber. (Johnson Controls, Inc. #JDVC-EMSF).....	1,654.40	36.19
28 46 21 33-0908	EA			Annunciator, Network Control. (Johnson Controls, Inc. #JNCA).....	1,960.84	48.25
28 46 21 33-0909	EA			Network Control Annunciator-2, 640-characters; On Single Panel (one JCPU2-640) JCPU2-640 Systems, The JNCA-2 Can Be The Primary Display For The Panel And Connects Directly To The JCPU2-640. On Network Systems (Two Or More JCPU2-640's), One Network Display (Either JNCA-2 Or IFW) Is Required For Every System And Each JNCA-2 Connects To And Requires An NCM Network Control Module. Mounts In A Row Of FACP Node Or In Two Annunciator Module Positions. Mounting Options Include: NCA/640-2-Kit (directly Mounting To The CHS2-M2), CA-2, ADP-4B, Or In An Annunciator Box, Such As The ABS-2DB (requires The CHS-2D). (Johnson Controls, Inc. #JNCA-2).....	1,665.68	48.25
28 46 21 33-0910	EA			Mass Notification Voice Paging; Requires JNOTIFY-PAA Hardware Package (Sold Separately). (Johnson Controls, Inc. #JNOTIFY-IP).....	1,567.78	289.51
28 46 21 33-0911	EA			160 Character Display Annunciator; For Use With JCPU-3030 And JCPU2-3030. (Johnson Controls, Inc. #LCD-160).....	1,190.70	48.25
28 46 21 33-0912	EA			80 Character LCD Annunciator. Mounts In ABS-1T, ABF-1D, ABF-2D, Or Flush Back Box. (Johnson Controls, Inc. #LCD-80).....	984.00	48.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-0913 EA Loop Control Module. Each LCM May Be Expanded To Two Loops By Adding A LEM-320. IFC2- 3030 And IFC-3030 Only. (Johnson Controls, Inc. #LCM-320).....	1,568.17	48.25
28 46 21 33-0914 EA Lamp Driver Annunciator Control Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-32).....	483.90	12.06
28 46 21 33-0915 EA Cable 24": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL24).....	158.70	9.65
28 46 21 33-0916 EA Cable 48": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL48).....	194.30	9.65
28 46 21 33-0917 EA Lamp Driver Annunciator Expander Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-E32).....	390.97	12.06
28 46 21 33-0918 EA Relay Module. 32 Form-A Contacts. Connects To LDM-32 Or LDM-E32. (Johnson Controls, Inc. #LDM-R32).....	712.31	12.06
28 46 21 33-0919 EA Loop Expander Module. Mounts As Daughter Board To LCM-320 To Provide Even Numbered SLC Loops. (Johnson Controls, Inc. #LEM-320).....	1,285.56	12.06
28 46 21 33-0920 EA Addressable Control Module With FlashScan; Configured For One Class A Or Class B NAC. (Johnson Controls, Inc. #M300CJ).....	106.58	12.06
28 46 21 33-0921 EA Addressable Dual Monitor Module; With FlashScan, Two Class B Circuits. (Johnson Controls, Inc. #M300DJ).....	166.10	12.06
28 46 21 33-0922 EA Addressable Monitor Module; With FlashScan; Supervises Either A Class A Or Class B Circuit Of N.D. Dry-contact Input Devices. (Johnson Controls, Inc. #M300MJ).....	85.02	12.06
28 46 21 33-0923 EA Addressable Relay Module With FlashScan; Provides Two Form-C Dry Contacts That Switch Together. (Johnson Controls, Inc. #M300RJ).....	116.77	12.06
28 46 21 33-0924 EA Addressable Mini Module With FlashScan; Supervises A Class B Circuit Of N.D. Dry-contact Devises. (Johnson Controls, Inc. #M301MJ).....	93.35	12.06
28 46 21 33-0925 EA Addressable 2-Wire Detector Monitor Module; With FlashScan. (Johnson Controls, Inc. #M302MJ).....	148.27	12.06
28 46 21 33-0926 EA Addressable Firephone Control Module With Flashscan. (Johnson Controls, Inc. #M500FPJ).....	168.21	12.06
28 46 21 33-0927 EA SLC Loop Isolator Module; Isolates Against Short Circuits On The SLC. (Johnson Controls, Inc. #M500XJ).....	97.60	12.06
28 46 21 33-0928 EA Network INTFC, P2P, Wire. (Johnson Controls, Inc. #MIB-W).....	1,369.64	36.19
28 46 21 33-0929 EA Network Adapter, Fiber. (Johnson Controls, Inc. #NAM-232F).....	1,213.99	24.13
28 46 21 33-0930 EA Network Adapter, Wire. (Johnson Controls, Inc. #NAM-232W).....	1,123.03	24.13
28 46 21 33-0931 EA Plate, Retrofit, NCA-2. (Johnson Controls, Inc. #NCA-2RETRO).....	44.26	4.83
28 46 21 33-0932 EA Network Control Module - Multi Mode Fiber; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-F).....	984.02	24.13
28 46 21 33-0933 EA Network Control Module - Wire; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-W).....	937.62	24.13
28 46 21 33-0934 EA NFV-25/50. (Johnson Controls, Inc. #NFV-25/50).....	2,386.83	48.25
28 46 21 33-0935 EA NU-RPT101-1U RS485. (Johnson Controls, Inc. #NU-RPT101-1U).....	668.61	24.13
28 46 21 33-0936 EA Key Switch, Remote Control. (Johnson Controls, Inc. #RK-S).....	184.41	9.65
28 46 21 33-0937 EA Microphone Assembly For Mounting To An ADP-4 Dress Panel. (Johnson Controls, Inc. #RM-1).....	426.95	24.13
28 46 21 33-0938 EA Microphone Assembly For Mounting In An CAB-RM Cabinet. (Johnson Controls, Inc. #RM-1SA).....	426.95	24.13
28 46 21 33-0939 EA Remote Page Jack. Allows Remote All-Call Paging. (Johnson Controls, Inc. #RPJ-1).....	116.21	9.65
28 46 21 33-0940 EA SA-WBB, Weatherproof. (Johnson Controls, Inc. #SA-WBB).....	32.01	4.83
28 46 21 33-0941 EA SA-WBBC, Weatherproof. (Johnson Controls, Inc. #SA-WBBC).....	32.01	4.83
28 46 21 33-0942 EA Strobe, Standard, 12/24 VDC, Red (Johnson Controls, Inc. #SCR).....	131.72	36.19
28 46 21 33-0943 EA Strobe, HI, 12/24 VDC, Red (Johnson Controls, Inc. #SCRH).....	145.55	36.19
28 46 21 33-0944 EA Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SCRHK).....	171.02	41.01
28 46 21 33-0945 EA Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SCRK).....	169.03	41.01
28 46 21 33-0946 EA Smoke Control Master; Includes Eight On/off/auto Switches. Supports One SCE-8. Includes Manual, Slide-in Labels. Mounts In ADP-4 Or ABS-4D. (Johnson Controls, Inc. #SCS-8).....	1,042.35	96.51
28 46 21 33-0947 EA Smoke Control Lamp Driver. Outputs For 8 On/off/auto Switches With LED's. Intended For Custom Built Smoke Control Stations. Support One SCE-8L. (Johnson Controls, Inc. #SCS-8L).....	824.82	96.51
28 46 21 33-0948 EA Strobe, Standard, 12/24 VDC, White (Johnson Controls, Inc. #SCW).....	131.72	36.19
28 46 21 33-0949 EA Strobe, HI, 12/24 VDC, Red (Johnson Controls, Inc. #SCWH).....	145.55	36.19
28 46 21 33-0950 EA Strobe, Standard, 12/24 VDC, White (Johnson Controls, Inc. #SCW-P).....	131.72	36.19
28 46 21 33-0951 EA Mounting Kit, M300/M500. (Johnson Controls, Inc. #SMB500).....	25.58	9.65
28 46 21 33-0952 EA SMK-MOV Kit-LON. (Johnson Controls, Inc. #SMK-MOVKit-LON).....	25.52	4.83
28 46 21 33-0953 EA SMK-MOV Kit-MSTP. (Johnson Controls, Inc. #SMK-MOVKit-MSTP).....	28.70	4.83
28 46 21 33-0954 EA SPBBS, Wall, Back Box. (Johnson Controls, Inc. #SPBBS).....	25.54	4.83
28 46 21 33-0955 EA Strobe, Standard, 12/24 VDC, Red (Johnson Controls, Inc. #SR).....	122.17	36.19
28 46 21 33-0956 EA Strobe, HI, 12/24 VDC, Red (Johnson Controls, Inc. #SRH).....	145.55	36.19
28 46 21 33-0957 EA Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SRHK).....	171.02	41.01
28 46 21 33-0958 EA Strobe, HI, 12/24 VDC, Red (Johnson Controls, Inc. #SRH-P).....	145.55	36.19
28 46 21 33-0959 EA Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SRK).....	169.03	41.01
28 46 21 33-0960 EA Strobe, Standard, 12/24 VDC, Red (Johnson Controls, Inc. #SR-P).....	131.72	36.19
28 46 21 33-0961 EA Strobe, Standard, 12/24 VDC, White (Johnson Controls, Inc. #SW).....	131.72	36.19
28 46 21 33-0962 EA Strobe, HI, 12/24 VDC, White (Johnson Controls, Inc. #SWH).....	145.55	36.19
28 46 21 33-0963 EA Strobe, HI, 12/24 VDC, White (Johnson Controls, Inc. #SWH-P).....	145.55	36.19
28 46 21 33-0964 EA Strobe, Standard, 12/24 VDC, White (Johnson Controls, Inc. #SW-P).....	131.72	36.19
28 46 21 33-0965 EA Firefighter's Telephone Handset Only. (Johnson Controls, Inc. #TELH-1).....	161.56	12.06
28 46 21 33-0966 EA Universal Digital Alarm Communicator Transmitter. (Johnson Controls, Inc. #UDACT).....	710.27	48.25
28 46 21 33-0967 EA Speaker Strobe, Ceiling, White, 2 W (MAX), Dual Voltage, Multi (Johnson Controls, Inc. #SPSCW).....	192.32	48.25
28 46 21 33-0968 EA Speaker, White, Ceiling Mount. (Johnson Controls, Inc. #SPCW).....	84.13	24.13
28 46 21 33-0969 EA Speaker, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPCWV).....	84.13	24.13
28 46 21 33-0970 EA Speaker Strobe, Red, Ceiling Mount, Standard Candela. (Johnson Controls, Inc. #SPSCR).....	144.06	24.13
28 46 21 33-0971 EA Speaker Strobe, Red, Ceiling Mount, High Candela. (Johnson Controls, Inc. #SPSCRH).....	155.53	24.13
28 46 21 33-0972 EA Speaker Strobe, Red, Ceiling Mount, High Candela, High Db. (Johnson Controls, Inc. #SPSCRHV).....	155.53	24.13
28 46 21 33-0973 EA Speaker Strobe, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPSCWV).....	139.51	24.13
28 46 21 33-0974 EA Speaker Strobe Wall, WP, White, 2W (MAX), Dual Volt, Multi D (Johnson Controls, Inc. #SPSWK).....	185.41	24.13
28 46 21 33-0975 EA Speaker Strobe, Wall, White, Standard Candela. (Johnson Controls, Inc. #SPSW).....	144.06	24.13
28 46 21 33-0976 EA Wall Mount Speaker, White. (Johnson Controls, Inc. #SPW).....	84.13	24.13
28 46 21 33-0977 EA Wall Mount Speaker, Red. (Johnson Controls, Inc. #SPR).....	84.13	24.13
28 46 21 33-0978 EA Speaker Strobe, Wall, White, High Cd. (Johnson Controls, Inc. #SPSWH).....	155.53	24.13
28 46 21 33-0979 EA Speaker Strobe, Wall, Red, High Cd. (Johnson Controls, Inc. #SPSR).....	144.06	24.13
28 46 21 33-0980 EA Speaker Strobe, Wall, Red, High Db, High Candela. (Johnson Controls, Inc. #SPSRV).....	144.06	24.13



MINOR CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION UNIT COST UNIT COST

28 46 21 33-0981	EA	Honeywell Fire Alarm (28 46 21 33)		
28 46 21 33-0982	EA	Notifier Fire Alarm (28 46 21 33-0981)		
28 46 21 33-0983	EA	Fire Alarm Control Panel And Accessories (28 46 21 33-0982)		
28 46 21 33-0984	EA	NFS2-3030 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-3030D)	4,264.81	482.51
28 46 21 33-0985	EA	NFS2-640 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-640)	3,588.00	482.51
28 46 21 33-0986	EA	Black, 120 VAC, Intelligent Fire Alarm Control Panel (Notifier NFS-320)	4,256.84	482.51
28 46 21 33-0987	EA	Supports Installation Of Optional ACM-Series Annunciator In Same Cabinet, Black, 120 VAC, Intelligent Fire Alarm Control Panel (Notifier NFS-320C)	4,382.58	482.51
28 46 21 33-0988	EA	Black, 240 VAC, Intelligent Fire Alarm Control Panel (Notifier NFS-320E)	4,276.41	482.51
28 46 21 33-0989	EA	Red, 120 VAC, Intelligent Fire Alarm Control Panel (Notifier NFS-320R)	4,276.41	482.51
28 46 21 33-0990	EA	Two-Tone Sequential Module (Notifier 2TTM)	217.76	24.13
28 46 21 33-0991	EA	5', Not Low Loss, Antenna Cable (Notifier 7626-5C)	64.96	4.83
28 46 21 33-0992	EA	25', Low Loss, Antenna Cable (Notifier 7626-25HC)	126.36	9.65
28 46 21 33-0993	EA	50', Low Loss, Antenna Cable (Notifier 7626-50HC)	192.22	14.48
28 46 21 33-0994	EA	IPGSM-COM, IPGSM-COMa Handheld Programmer (Notifier 7720P)	299.77	
28 46 21 33-0995	EA	RJ45-DB9F Serial Programming Cable (Notifier ALMSC-119)	42.82	
28 46 21 33-0996	EA	120VAC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS)	4,189.87	482.51
28 46 21 33-0997	EA	240VAC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYSE)	4,189.87	482.51
28 46 21 33-0998	EA	3 dB Gain External/Remote Antenna (Notifier GSM-ANT3dB)	162.21	4.83
28 46 21 33-0999	EA	Plug In Transformer Box For IPGSM Communicator (Notifier HPTCOVER)	49.80	4.83
28 46 21 33-1000	EA	Mounting Bracket Kit For SFB-5UD, SFB-10UD, NFW2-100 And NFW-50 (Notifier IPBRKT)	63.91	9.65
28 46 21 33-1001	EA	Chassis To Mount IP Communicator In CHSA Series Chassis (Notifier IPCHSKIT)	72.31	12.06
28 46 21 33-1002	EA	IP Communicator (Notifier IPDACT-2)	544.29	24.13
28 46 21 33-1003	EA	IP Communicator With Upload/Download Capability (Notifier IPDACT-2UD)	633.51	24.13
28 46 21 33-1004	EA	Red, IP Communicator External Mounting Enclosure (Notifier IPENC)	147.28	24.13
		Note: Includes IPBRKT.		
28 46 21 33-1005	EA	Black, IP Communicator External Mounting Enclosure (Notifier IPENC-B)	147.28	24.13
		Note: Includes IPBRKT.		
28 46 21 33-1006	EA	Single Or Dual Path Commercial Fire Communicator (Notifier IPGSM-4G)	759.34	36.19
28 46 21 33-1007	EA	Dual 8TPC To Single 8TPC "Y" Splitter With Two 9" Cables For Combining Panel Phone Jacks To One IPDACT Input (Notifier IPSPLT)	38.93	9.65
28 46 21 33-1008	EA	Loop Control Module (Notifier LCM-320)	1,431.55	48.25
28 46 21 33-1009	EA	Loop Expander Module (Notifier LEM-320)	1,242.22	48.25
28 46 21 33-1010	EA	Keyboard Display Module For CPU2-640 (Notifier KDM-R2)	1,090.94	48.25
28 46 21 33-1011	EA	7 DACT Phone Cord (Notifier MCBL-7)	18.57	
28 46 21 33-1012	EA	Backbox For UDACT, With Viewing Window And Optional Relay Mount (Notifier UBS-1)	136.54	12.06
28 46 21 33-1013	EA	Red, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1R)	160.66	24.13
28 46 21 33-1014	EA	Black, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1B)	160.66	24.13
28 46 21 33-1015	EA	Universal Digital Alarm Communicator Transmitter (Notifier UDACT-2)	605.85	24.13
28 46 21 33-1016	EA	Universal Zone Coder (Notifier UZC-256)	815.51	24.13
28 46 21 33-1017	EA	Hardware Kit To Connect UZC-256 To A PC (Notifier UZC-HI)	246.96	
		Note: Includes null modem cable, AC power adapter, and 9-pin to 25-pin converter.		
28 46 21 33-1018	EA	Programming Software For ONYX Series Products, DVC And Associated Amplifiers, DVC-RPU And UDACT-2 (Notifier VERIFIRE-TCD)	564.14	
28 46 21 33-1019	EA	ONYX Series Verifire Tools Upgrade (Notifier VERIFIREUG-TCD)	378.57	
28 46 21 33-1020	EA	Central Station Receiver For Fire And Security (Notifier VISORALARM-PLUS)	3,798.33	14.48
28 46 21 33-1021	EA	ONYX Cabinets (28 46 21 33-0982)		
28 46 21 33-1022	EA	Red, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4R)	351.55	12.06
28 46 21 33-1023	EA	Red, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4R)	469.32	12.06
28 46 21 33-1024	EA	Red, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4R)	578.16	12.06
28 46 21 33-1025	EA	Battery Dress Plate For NFS-640 And NFS-3030 (Notifier BP-4)	88.72	14.48
28 46 21 33-1026	EA	Chassis Bridge (Notifier CB-1)	77.66	12.06
28 46 21 33-1027	EA	Four Position Chassis (Notifier CHS-4)	130.30	12.06
28 46 21 33-1028	EA	Low Profile 1st Row Chassis Assembly For CPU-640 / CPU-640E (Notifier CHS-M2)	152.65	24.13
28 46 21 33-1029	EA	Black, Dress Panel Blank, Covers Unused Cabinet Row(s) (Notifier DP-1B)	70.44	14.48
28 46 21 33-1030	EA	Dress Plate For Top Row With CPU2-3030D (Notifier DP-DISP)	96.75	14.48
28 46 21 33-1031	EA	One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4)	274.74	24.13
28 46 21 33-1032	EA	One Tier, "A" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-A4B)	178.30	24.13
28 46 21 33-1033	EA	Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4)	350.18	36.19
28 46 21 33-1034	EA	Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4B)	221.90	36.19
28 46 21 33-1035	EA	Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4)	520.29	48.25
28 46 21 33-1036	EA	Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4B)	324.77	48.25
28 46 21 33-1037	EA	Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4)	632.00	60.32
28 46 21 33-1038	EA	Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4B)	378.97	60.32
28 46 21 33-1039	EA	Black, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4)	198.10	12.06
28 46 21 33-1040	EA	Black, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4B)	132.97	12.06
28 46 21 33-1041	EA	Red, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4BR)	124.94	12.06
28 46 21 33-1042	EA	Red, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4R)	198.99	12.06
28 46 21 33-1043	EA	Red, One Tier, "A" Size Blank Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4BR)	155.28	12.06
28 46 21 33-1044	EA	Red, One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4R)	252.52	12.06
28 46 21 33-1045	EA	Red, Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4BR)	174.91	12.06
28 46 21 33-1046	EA	Red, Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4R)	304.27	12.06
28 46 21 33-1047	EA	Red, Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4BR)	254.31	12.06
28 46 21 33-1048	EA	Red, Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4R)	451.47	12.06
28 46 21 33-1049	EA	Red, Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4BR)	284.64	12.06
28 46 21 33-1050	EA	Red, Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4R)	539.80	12.06
28 46 21 33-1051	EA	Black, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4)	272.18	24.13

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1052	EA		Black, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4)	395.30	24.13
28 46 21 33-1053	EA		Black, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4)	465.78	24.13
28 46 21 33-1054	EA		Black, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4)	291.81	24.13
28 46 21 33-1055	EA		Black, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4)	422.96	24.13
28 46 21 33-1056	EA		Black, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4)	491.65	24.13
28 46 21 33-1057	EA		Red, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4R).....	272.18	24.13
28 46 21 33-1058	EA		Red, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4R).....	395.30	24.13
28 46 21 33-1059	EA		Red, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4R).....	465.78	24.13
28 46 21 33-1060	EA		Red, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4R).....	291.81	24.13
28 46 21 33-1061	EA		Red, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4R).....	422.96	24.13
28 46 21 33-1062	EA		Red, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4R).....	491.65	24.13
28 46 21 33-1063	EA		Backbox With Door For ONYX Firstvision™ (Notifier FIRSTVISION-ENC)	2,525.56	120.63
28 46 21 33-1064	EA		CAB-4 Series Mounting Kit (Notifier P40-KITB)	248.99	24.13
			Note: Includes chassis, hinged dress plate, and mounting hardware.		
28 46 21 33-1065	EA		Black, One Tier Backbox Assembly (Notifier SBB-AA4).....	295.15	72.38
28 46 21 33-1066	EA		Black, Two Tier Backbox Assembly (Notifier SBB-B4).....	415.06	96.51
28 46 21 33-1067	EA		Black, Three Tier Backbox Assembly (Notifier SBB-C4).....	534.50	96.51
28 46 21 33-1068	EA		Black, Four Tier Backbox Assembly (Notifier SBB-D4).....	651.76	120.63
28 46 21 33-1069	EA		Black, Mini, One Tier, Backbox (Notifier SBB-AA4)	160.66	24.13
28 46 21 33-1070	EA		Red, Mini, One Tier, Backbox (Notifier SBB-AA4R).....	160.66	24.13
28 46 21 33-1071	EA		Red, One Tier Backbox Assembly (Notifier SBB-A4R).....	199.92	24.13
28 46 21 33-1072	EA		Red, Two Tier Backbox Assembly (Notifier SBB-B4R).....	272.18	24.13
28 46 21 33-1073	EA		Red, Three Tier Backbox Assembly (Notifier SBB-C4R).....	392.62	24.13
28 46 21 33-1074	EA		Red, Four Tier Backbox Assembly (Notifier SBB-D4R).....	462.21	24.13
28 46 21 33-1075	EA		Trim Ring For NFS-320 Cabinet (Notifier TR-320).....	146.72	14.48
28 46 21 33-1076	EA		Red, Trim Ring For NFS-320 Cabinet (Notifier TR-320R).....	146.72	14.48
28 46 21 33-1077	EA		Black, "AA" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-AA4).....	191.32	14.48
28 46 21 33-1078	EA		Black, "A" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-A4).....	156.53	14.48
28 46 21 33-1079	EA		Black, "B" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-B4).....	156.53	14.48
28 46 21 33-1080	EA		Black, "C" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-C4).....	154.74	14.48
28 46 21 33-1081	EA		Black, "D" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-D4).....	158.31	14.48
28 46 21 33-1082	EA		2" Filler Dress Plate For ADP-4B Installed In The Top Row Of A CAB-4 Series Backbox (Notifier VP-2B).....	65.08	14.48
28 46 21 33-1083	EA		Wire Trays For Routing Wire In A CAB-4 Series Backbox (Notifier WC-2).....	41.32	4.83
28 46 21 33-1084			NFS2-3030/640 Cabinet Mechanicals (28 46 21 33-0982)		
28 46 21 33-1085	EA		Dress Plate For Middle Rows With CPU2-640 (Notifier ADP2-640).....	93.53	14.48
28 46 21 33-1086	EA		Blank Module Dress Plate (Notifier BM-1B).....	78.49	14.48
28 46 21 33-1087	EA		Battery Dress Plate For NFS2-3030, NFS2-640, NCA-2 And DVC System (Notifier BP2-4).....	88.23	14.48
28 46 21 33-1088	EA		Four Position Expansion Chassis (Notifier CHS-4MB).....	192.75	12.06
28 46 21 33-1089	EA		Standard 1st Row Chassis Assembly For CPU-3030 (Notifier CHS-M3).....	199.78	36.19
28 46 21 33-1090	EA		Dress Plate For Top Row With CPU2-640 (Notifier DP-DISP2).....	97.07	14.48
28 46 21 33-1091			NFS-3030/640 Cabinet Mechanicals (28 46 21 33-0982)		
28 46 21 33-1092	EA		Annunciator Dress Plate (Notifier ADP-4B).....	89.11	14.48
28 46 21 33-1093	EA		Blank Module Dress Plate (Notifier BMP-1).....	58.15	14.48
28 46 21 33-1094	EA		Low Profile Four Position Chassis For AA-30 Or LDM (Notifier CHS-4L).....	127.43	24.13
28 46 21 33-1095	EA		Module Dress Plate (Notifier MP-1B).....	90.00	14.48
28 46 21 33-1096			Battery Cabinets (28 46 21 33-0982)		
28 46 21 33-1097	EA		Six Position Chassis (Notifier CHS-6).....	85.67	24.13
28 46 21 33-1098	EA		Black, 24" x 14" x 7-3/4" Battery Backbox (Notifier NFS-LBB).....	404.86	72.38
28 46 21 33-1099			Digital Voice (28 46 21 33-0982)		
28 46 21 33-1100	EA		Chassis Used With BB-XP (Notifier 18439).....	42.42	12.06
28 46 21 33-1101	EA		220 VAC, 100 Watts, 70.7 VRMS, Tone Generator, Audio Amplifier (Notifier AA-100E).....	1,655.07	36.19
28 46 21 33-1102	EA		220 VAC, 120 Watts, 25 VRMS, Tone Generator, Audio Amplifier (Notifier AA-120E).....	1,608.68	36.19
28 46 21 33-1103	EA		220 VAC, 30 Watts, 25 VRMS Audio Amplifier (Notifier AA-30E).....	776.29	36.19
28 46 21 33-1104	EA		Black, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4).....	397.07	36.19
28 46 21 33-1105	EA		Black, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4).....	537.99	48.25
28 46 21 33-1106	EA		Black, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4).....	670.04	60.32
28 46 21 33-1107	EA		Multimode Audio Fiber Link Receiver (Notifier AFL-RM).....	681.68	24.13
28 46 21 33-1108	EA		Single Mode Audio Fiber Link Receiver (Notifier AFL-RS).....	1,503.36	24.13
28 46 21 33-1109	EA		Multimode Audio Fiber Link Transmitter (Notifier AFL-TM).....	681.68	24.13
28 46 21 33-1110	EA		Single Mode Audio Fiber Link Transmitter (Notifier AFL-TS).....	1,503.36	24.13
28 46 21 33-1111	EA		15" x 8-3/8" x 3-3/8", Flush Or Surface Mounted Backbox (Notifier AFAWS-BX).....	86.14	12.06
28 46 21 33-1112	EA		Flush Mounted, Key Lock, Door (Notifier AFAWS-KR).....	137.43	12.06
28 46 21 33-1113	EA		Surface Mounted, Key Lock, Door (Notifier AFAWS-KS).....	139.66	12.06
28 46 21 33-1114	EA		Flush Mounted, Latch Style Lock, Door (Notifier AFAWS-LR).....	137.88	12.06
28 46 21 33-1115	EA		Surface Mounted, Latch Style Lock, Door (Notifier AFAWS-LS).....	139.66	12.06
28 46 21 33-1116	EA		Armored Coil Cord, Telephone Chassis (Notifier AFAWS-TELA).....	262.34	12.06
28 46 21 33-1117	EA		Coil Cord, Telephone Chassis (Notifier AFAWS-TELC).....	213.71	12.06
28 46 21 33-1118	EA		Hammer Attached To Chain, Breakglass Insert (Notifier BRKG-B).....	58.72	
28 46 21 33-1119	EA		For 25 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-25V).....	458.64	24.13
28 46 21 33-1120	EA		For 70 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-70V).....	458.64	24.13
28 46 21 33-1121	EA		Blank Dress Plate For CA-2 (Notifier BP-CA2).....	81.23	12.06
28 46 21 33-1122	EA		One Tier Chassis For Digital Voice Command Panel (Notifier CA-1).....	111.95	24.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1123 EA Two Tier Chassis For Digital Voice Command Panel, With MIC-1 (Notifier CA-2).....	332.49	36.19
28 46 21 33-1124 EA Black, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RM)	166.02	24.13
28 46 21 33-1125 EA Red, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RMR)	166.02	24.13
28 46 21 33-1126 EA Chassis, Phone Well, TELH-1 And Hardware (Notifier CFFT-1).....	188.29	12.06
28 46 21 33-1127 EA Chassis With Paging Microphone With Well (Notifier CMIC-1).....	215.94	12.06
28 46 21 33-1128 EA 120 VAC, 50 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025).....	1,320.48	24.13
28 46 21 33-1129 EA Multi-Mode Fiber-Optic Media 50 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025F).....	1,072.46	24.13
28 46 21 33-1130 EA Single-Mode Fiber-Optic Media 50 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025SF).....	1,072.46	24.13
28 46 21 33-1131 EA 120 VAC, 50 Watts, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070).....	1,362.94	24.13
28 46 21 33-1132 EA Multi-Mode Fiber-Optic Media 50 Watts, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070F).....	1,165.57	24.13
28 46 21 33-1133 EA 120 VAC, 75 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525).....	1,415.14	24.13
28 46 21 33-1134 EA Single-Mode Fiber-Optic Media 75 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF).....	1,398.35	24.13
28 46 21 33-1135 EA Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF).....	1,398.35	24.13
28 46 21 33-1136 EA 220-240 VAC, 50 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA2-5025E).....	1,331.18	24.13
28 46 21 33-1137 EA 220-240 VAC, 50 Watts, 70 VRMS Digital Audio Amplifier (Notifier DAA2-5070E).....	1,374.00	24.13
28 46 21 33-1138 EA 220-240 VAC, 75 Watts, 25 VRMS Digital Audio Amplifier (Notifier DAA2-7525E).....	1,426.64	24.13
28 46 21 33-1139 EA 120 VAC, 35 Watts, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525).....	912.75	24.13
28 46 21 33-1140 EA 220-240 VAC, 35 Watts, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525E).....	912.75	24.13
28 46 21 33-1141 EA 120 VAC, 35 Watts, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570).....	970.74	24.13
28 46 21 33-1142 EA 220-240 VAC, 35 Watts, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570E).....	970.74	24.13
28 46 21 33-1143 EA 120 VAC, 50 Watts, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025).....	1,008.21	24.13
28 46 21 33-1144 EA 220-240 VAC, 50 Watts, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025E).....	1,008.21	24.13
28 46 21 33-1145 EA 120 VAC, 50 Watts, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070).....	1,066.20	24.13
28 46 21 33-1146 EA 220-240 VAC, 50 Watts, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070E).....	1,066.20	24.13
28 46 21 33-1147 EA Dress Plate For CFFT-1 (Notifier DP-CFFT).....	93.72	12.06
28 46 21 33-1148 EA Dress Panel For One Tier Chassis For Digital Voice Command Panel (Notifier DPA-1).....	84.69	14.48
28 46 21 33-1149 EA Dress Panel For One Tier Chassis For Digital Voice Command Panel, Supports Keypad (Notifier DPA-1A4).....	97.07	14.48
28 46 21 33-1150 EA Dress Panel For Two Tier Chassis For Digital Voice Command Panel (Notifier DPA-2B).....	163.43	14.48
28 46 21 33-1151 EA WPS Power Amplifier (Notifier DPA3204P).....	538.94	24.13
28 46 21 33-1152 EA WPS Power Amplifier (Notifier DPA4001P).....	454.18	24.13
28 46 21 33-1153 EA Modem Interface For Direct Wire (No Dial-Up Capabilities) For Interconnecting Panels (Notifier DPI-232).....	949.33	24.13
28 46 21 33-1154 EA 120 VAC, 125 Watts, 25 VRMS Digital Series Amplifier (Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V) (Notifier DS-AMP).....	717.37	24.13
28 46 21 33-1155 EA 220-240 VAC, 125 Watts, 25 VRMS Digital Series Amplifier (Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V) (Notifier DS-AMPE).....	717.37	24.13
28 46 21 33-1156 EA Digital Series Distribution Board, Supports One To Four DS-Amp Or DS-AMPE (Notifier DS-DB).....	1,208.06	24.13
28 46 21 33-1157 EA 125 Watts, 25 VRMS DS Series Backup Amplifier Board (Can Be Converted To 70 VRMS, 100 Watts Amplifier With A DS-XF70V) (Notifier DS-BDA).....	494.33	24.13
28 46 21 33-1158 EA Converts One DAX Or DAA2 DAL Port To Multi-Mode Fiber, Fiber Option Module (Notifier DS-FM).....	253.45	24.13
28 46 21 33-1159 EA Converts One DAX Or DAA2 Port To ST Style Multi-Mode Fiber (For Connection To DVC-EMF Or DAA-XXXX Series Amplifier), Fiber Option Module (Notifier DS-RFM).....	253.45	24.13
28 46 21 33-1160 EA Converts One DAX Or DAA2 DAL Port To Single-Mode Fiber, Fiber Option Module (Notifier DS-SFM).....	253.45	24.13
28 46 21 33-1161 EA Converts DS-AMP, DS-AMPE, Or DS-BDA To 70 VRMS, 100 Watts, DS Series Transformer (Notifier DS-XF70V).....	110.70	24.13
28 46 21 33-1162 EA Analog Output Board For Digital Voice Command (Notifier DVC-AO).....	238.46	24.13
28 46 21 33-1163 EA Extended Memory For Digital Voice Command (Notifier DVC-EM).....	1,331.09	24.13
28 46 21 33-1164 EA Keypad For Digital Voice Command (Notifier DVC-KD).....	401.74	48.25
28 46 21 33-1165 EA Replacement Microphone For NFC-50/100, NFC-LOC, NFC-RPU And NFC-RM (Notifier ECC-MICROPHONE).....	189.87	
28 46 21 33-1166 EA Fire Fighters Telephone Control With Master Handset (Notifier FFT-7).....	1,382.25	48.25
28 46 21 33-1167 EA Portable Fireman's Telephone Handset (Notifier FHS).....	121.62	
28 46 21 33-1168 EA Red, Fireman's Telephone Handset (Notifier FHS-F).....	121.62	
28 46 21 33-1169 EA Recessed, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-R).....	339.99	24.13
28 46 21 33-1170 EA Surface Mounted, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-S).....	339.99	24.13
28 46 21 33-1171 EA Fireman's Phone Jack On A Single Gang Plate (Notifier FPJ).....	56.41	7.23
28 46 21 33-1172 EA Paging Microphone Only (Notifier MIC-1).....	164.15	24.13
28 46 21 33-1173 EA Firefighter's Telephone Handset (Notifier TELH-1).....	133.66	
28 46 21 33-1174 EA Remote Microphone Assembly For Mounting On An ADP-4 Dress Plate (Notifier RM-1).....	392.41	24.13
28 46 21 33-1175 EA Remote Microphone Assembly For Mounting In A Stand Alone Cabinet (Notifier RM-1SA).....	392.41	24.13
28 46 21 33-1176 Amplifiers <small>(28 46 21 33-0982)</small>		
28 46 21 33-1177 EA 30 Watt Audio Amplifier At 25 VRMS, 120 VAC (Notifier AA-30).....	746.29	24.13
28 46 21 33-1178 EA 100 Watt Audio Amplifier At 70.7 VRMS, 120 VAC, Tone Generator (Notifier AA-100).....	1,617.74	24.13
28 46 21 33-1179 EA 120 Watt Audio Amplifier At 25 VRMS, 120 VAC, Tone Generator (Notifier AA-120).....	1,571.74	24.13
28 46 21 33-1180 EA Audio Coupling Transformer (Notifier ACT-1).....	121.68	24.13
28 46 21 33-1181 EA Audio Coupling Transformer For Analog Amplifiers (Notifier ACT-2).....	141.15	24.13
28 46 21 33-1182 EA Audio Coupling Transformer For DVC-AO (Notifier ACT-4).....	141.15	24.13
28 46 21 33-1183 EA Audio Coupling Transformer For DAA-5025 (Notifier ACT-25).....	141.15	24.13
28 46 21 33-1184 EA Audio Coupling Transformer For DAA-5070 (Notifier ACT-70).....	141.15	24.13
28 46 21 33-1185 FireVoice-25/50 Emergency Voice Evacuation Control Panels <small>(28 46 21 33-0982)</small>		
28 46 21 33-1186 EA 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50).....	3,111.20	482.51
28 46 21 33-1187 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50DA).....	2,268.56	482.51
28 46 21 33-1188 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel Used With NFV-25/50ZS (Notifier NFV-25/50DAZS).....	2,873.77	482.51
28 46 21 33-1189 EA Zoned System 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZS).....	3,665.21	482.51
28 46 21 33-1190 EA Zoned System With Telephone 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZST).....	4,028.34	482.51
28 46 21 33-1191 System Printer <small>(28 46 21 33-0982)</small>		
28 46 21 33-1192 EA 80 Column, 120 VAC, Desktop Printer (Notifier PRN-6).....	1,607.13	24.13

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1193			Batteries <small>(28 46 21 33-0982)</small>		
	EA		5 Amp Hour, 12 VDC, Sealed Battery Pack (Notifier BAT-1250-BP).....	455.07	24.13
	EA		7 Amp Hour, 12 VDC, Sealed Battery Pack (Notifier BAT-1270-BP).....	350.82	24.13
	EA		12 Amp Hour, 12 VDC, Sealed Battery Pack (Notifier BAT-12120-BP).....	458.76	24.13
	EA		18 Amp Hour, 12 VDC, Sealed Battery Pack (Notifier BAT-12180-BP).....	271.20	24.13
	EA		26 Amp Hour, 12 VDC, Sealed Battery Pack (Notifier BAT-12260-BP).....	375.60	24.13
	EA		55 Amp Hour, 12 VDC, Sealed Battery (Notifier BAT-12550).....	374.71	24.13
	EA		100 Amp Hour, 12 VDC, Sealed Battery (Notifier BAT-121000).....	591.29	24.13
28 46 21 33-1201			Battery Backboxes And Miscellaneous Mechanicals <small>(28 46 21 33-0982)</small>		
	EA		14-1/2" x 8-1/4" x 4-3/4", Holds Up To Two BAT-12180 Batteries, Battery Backbox (Notifier BB-17).....	118.00	19.30
	EA		24" x 12.55" x 5.218", Mounts Up To Six XP6 Boards Or ACPS-610, Cabinet (Notifier BB-25).....	180.45	19.30
			Note: XP6 modules require a CHS-6.		
	EA		15.6" x 15.5" x 5.152", Mounts Up To Two 26 Amp Hour And Charger, Battery Backbox (Notifier BB-26).....	332.79	96.51
	EA		Holds Up To Two BAT-12120 12 Amp Hour Batteries, Battery Holder (Notifier CHS-BH).....	159.85	48.25
	EA		Holds Up To Two BAT-12120 12 Amp Hour Batteries, Battery Holder (Notifier CHS-BH1).....	71.41	12.06
	EA		Battery Bracket For Two 26 Amp Hour Batteries (Notifier SEISKIT-BB25).....	198.30	19.30
	EA		Two 26 Amp Hour Battery Bracket Seismic Kit For CAB-4 Series Cabinets (Notifier SEISKIT-CAB).....	154.58	19.30
	EA		Two 12 Amp Hour Battery Bracket Seismic Kit For DAX, DAA, And DAA2 Series Amplifiers (Notifier SEISKIT-DAA).....	170.64	19.30
	EA		Two 55 Amp Hour Battery Bracket Seismic Kit For NFS-LBB (Notifier SEISKIT-LBB).....	184.91	19.30
28 46 21 33-1211			Power Supplies And Chargers <small>(28 46 21 33-0982)</small>		
	EA		120 VAC, 6 Or 10 Amps, Addressable Charging Power Supply (Notifier ACPS-610).....	1,142.97	36.19
	EA		220/240 VAC, 6 Or 10 Amps, Addressable Charging Power Supply (Notifier ACPS-610E).....	1,142.97	36.19
	EA		Addressable Power Supply, 120 VAC For NFS-3030, NFS2-3030 And NCA-2 (Notifier AMPS-24).....	1,135.57	24.13
	EA		6A Auxiliary Power Supply (Notifier APS-6R).....	581.77	24.13
	EA		10 Amp Battery Charger (Notifier BC10A).....	723.66	36.19
	EA		33.34" x 22.5" x 7.5", Holds Four 55 Amp Hour Or Two 100 Amp Hour Batteries, For NFS-3030 Or NFS2-3030, Combination Power Supply And Battery Enclosure (Notifier BB-100).....	427.25	28.95
	EA		33.34" x 22.5" x 7.5", Holds Four 55 Amp Hour Or Two 100 Amp Hour Batteries, For NFS-3030 Or NFS2-3030, Red, Combination Power Supply And Battery Enclosure (Notifier BB-100R).....	427.25	28.95
	EA		30.34" x 36.5" x 7.5", Holds Four 55 Amp Hour Or Four 100 Amp Hour Batteries, For NFS2-3030, Combination Power Supply And Battery Enclosure (Notifier BB-200).....	611.93	28.95
	EA		30.34" x 36.5" x 7.5", Holds Four 55 Amp Hour Or Four 100 Amp Hour Batteries, For NFS2-3030, Red, Combination Power Supply And Battery Enclosure (Notifier BB-200R).....	611.93	28.95
	EA		15.218" x 14.5" x 3.562" ACPS Stand-Alone Cabinet (Notifier CAB-PS1).....	117.84	24.13
	EA		25 To 120 Amp Hour Battery Charger (Notifier CHG-120).....	877.23	24.13
	EA		Mounts XPIQ-Ps And/Or CHS-BH In A CAB-3/4 Row, Also Mount One ACPS-610 In CAB-3 Row, Chassis Assembly (Notifier CHS-PS).....	66.95	12.06
	EA		Replacement Door Used For Mounting ACPS-610 (E) In A CAB-PS1 Cabinet When Replacing ACPS-2406 (Notifier DR-PS1).....	104.42	12.06
	EA		8.0 Amps, 120 VAC Remote Charger Power Supply (Notifier FCPS-24S8).....	584.39	24.13
	EA		8.0 Amps, 240 VAC Remote Charger Power Supply (Notifier FCPS-24S8E).....	685.40	72.38
	EA		Red, 8.0 Amps, 240 VAC Remote Charger Power Supply (Notifier FCPS-24S8R).....	685.40	72.38
	EA		8 Amp, 24 VDC, 120 VAC, NAC Fire Alarm Power Supply (Notifier HPFF8).....	780.86	72.38
	EA		8 Amp, 24 VDC, 220 VAC, NAC Fire Alarm Power Supply (Notifier HPFF8E).....	780.86	72.38
	EA		Chassis Mounted, 8 Amp, 24 VDC, 120 VAC, NAC Fire Alarm Power Supply (Notifier HPFF8CM).....	741.50	36.19
	EA		Chassis Mounted, 8 Amp, 24 VDC, 220 VAC, NAC Fire Alarm Power Supply (Notifier HPFF8CME).....	741.50	36.19
	EA		12 Amp, 24 VDC, 120 VAC, NAC Fire Alarm Power Supply (Notifier HPFF12).....	897.63	36.19
	EA		12 Amp, 24 VDC, 220 VAC, NAC Fire Alarm Power Supply (Notifier HPFF12E).....	897.63	36.19
	EA		Chassis Mounted, 12 Amp, 24 VDC, 120 VAC, NAC Fire Alarm Power Supply (Notifier HPFF12CM).....	931.53	72.38
	EA		Chassis Mounted, 12 Amp, 24 VDC, 220 VAC, NAC Fire Alarm Power Supply (Notifier HPFF12CME).....	931.53	72.38
	EA		6 Amp, 24 VDC, 120 VAC, NAC Fire Alarm Power Supply (Notifier HPF24S6).....	654.17	72.38
	EA		6 Amp, 24 VDC, 220 VAC, NAC Fire Alarm Power Supply (Notifier HPF24S6E).....	654.17	72.38
	EA		8 Amp, 24 VDC, 120 VAC, NAC Fire Alarm Power Supply (Notifier HPF24S8).....	705.03	72.38
	EA		8 Amp, 24 VDC, 220 VAC, NAC Fire Alarm Power Supply (Notifier HPF24S8E).....	705.03	72.38
	EA		6 Amp, 24 VDC, 120 VAC, NAC Fire Alarm Power Supply (Notifier HPF602ULADA).....	568.53	72.38
	EA		9 Amp, 24 VDC, 120 VAC, NAC Fire Alarm Power Supply (Notifier HPF902ULADA).....	668.45	72.38
	EA		Class A Adapter HPFF8/HPFF12 (Notifier HPP31076).....	135.65	12.06
	EA		Main Power Supply And Charger, Up To 3 Amps (Notifier MPS-24A).....	839.69	24.13
	EA		Class A (Style Y) NAC Option Module For FCPS-2406 And FCPS-2408 (Notifier ZNAC-4).....	158.88	24.13
28 46 21 33-1245			Network Control Annunciators <small>(28 46 21 33-0982)</small>		
	EA		Network Control Annunciator For NFS2-3030, NFS-3030, NFS-320, NFS-640 And NFS2-640 (Notifier NCA-2).....	1,604.54	72.38
	EA		Retro-Fit Plate For Mounting NCA2 (Notifier NCA-2RETRO).....	65.22	14.48
	EA		Kit For Mounting NCA-2 To CHS-M2 (Notifier NCA/640-2-Kit).....	48.41	14.48
28 46 21 33-1249			FIRSTVISION Firefighter's Display <small>(28 46 21 33-0982)</small>		
	EA		Replacement ONYX Firstvision™ Touchscreen Assembly (Notifier FIRSTVISION-LCD).....	12,546.67	482.51
28 46 21 33-1251			FlashScan Addressable Modules <small>(28 46 21 33-0982)</small>		
	EA		Intelligent Addressable Control Module (Notifier FCM-1).....	144.68	24.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1253 EA Addressable Dual Monitor Module (Notifier FDM-1)	160.61	24.13
28 46 21 33-1254 EA Intelligent Addressable Monitor Module (Notifier FMM-1)	121.68	24.13
28 46 21 33-1255 EA Intelligent Addressable Miniature Monitor Module (Notifier FMM-101)	109.30	24.13
28 46 21 33-1256 EA Intelligent Addressable 4 - 20mA Analog Input Module (Notifier FMM-4-20)	216.35	24.13
28 46 21 33-1257 EA Intelligent Addressable Relay Module (Notifier FRM-1)	139.38	24.13
28 46 21 33-1258 EA Intelligent Addressable 2-Wire Detector Monitor Module (Notifier FZM-1)	180.07	24.13
28 46 21 33-1259 EA SLC Loop Powered Fault Isolator Module (Notifier ISO-X)	119.91	24.13
28 46 21 33-1260 Addressable Device Bases And Accessories <small>(28 46 21 33-0982)</small>		
28 46 21 33-1261 EA Intelligent Detector Base With Flange (Notifier B710LP)	41.82	12.06
28 46 21 33-1262 EA Weatherproof Device Housing (Notifier DH400OE-1)	358.79	24.13
28 46 21 33-1263 XP6/XP10 Transponder <small>(28 46 21 33-0982)</small>		
28 46 21 33-1264 EA Synchronization Daughter Module For XP6-C (Notifier SYNC-1)	108.85	24.13
28 46 21 33-1265 EA Six Circuit Supervised Control Module (Notifier XP6-C)	511.84	24.13
28 46 21 33-1266 EA Six Zone Intelligent To Conventional Interface Module (Notifier XP6-MA)	618.01	24.13
28 46 21 33-1267 EA Six Relay Control Module (Notifier XP6-R)	492.38	24.13
28 46 21 33-1268 EA Ten Input Monitor Module (Notifier XP10-M)	591.47	24.13
28 46 21 33-1269 LCD Display Annunciators <small>(28 46 21 33-0982)</small>		
28 46 21 33-1270 EA 80 Character LCD Fire Annunciator For FireWarden-100-2, NFS-640, NFS2-640 And NFS-320 (Notifier FDU-80)	671.16	72.38
28 46 21 33-1271 EA 80 Character LCD Annunciator For NFS-640, NFS-3030, NFS2-640, NFS2-3030 And NFS-320 (Notifier LCD-80)	932.15	72.38
28 46 21 33-1272 EA 640 Character LCD Annunciator For NFS-3030 And NFS2-3030 (Notifier LCD-160)	964.00	72.38
28 46 21 33-1273 EA 8 To 16 Switch Smoke Control Expander (Notifier SCE-8)	631.72	24.13
28 46 21 33-1274 EA 8 To 16 Switch Smoke Control Lamp Driver Expander (Notifier SCE-8L)	338.20	24.13
28 46 21 33-1275 EA Eight Switch Smoke Control Master Module (Notifier SCS-8)	819.08	24.13
28 46 21 33-1276 ONYX ACM And AEM Series LED Annunciators <small>(28 46 21 33-0982)</small>		
28 46 21 33-1277 EA Remote, Eight Form C Relay Module (Notifier ACM-8R)	373.00	24.13
28 46 21 33-1278 EA 16 Alarm LEDs, 16 Trouble LEDs, 16 Controls Switches, Annunciator Control Module (Notifier ACM-16AT)	675.52	24.13
28 46 21 33-1279 EA 16 Alarm LEDs, 16 Trouble LEDs, 16 Control Switches, Annunciator Expander Module (Notifier AEM-16AT)	518.92	24.13
28 46 21 33-1280 EA 24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Control Module (Notifier ACM-24AT)	675.52	24.13
28 46 21 33-1281 EA 24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Expander Module (Notifier AEM-24AT)	518.92	24.13
28 46 21 33-1282 EA 32 Alarm LEDs And 1 Trouble LED, Control Module (Notifier ACM-32A)	518.92	24.13
28 46 21 33-1283 EA 32 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-32A)	465.84	24.13
28 46 21 33-1284 EA 48 Alarm And 1 Trouble LED Annunciator Control Module (Notifier ACM-48A)	518.92	24.13
28 46 21 33-1285 EA 48 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-48A)	465.84	24.13
28 46 21 33-1286 Graphic Annunciator - Lamp Driver Modules <small>(28 46 21 33-0982)</small>		
28 46 21 33-1287 EA Single Annunciator Flush Mounted Backbox (Notifier ABF-1B)	225.68	48.25
28 46 21 33-1288 EA Single Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-1DB)	244.26	48.25
28 46 21 33-1289 EA Two Annunciator Flush Mounted Backbox (Notifier ABF-2B)	282.53	60.32
28 46 21 33-1290 EA Two Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-2DB)	306.42	60.32
28 46 21 33-1291 EA Four Annunciator Flush Mounted Backbox (Notifier ABF-4B)	489.14	84.44
28 46 21 33-1292 EA Annunciator Blank Plate Used With ACM-32A/ACM-16AT (Notifier ABM-1)	86.90	14.48
28 46 21 33-1293 EA Single Annunciator Surface Mounted Backbox (Notifier ABS-1B)	150.04	48.25
28 46 21 33-1294 EA Single Annunciator Surface Mounted Backbox With Trim (Notifier ABS-1TB)	121.38	12.06
28 46 21 33-1295 EA Two Annunciator Surface Mounted Backbox (Notifier ABS-2B)	184.10	48.25
28 46 21 33-1296 EA 12" x 12" x 3-3/4" Surface Or Semi-Flush Mount Backbox (Notifier ABS-2D)	318.81	60.32
28 46 21 33-1297 EA Red, Surface (Or Semi-Flush) Mounted Backbox For ACS Annunciators, SCS Series, NCA And NCA-2 (Notifier ABS-2DR)	223.97	12.06
28 46 21 33-1298 EA Black, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4D)	513.03	84.44
28 46 21 33-1299 EA Red, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4DR)	376.00	14.48
28 46 21 33-1300 EA Black, 9-15/16" x 4-5/8" x 2-1/2" Surface Backbox (Notifier ABS-8RB)	148.34	19.30
28 46 21 33-1301 EA Annunciator Key Switch (Notifier AKS-1B)	72.47	7.23
28 46 21 33-1302 EA Chassis Used To Mount NCA-2 In ABS-2D (Notifier CHS-2D)	85.85	24.13
28 46 21 33-1303 EA 32 Alarm Lamp Driver Annunciator Control Module (Notifier LDM-32)	465.84	24.13
28 46 21 33-1304 EA 24" Lamp Driver Annunciator Cable (Notifier LDM-CBL24)	137.23	4.83
28 46 21 33-1305 EA 48" Lamp Driver Annunciator Cable (Notifier LDM-CBL48)	171.13	4.83
28 46 21 33-1306 EA 32 Alarm Lamp Driver Annunciator Expander Module (Notifier LDM-E32)	385.33	24.13
28 46 21 33-1307 EA Lamp Driver Module (Notifier LDM-R32)	671.87	24.13
28 46 21 33-1308 EA Eight Switch Smoke Control Lamp Driver Master Module (Notifier SCS-8L)	623.69	24.13
28 46 21 33-1309 EA 48" Cable Assembly For Smoke Control Lamp Driver (Notifier SCS8L-CBL48)	173.81	4.83
28 46 21 33-1310 EA Black, Trim Ring For ABS-2D Cabinet (Notifier TR-ABS2D)	144.93	14.48
28 46 21 33-1311 EA Black, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4D)	90.51	14.48
28 46 21 33-1312 EA Red, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4DR)	90.51	14.48
28 46 21 33-1313 Network Gateways <small>(28 46 21 33-0982)</small>		
28 46 21 33-1314 EA Common Alerting Protocol Gateway (Notifier CAP-GW)	2,501.69	24.13
28 46 21 33-1315 EA PC Version, Receivers Gateway (Notifier DACR-GW)	1,957.47	24.13
28 46 21 33-1316 EA Fiber-Optic Cable Interface (Multi-Mode), High-Speed Network Communications Module (Notifier HS-NCM-MF)	1,868.26	24.13
28 46 21 33-1317 EA Fiber-Optic Cable Interface (Multi-Mode Fiber To Single-Mode Fiber), High-Speed Network Communications Module (Notifier HS-NCM-MFSF)	2,091.30	24.13
28 46 21 33-1318 EA Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-SF)	2,323.26	24.13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1319 EA Twisted-Pair Wire Interface, High-Speed Network Communications Module (Notifier HS-NCM-W).....	1,779.04	24.13
28 46 21 33-1320 EA Wire And Fiber-Optic Cable Interface, High-Speed Network Communications Module (Multi-Mode) (Notifier HS-NCM-WMF)	1,823.65	24.13
28 46 21 33-1321 EA Wire And Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-WSF)	2,051.15	24.13
28 46 21 33-1322 EA Modbus Gateway (Notifier MODBUS-GW)	1,957.47	24.13
28 46 21 33-1323 EA 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW)	2,383.31	15.92
28 46 21 33-1324 EA Capacitive Touch-Screen, 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW-TS)	3,551.14	15.92
28 46 21 33-1325 EA 1920x1080P Wide Screen (Notifier MON-42LCDW).....	11,260.30	15.92
28 46 21 33-1326 EA Single Monitor, Wall Mounted, Horizontal, Tilt, Bracket (Notifier MON-42HORZ-SD).....	464.93	36.19
28 46 21 33-1327 EA Single Monitor, Vertical Mounted, Bracket (Notifier MON-42VERT-SD)	844.10	36.19
28 46 21 33-1328 EA Dual Monitors, Vertical Wall Mounted, Fixed Position, Bracket (Notifier MON-42VERT-DD)	1,227.73	36.19
28 46 21 33-1329 EA Mass Notification Voice Paging (Notifier NOTIFY-IP)	936.77	
28 46 21 33-1330 EA Non UL Listed Applications, Mass Notification Voice Paging (Notifier NOTIFY-IP-NOUL)	936.77	
28 46 21 33-1331 EA Embedded NFN Gateway (Notifier NFN-GW-EM)	1,941.55	24.13
28 46 21 33-1332 EA NFN Gateway PC Card With Fiber (Notifier NFN-GW-PC-F).....	1,941.55	24.13
28 46 21 33-1333 EA High Speed NFN Gateway PC Card For Multimode Fiber (Included With ONYXworks-HNMF) (Notifier NFN-GW-PC-HNMF)	2,849.63	24.13
28 46 21 33-1334 EA High Speed NFN Gateway PC Card For Single Mode Fiber (Included With ONYXworks-HNSF) (Notifier NFN-GW-PC-HNSF)	3,322.48	24.13
28 46 21 33-1335 EA High Speed NFN Gateway PC Card For Wire (Included With ONYXworks-HNW) (Notifier NFN-GW-PC-HNW)	2,849.63	24.13
28 46 21 33-1336 EA NFN Gateway PC Card With Wire (Notifier NFN-GW-PC-W)	1,941.55	24.13
28 46 21 33-1337 EA E-Mail Option For ONYXworks (Notifier ONYX-NOTIFY)	936.77	
28 46 21 33-1338 EA Alpha-Numeric Pager Option For ONYXworks (Notifier ONYX-PAGER)	936.77	
28 46 21 33-1339 EA ONYXWorks Workstation (Notifier ONYXWORKS-WS)	17,928.84	579.01
28 46 21 33-1340 EA Fiber Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NW).....	3,761.64	
Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46 21 33-1341 EA Wired Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NF).....	3,761.64	
Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46 21 33-1342 EA Fiber Optics, Standard Network Repeater Board (Notifier RPT-F).....	870.82	24.13
28 46 21 33-1343 EA Wire, Standard Network Repeater Board (Notifier RPT-W)	707.56	24.13
28 46 21 33-1344 EA Wire To Fiber Optics, Standard Network Repeater Board (Notifier RPT-WF).....	847.63	24.13
28 46 21 33-1345 EA Signaling Line Circuit Integration Module (Notifier SLC-IM).....	935.95	24.13
28 46 21 33-1346 EA VESDA Gateway That Provides A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VESDA-HLI-GW).....	1,957.47	24.13
28 46 21 33-1347 EA Vesda™ High Level Interface Card Used With SLC-IM And Vesda-HLI-GW To Provide A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VHX-1420-HFS)	1,618.45	24.13
28 46 21 33-1348 EA Windows 7 Hard Drive Upgrade (Notifier WIN7-UG-US-3)	1,784.32	
28 46 21 33-1349 NOTI-FIRE-NET Network Components <small>(28 46 21 33-0982)</small>		
28 46 21 33-1350 EA Interface Between NOTI-FIRE-NET 50 And BACnet (Notifier BACNET-GW-3).....	1,941.55	24.13
28 46 21 33-1351 EA Fiber Optic Network Communications Module (Notifier NCM-F).....	868.39	24.13
28 46 21 33-1352 EA NOTI-FIRE-NET Web Server (Notifier NWS).....	1,941.55	24.13
28 46 21 33-1353 EA Wired Network Communications Module (Notifier NCM-W).....	827.69	24.13
28 46 21 33-1354 EA Fiber Optic Converter Module Mounting Kit (Notifier SMF-Kit).....	81.86	12.06
28 46 21 33-1355 FireWarden Addressable Fire Panels <small>(28 46 21 33-0982)</small>		
28 46 21 33-1356 EA 50 Point, Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW-50)	1,809.92	482.51
28 46 21 33-1357 EA Black, One SLC Loop, 120 VAC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100)	2,123.99	482.51
28 46 21 33-1358 EA Black, One DC Loop, 120 VAC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100C)	2,133.74	241.25
28 46 21 33-1359 EA Black, One SLC Loop, 240 VAC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100E)	2,133.74	241.25
28 46 21 33-1360 EA Red, One SLC Loop, 120 VAC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100R).....	2,133.74	241.25
28 46 21 33-1361 FireWarden Accessories <small>(28 46 21 33-0982)</small>		
28 46 21 33-1362 EA Intelligent Multicriteria Photo/Thermal Detector With Base (Notifier NP-A100).....	160.70	36.19
28 46 21 33-1363 EA Intelligent Addressable Photo/Thermal Detector With Base (Notifier NP-100T)	159.81	36.19
28 46 21 33-1364 FireWarden Devices <small>(28 46 21 33-0982)</small>		
28 46 21 33-1365 EA SLC Loop Powered Fault Isolator Module (Notifier N100-ISO).....	119.03	24.13
28 46 21 33-1366 EA Intelligent Addressable Control Module (Notifier NC-100)	140.26	24.13
28 46 21 33-1367 EA Intelligent Addressable Relay Module (Notifier NC-100R)	134.95	24.13
28 46 21 33-1368 EA Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector (Notifier ND-100)	285.60	36.19
28 46 21 33-1369 EA Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector With DPDT Relay (Notifier ND-100R)	341.47	36.19
28 46 21 33-1370 EA Two Zone Intelligent Addressable, Two Wire Detector Monitor Module (Notifier NDM-100).....	134.95	24.13
28 46 21 33-1371 EA Intelligent Addressable Thermal Detector With Base (Notifier NH-100).....	141.39	36.19
28 46 21 33-1372 EA Intelligent Addressable High Temperature Thermal Detector With Base (Notifier NH-100H)	141.39	36.19
28 46 21 33-1373 EA Intelligent Addressable Rate-Of-Rise Thermal Detector With Base (Notifier NH-100R)	141.39	36.19
28 46 21 33-1374 EA Intelligent Addressable Ionization Smoke Detector With Base (Notifier NI-100)	187.39	36.19
28 46 21 33-1375 EA Intelligent Addressable Monitor Module (Notifier NMM-100).....	117.26	24.13
28 46 21 33-1376 EA Intelligent Addressable Mini Monitor Module (Notifier NMM-100P).....	107.08	24.13
28 46 21 33-1377 EA Intelligent Addressable Manual Pull Station (Notifier NOT-BG12LX).....	156.63	24.13



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				28 46 21 33-1378 EA Intelligent Addressable Photoelectric Smoke Detector With Base (Notifier NP-100)	147.58	36.19
				28 46 21 33-1379 EA Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100)	174.77	24.13
				28 46 21 33-1380 EA Six Zone Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100-6)	603.85	24.13
28 46 21 33-1381				SFP-2402 And SFP-2404 2 And 4-Zone Control Panels And Accessories <small>(28 46 21 33-0982)</small>		
				28 46 21 33-1382 EA 120 VAC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402)	1,214.37	386.00
				28 46 21 33-1383 EA 120 VAC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404)	1,328.50	386.00
				28 46 21 33-1384 EA 240 VAC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFB-2402E)	928.59	120.63
				28 46 21 33-1385 EA 240 VAC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFB-2404E)	1,043.68	120.63
				28 46 21 33-1386 EA Class A Converter Module (Notifier CAC-4)	306.08	24.13
				28 46 21 33-1387 EA Optional Internal Dress Panel For SFB-2402 And SFB-2404 Only (Notifier DP-3-B)	103.89	14.48
				28 46 21 33-1388 EA Internal Dress Plate, Required For FM And ULC (Notifier DP-4X)	105.68	14.48
				28 46 21 33-1389 EA Remote Zone Annunciator (Notifier RZA-4X)	156.24	36.19
28 46 21 33-1390				SFP-5UD 5 Zone Control Panels And Accessories <small>(28 46 21 33-0982)</small>		
				28 46 21 33-1391 EA 120 VAC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFP-5UD)	1,845.31	482.51
				28 46 21 33-1392 EA 120 VAC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDC)	2,803.60	361.89
				28 46 21 33-1393 EA 240 VAC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDE)	1,852.71	241.25
				28 46 21 33-1394 EA Red, 120 VAC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDR)	1,852.71	241.25
				28 46 21 33-1395 EA Class A Converter Module (Notifier N-CAC-5X)	306.08	24.13
				28 46 21 33-1396 EA Red, Trim Ring For NFW2-100, NFW-50, SFB-5UD, SFB-10UD, RP-2001, RP-2002 Cabinet (Notifier TR-CE)	122.63	14.48
28 46 21 33-1397				SFP-10UD 10 Zone Control Panels And Accessories <small>(28 46 21 33-0982)</small>		
				28 46 21 33-1398 EA 120 VAC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDC)	3,460.08	482.51
				28 46 21 33-1399 EA 240 VAC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDE)	2,588.59	361.89
				28 46 21 33-1400 EA 120 VAC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFP-10UD)	2,093.03	482.51
				28 46 21 33-1401 EA Red, 120 VAC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDR)	3,071.10	482.51
				28 46 21 33-1402 EA Four Channel, Dual Line, Stand Alone Fire Alarm Communicator (Fire-Lite 411UDAC)	523.41	72.38
28 46 21 33-1403				Smoke Detectors <small>(28 46 21 33-0982)</small>		
				28 46 21 33-1404 EA Intelligent Addressable Beam Smoke Detector (Notifier FSB-200)	1,300.93	48.25
				28 46 21 33-1405 EA Intelligent Addressable Beam Smoke Detector With Remote Test Feature (Notifier FSB-200S)	1,479.36	48.25
				28 46 21 33-1406 EA Low Profile Intelligent Addressable Ionization Smoke Detector (Notifier FSI-851)	199.78	36.19
				28 46 21 33-1407 EA Intelligent Addressable Laser Smoke Detector (Notifier FSL-751)	328.95	36.19
				28 46 21 33-1408 EA Intelligent Addressable Laser Duct Smoke Detector (Notifier FSL-751D)	817.26	36.19
				28 46 21 33-1409 EA Low Profile Intelligent Addressable Photoelectric Smoke Detector (Notifier FSP-851)	163.51	36.19
				28 46 21 33-1410 EA Remote Test Capable, Low Profile Intelligent Addressable Photoelectric Smoke Detector (Notifier FSP-851R)	166.95	36.19
				28 46 21 33-1411 EA Intelligent Addressable Thermal Detector (Notifier FST-851)	136.96	36.19
				28 46 21 33-1412 EA Intelligent Addressable High Temperature Thermal Detector (Notifier FST-851H)	136.96	36.19
				28 46 21 33-1413 EA Intelligent Addressable Rate-Of-Rise Thermal Detector (Notifier FST-851R)	136.96	36.19
				28 46 21 33-1414 EA Remote Test Capable Intelligent Addressable Photo Detector (Notifier NP-100R)	150.89	36.19
				Note: For use with DNR(W) duct detector housing.		
				28 46 21 33-1415 EA Filters For Harsh Detector (Notifier RF-FTX)	18.27	
				28 46 21 33-1416 EA Key Activated Remote Test Station For Duct Smoke Detector (Notifier RTS151KEY)	121.46	24.13
28 46 21 33-1417				Pull Stations <small>(28 46 21 33-0982)</small>		
				28 46 21 33-1418 EA Trim Ring For NBG12 Series Pull Station (Notifier BG12TR)	25.71	4.83
				28 46 21 33-1419 EA One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2)	56.25	12.06
				28 46 21 33-1420 EA Red, One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2R)	56.25	12.06
				28 46 21 33-1421 EA Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1)	79.03	24.13
				28 46 21 33-1422 EA DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1F)	85.72	24.13
				28 46 21 33-1423 EA Terminal Switch, DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1FTS)	112.04	24.13
				28 46 21 33-1424 EA Red Body, Silver Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1R)	79.03	24.13
				28 46 21 33-1425 EA Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TS)	88.84	24.13
				28 46 21 33-1426 EA Standard "Local" Style Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TSL)	88.84	24.13
				28 46 21 33-1427 EA Terminal Strip, Red Body, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1TSR)	88.84	24.13
				28 46 21 33-1428 EA Red Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1)	84.83	24.13
				28 46 21 33-1429 EA Red Body, Silver Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1R)	90.63	24.13
				28 46 21 33-1430 EA Hazardous, Non-Hazardous, Weatherproof, Harsh Locations Fire Alarm Pull Station (Notifier HAZ-WP-PULL)	615.50	28.95
				28 46 21 33-1431 EA Red, Single Action Fire Alarm Pull Station (Notifier NBG-12S)	72.46	24.13
				28 46 21 33-1432 EA Red, Dual Action Fire Alarm Pull Station (Notifier NBG-12)	91.82	24.13
				28 46 21 33-1433 EA Red, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12L)	84.74	24.13
				28 46 21 33-1434 EA Red, Outdoor, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LOB)	186.18	28.95
				28 46 21 33-1435 EA Red, Presignal, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LPS)	112.49	24.13
				28 46 21 33-1436 EA Red, Agent Releasing, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LR)	99.55	24.13
				28 46 21 33-1437 EA Addressable Manual Dual Action Fire Alarm Pull Station (Notifier NBG-12LX)	157.51	24.13
				28 46 21 33-1438 EA Pull Station Trim Plate For New York City, For Use With All NBG Series Pull Stations (Notifier NY-PLATE)	39.09	4.83

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1439			Rate Compensation Heat Detectors (28 46 21 33-0982)		
28 46 21 33-1440	EA		135 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-135).....	150.24	36.19
28 46 21 33-1441	EA		194 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-194).....	150.24	36.19
28 46 21 33-1442			FM Series Door Releases (28 46 21 33-0982)		
28 46 21 33-1443	EA		1/2" Door Holder Spacer (Notifier FM900-50).....	25.10	7.23
28 46 21 33-1444	EA		3/4" Door Holder Spacer (Notifier FM900-75).....	25.10	7.23
28 46 21 33-1445	EA		1" Door Holder Spacer (Notifier FM900-100).....	25.10	7.23
28 46 21 33-1446	EA		Door Holder Extension Kit (Notifier FM900).....	26.42	7.23
28 46 21 33-1447	EA		90 Degree Door Holder Extension Kit (Notifier FM900-Z).....	26.87	7.23
28 46 21 33-1448	EA		Floor Mounted, 12VDC, 24VAC/DC Or 120VAC, Door Holder (Notifier FM980).....	179.43	36.19
28 46 21 33-1449	EA		Surface Mounted, 12VDC, 24VAC/DC Or 120VAC, Door Holder (Notifier FM996).....	157.31	36.19
28 46 21 33-1450	EA		Recessed Mounted, Concealed Wiring, 12VDC, 24VAC/DC Or 120VAC, Door Holder (Notifier FM998).....	157.31	36.19
28 46 21 33-1451			Multicriteria Fire Detector (28 46 21 33-0982)		
28 46 21 33-1452	EA		Intelligent Addressable Combination Multi-Criteria Fire/Carbon Monoxide Detector With Flashscan (Notifier FCO-851).....	268.66	36.19
28 46 21 33-1453	EA		Intelligent Addressable Multicriteria Fire Detector (Notifier FSC-851)..... Note: Detects fire, thermal, photo, CO and IR, with Flashscan.	249.03	36.19
28 46 21 33-1454	EA		Low Profile Intelligent Addressable Photoelectric Smoke Detector With Built-In 135°F Fixed Temperature Thermal Device (Notifier FSP-851T).....	165.16	36.19
28 46 21 33-1455			Modules (28 46 21 33-0982)		
28 46 21 33-1456	EA		Intelligent Addressable Dual Monitor/Dual Relay Module (Notifier FDRM-1).....	300.73	24.13
28 46 21 33-1457	EA		Addressable Firephone Control Module (Notifier FTM-1).....	180.29	24.13
28 46 21 33-1458			DH Series Door Releases (28 46 21 33-0982)		
28 46 21 33-1459	EA		Semi-Flush, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120FPC).....	156.24	36.19
28 46 21 33-1460	EA		Semi-Flush, Plated Brass, Electromagnetic Door Holder (Notifier DH24120FB).....	165.52	36.19
28 46 21 33-1461	EA		Semi-Flush, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120FD).....	174.98	36.19
28 46 21 33-1462	EA		Surface Mounted, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120SPC).....	172.30	36.19
28 46 21 33-1463	EA		Surface Mounted, Plated Brass, Electromagnetic Door Holder (Notifier DH24120SB).....	180.33	36.19
28 46 21 33-1464	EA		Surface Mounted, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120SPD).....	186.58	36.19
28 46 21 33-1465	EA		Recessed, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120WPC).....	156.24	36.19
28 46 21 33-1466	EA		Recessed, Plated Brass, Electromagnetic Door Holder (Notifier DH24120WB).....	165.16	36.19
28 46 21 33-1467	EA		Recessed, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120WD).....	174.98	36.19
28 46 21 33-1468	EA		Floor Mounted, Single Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC1).....	196.39	36.19
28 46 21 33-1469	EA		Floor Mounted, Single Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB1).....	208.88	36.19
28 46 21 33-1470	EA		Floor Mounted, Single Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD1).....	223.16	36.19
28 46 21 33-1471	EA		Floor Mounted, Double Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC2).....	226.72	36.19
28 46 21 33-1472	EA		Floor Mounted, Double Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB2).....	241.00	36.19
28 46 21 33-1473	EA		Floor Mounted, Double Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD2).....	258.84	36.19
28 46 21 33-1474	EA		.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE.5PC).....	18.21	4.83
28 46 21 33-1475	EA		.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE.5B).....	18.21	4.83
28 46 21 33-1476	EA		.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE.5D).....	19.64	4.83
28 46 21 33-1477	EA		1" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1PC).....	18.21	4.83
28 46 21 33-1478	EA		1" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1B).....	18.21	4.83
28 46 21 33-1479	EA		1" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1D).....	19.64	4.83
28 46 21 33-1480	EA		1.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5PC).....	19.29	4.83
28 46 21 33-1481	EA		1.5" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5APC).....	19.29	4.83
28 46 21 33-1482	EA		1.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1.5B).....	19.64	4.83
28 46 21 33-1483	EA		1.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1.5D).....	20.71	4.83
28 46 21 33-1484	EA		2" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2PC).....	20.71	4.83
28 46 21 33-1485	EA		2" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2APC).....	20.71	4.83
28 46 21 33-1486	EA		2" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE2B).....	21.25	4.83
28 46 21 33-1487	EA		2" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE2D).....	21.60	4.83
28 46 21 33-1488	EA		3" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE3PC).....	21.60	4.83
28 46 21 33-1489	EA		3" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE3B).....	22.68	4.83
28 46 21 33-1490	EA		3" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE3D).....	22.68	4.83
28 46 21 33-1491	EA		4" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4PC).....	23.03	4.83
28 46 21 33-1492	EA		4" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4APC).....	23.03	4.83
28 46 21 33-1493	EA		4" Adjustable Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE4AB).....	23.92	4.83
28 46 21 33-1494	EA		4" Adjustable Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE4AD).....	26.60	4.83
28 46 21 33-1495	EA		5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE5PC).....	23.92	4.83
28 46 21 33-1496	EA		5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE5B).....	25.00	4.83
28 46 21 33-1497	EA		5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE5D).....	26.60	4.83
28 46 21 33-1498	EA		Catch Plate, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHCP).....	25.72	7.23
28 46 21 33-1499	EA		Catch Plate, Plated Brass For Electromagnetic Door Holder (Notifier DHCPB).....	26.43	7.23
28 46 21 33-1500	EA		Catch Plate, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHCPD).....	28.75	7.23
28 46 21 33-1501	EA		Swivel Base, Powder Coated Chrome, For Electromagnetic Door Holder (Notifier DHSBPC).....	45.35	7.23
28 46 21 33-1502	EA		Swivel Base, Plated Brass, For Electromagnetic Door Holder (Notifier DHSBB).....	48.20	7.23



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1503 EA Swivel Base, Powder Coated Dark Bronze, For Electromagnetic Door Holder (Notifier DHSBD)	51.06	7.23
28 46 21 33-1504 EA Surface Mounted Backbox, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHBBPC).....	43.40	12.06
28 46 21 33-1505 EA Surface Mounted Backbox, Plated Brass For Electromagnetic Door Holder (Notifier DHBBB)	45.54	12.06
28 46 21 33-1506 EA Surface Mounted Backbox, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHBB).....	48.58	12.06
28 46 21 33-1507 EA Swivel Base Mounting Drill Fixture For Electromagnetic Door Holder (Notifier DHDF).....	240.88	
28 46 21 33-1508 EA Two Piece Extension Wrench (Notifier DHW).....	2.68	
28 46 21 33-1509 First Command (28 46 21 33-0982)		
28 46 21 33-1510 EA Black, 120 VAC, 50 Watts, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100)	4,920.40	603.14
28 46 21 33-1511 EA Black, 220-240 VAC, 50 Watts, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100E)	4,920.40	603.14
28 46 21 33-1512 EA Black, 120 VAC, 50 Watts, 25 VRMS Or 70 VRMS), Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DA)	1,304.63	48.25
28 46 21 33-1513 EA Black, 220-240 VAC, 50 Watts, 25 VRMS Or 70 VRMS), Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DAE).....	1,304.63	48.25
28 46 21 33-1514 EA Black, 120 VAC, 125 Watts, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DA).....	2,368.09	48.25
28 46 21 33-1515 EA Black, , 220-240 VAC, 125 Watts, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DAE).....	2,368.09	48.25
28 46 21 33-1516 EA 50 Watts, 25 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25 Volt).....	516.63	24.13
28 46 21 33-1517 EA 50 Watts, 70 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70 Volt).....	516.63	24.13
28 46 21 33-1518 EA Circuit Expander Module For NFC-50/125DA(E), Four Additional Class A/B Speaker Circuits (Notifier NFC-CE4)	352.48	24.13
28 46 21 33-1519 EA Circuit Expander Module For NFC-50/100(E), Six Additional Class A/B Speaker Circuits (Notifier NFC-CE6)	494.33	24.13
28 46 21 33-1520 EA Standalone Firefighter Telephone System (Notifier NFC-FFT).....	1,758.74	48.25
Note: Includes onboard SLC supports up to 24 monitor modules, built-in handset, black.		
28 46 21 33-1521 EA Local Operator Console (Notifier NFC-LOC)	1,701.64	48.25
Note: Includes built-in microphone, message and zone control switches, black.		
28 46 21 33-1522 EA Black, Remote Microphone (Notifier NFC-RM)	486.06	
28 46 21 33-1523 EA Remote Page Unit (Notifier NFC-RPU).....	1,442.02	48.25
Note: Includes built-in microphone, message control switches, black.		
28 46 21 33-1524 EA Remote Telephone Zone Module (Notifier NFC-RTZM)	651.35	24.13
28 46 21 33-1525 EA 70 V Conversion Module For NFC-50/100 (Notifier NFC-XRM-70V)	268.61	24.13
28 46 21 33-1526 EA Firefighters Phone Jack (Notifier N-FPJ)	123.32	7.23
28 46 21 33-1527 EA Thumbatch Option For NFC-LOC And NFC-RPU (Notifier THUMBLTCH)	35.89	7.23
28 46 21 33-1528 EA Black, Trim Ring For NFC-RPU Cabinet (Notifier TR-6-B).....	108.35	14.48
28 46 21 33-1529 LED Displays (28 46 21 33-0982)		
28 46 21 33-1530 EA 2.1" x 27" Programmable LED Indoor Display (Notifier ALPHA-215).....	1,173.10	28.95
28 46 21 33-1531 EA Instant And Integrated Emergency Notification System (Notifier LEDSIGN-GW)	1,986.42	38.60
28 46 21 33-1532 EA 4" x 45-1/2" Programmable LED Array, Mass Notification Device (Notifier MEGADOT)	2,039.95	38.60
28 46 21 33-1533 EA 8 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL8)	1,370.83	38.60
28 46 21 33-1534 EA 16 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL16)	2,084.56	38.60
28 46 21 33-1535 EA LED Sign, Instant And Integrated Emergency Notification System (Notifier OAX2-24V)	2,039.95	38.60
28 46 21 33-1536 Control Relays (28 46 21 33-0982)		
28 46 21 33-1537 EA Single SPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-101/CR)	54.46	12.06
28 46 21 33-1538 EA Single SPDT Relay With LED With Track Mounting Hardware (Notifier MR-101/T)	43.76	12.06
28 46 21 33-1539 EA Four Position SPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-104/CR)	141.03	24.13
28 46 21 33-1540 EA Four Position SPDT Relay With LED With Track Mounting Hardware (Notifier MR-104/T).....	86.58	12.06
28 46 21 33-1541 EA Four Position DSPDT Relay With LED With Track Mounting Hardware (Notifier MR-204/T)	102.64	12.06
28 46 21 33-1542 EA 24 VDC, 30 Amp Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-13C)	126.76	24.13
28 46 21 33-1543 EA 120 VAC, 30 Amp Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-14C).....	126.76	24.13
28 46 21 33-1544 EA Single DPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-201/CR).....	82.15	24.13
28 46 21 33-1545 EA Single DPDT Relay With LED With Track Mounting Hardware (Notifier MR-201/T).....	46.88	12.06
28 46 21 33-1546 EA Four Position DPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-204/CR).....	159.77	24.13
28 46 21 33-1547 EA 24 VDC/24 VAC/115 VAC, 10 Amp, Form C, Multi-Voltage Relay Module (Notifier PAM-1)	62.52	24.13
28 46 21 33-1548 EA 12/24 VDC, 7 Amp, Form C, Multi-Voltage Relay Module (Notifier PAM-2).....	62.52	24.13
28 46 21 33-1549 EA 9 To 40 VDC, 10 Amp, Form C, Multi-Voltage Relay Module (Notifier PAM-4).....	62.52	24.13
28 46 21 33-1550 Gamewell-FCI Fire Control Instruments (28 46 21 33-0982)		
28 46 21 33-1551 7100 Series And NetSOLO® (28 46 21 33-1550)		
28 46 21 33-1552 7100 Compact Analog Addressable Fire Alarm Control Panels (28 46 21 33-1551)		
28 46 21 33-1553 EA Enclosure With Metal Door (Gamewell-FCI 7100-ENCL-M)	799.89	289.51
28 46 21 33-1554 EA Basic Systems Kit, 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2)	3,284.27	482.51
28 46 21 33-1555 EA Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2D).....	3,541.36	482.51
28 46 21 33-1556 EA Basic Systems Kit, 2 Signaling Line Circuits (SLC), 240 VAC (Gamewell-FCI BK-7100-2-E)	3,284.27	482.51
28 46 21 33-1557 EA Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC), 240 VAC (Gamewell-FCI BK-7100-2D-E).....	3,541.36	482.51
28 46 21 33-1558 EA Replacement Board For 7100-1D (Gamewell-FCI BSM-7100-1).....	888.59	48.25
28 46 21 33-1559 EA Replacement Board For 7100-2 (Gamewell-FCI BSM-7100-1D).....	1,060.59	48.25
28 46 21 33-1560 EA Analog Loop Unit (Gamewell-FCI ALU)	1,060.59	48.25
28 46 21 33-1561 NetSOLO® Intelligent Network (28 46 21 33-1551)		

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1562	EA		Intelligent Network Interface Module, Fiber Optic (Gamewell-FCI INI-7100-FO) Note: Mounted in 7100 panel.	1,173.75	48.25
28 46 21 33-1563	EA		Intelligent Network Interface Module, Unshielded Twisted Pair (Gamewell-FCI INI-7100-UTP) Note: Mounted in 7100 panel.	937.48	48.25
28 46 21 33-1564			Components And Accessories <small>(28 46 21 33-1551)</small>		
28 46 21 33-1565	EA		Remote Serial Annunciator, LCD Display (Gamewell-FCI LCD-7100).....	584.75	36.19
28 46 21 33-1566	EA		Remote LED Driver Module, Outputs For Remote Panel Switches And 33 Remote LEDs (Gamewell-FCI LDM-7100).....	454.99	48.25
28 46 21 33-1567	EA		Fiber Optic Line Driver Module (Gamewell-FCI FLD-1).....	814.37	48.25
28 46 21 33-1568	EA		Class "A" Optional Module For Both Signaling Line Circuits (SLC) (Gamewell-FCI CAOM).....	342.74	48.25
28 46 21 33-1569	EA		Replacement Enclosure Box (Gamewell-FCI EN-7100).....	307.97	96.51
28 46 21 33-1570	EA		Serial Printer (Order RJAA To Db25 Connector Separately) (Gamewell-FCI P7200-TR-2).....	837.62	24.13
28 46 21 33-1571			E3 Series® Basic System <small>(28 46 21 33-1550)</small>		
28 46 21 33-1572	EA		Intelligent Loop Interface, Mother Board (Gamewell-FCI ILI-MB-E3).....	808.95	48.25
28 46 21 33-1573	EA		Intelligent Loop Interface, Supplemental (Gamewell-FCI ILI-S-E3).....	702.48	48.25
28 46 21 33-1574	EA		Intelligent Loop Interface, Mother Board, XP95 Protocol (Gamewell-FCI ILI95-MB-E3).....	808.95	48.25
28 46 21 33-1575	EA		Intelligent Loop Interface, Supplemental, XP95 Protocol (Gamewell-FCI ILI95-S-E3).....	702.48	48.25
28 46 21 33-1576	EA		LCD Keypad Display (Gamewell-FCI LCD-E3).....	507.63	48.25
28 46 21 33-1577	EA		Power Supply Module (Gamewell-FCI PM-9).....	657.62	48.25
28 46 21 33-1578	EA		Transponder 9 Ampere Power Supply (Gamewell-FCI PM-9 INX).....	557.18	48.25
28 46 21 33-1579	EA		Power Supply And Charger, 120/220 VAC (Gamewell-FCI PM-9G 9A).....	539.24	24.13
28 46 21 33-1580	EA		Digital Alarm Communication Transmitter (Gamewell-FCI DACT-E3).....	327.21	48.25
28 46 21 33-1581	EA		Network Repeater, Fiber Optic (Gamewell-FCI RPT-E3-FO).....	835.96	48.25
28 46 21 33-1582	EA		Network Repeater, Unshielded Twisted Pair (Gamewell-FCI RPT-E3-UTP).....	704.33	48.25
28 46 21 33-1583	EA		Local Operating Console (Gamewell-FCI 1100-0455).....	472.44	36.19
28 46 21 33-1584	EA		Network Graphic Annunciator (Gamewell-FCI 1100-0505).....	1,482.43	36.19
28 46 21 33-1585	EA		70.7 VRMS Audio Output Series Amplifier Module (Gamewell-FCI AM-50-70).....	605.36	48.25
28 46 21 33-1586	EA		INI-VGE-UTP Classic Enabled Voice Gateway Module (Gamewell-FCI 1100-1326).....	1,795.25	48.25
28 46 21 33-1587	EA		8-1/4" Wide x 10" High x 4-1/2" Deep Cabinet (Gamewell-FCI E3BB-BAA1).....	457.70	96.51
28 46 21 33-1588	EA		C Size, Black, Command Center Enclosure (Gamewell-FCI E3BB-BC/INCC).....	349.77	96.51
28 46 21 33-1589	EA		Double Size, Blank, Inner Door Panel (Gamewell-FCI E3-BP).....	78.23	24.13
28 46 21 33-1590	EA		Programmable Switch Module (Gamewell-FCI ASM-16).....	431.47	48.25
28 46 21 33-1591	EA		LED Driver module (Gamewell-FCI ANU-48).....	431.47	48.25
28 46 21 33-1592	EA		Network Graphic Annunciator (Gamewell-FCI NGA).....	1,245.13	36.19
28 46 21 33-1593			Addressable Devices, Module, Pulls And Accessories <small>(28 46 21 33-1550)</small>		
28 46 21 33-1594			Velociti® Series Sensors And Bases <small>(28 46 21 33-1593)</small>		
28 46 21 33-1595	EA		Analog Addressable Plug-In Ionization Smoke Sensor (Gamewell-FCI ASD-IL2F).....	146.61	36.19
28 46 21 33-1596	EA		Analog Addressable Plug-In Photoelectric Smoke Sensor (Gamewell-FCI ASD-PL2F).....	149.33	36.19
28 46 21 33-1597	EA		Analog Addressable Plug-In Photoelectric Smoke Sensor With 135 Degree F Fixed Temperature Thermal Sensing (Gamewell-FCI ASD-PTL2F).....	157.47	36.19
28 46 21 33-1598	EA		Addressable Plug-In Thermal Sensor, 15 Degree F Rate Of Rise, 135 Degree F (Gamewell-FCI ATD-RL2F).....	124.88	36.19
28 46 21 33-1599	EA		Addressable Plug-In Thermal Sensor, 190 Degree F (Gamewell-FCI ATD-HL2F).....	129.41	36.19
28 46 21 33-1600	EA		Addressable Plug-In Thermal Sensor, 135 Degree F (Gamewell-FCI ATD-L2F).....	124.88	36.19
28 46 21 33-1601	EA		Addressable Plug-In Multi-Criteria Analog Sensor (Gamewell-FCI MCS-ACCLIMATE2F).....	176.48	36.19
28 46 21 33-1602	EA		Analog Addressable Laser Smoke Sensor, Low Profile (Gamewell-FCI ASD-LS).....	366.58	36.19
28 46 21 33-1603	EA		Analog Addressable Low Flow Photoelectric Smoke Duct Detector Without Relay (Gamewell-FCI ADPF).....	324.31	60.32
28 46 21 33-1604	EA		Analog Addressable Low Flow Photoelectric Smoke Duct Detector With Relay (Gamewell-FCI ADPRF).....	360.52	60.32
28 46 21 33-1605	EA		Replacement Duct Detector Board (Gamewell-FCI ADP-F-SB).....	190.33	60.32
28 46 21 33-1606	EA		Flanged Mounting Base, For Use With Analog Sensor Or Velociti Sensors (Gamewell-FCI ADB-FLF).....	38.61	12.06
28 46 21 33-1607	EA		Harsh Environment Analog Addressable Photoelectric Smoke Sensor (Gamewell-FCI ASD-FILTREX-F).....	393.74	36.19
28 46 21 33-1608	EA		Flanged Mounting Base, For Use With ASD-FILTREX Or ASD-FILTREX-F (Gamewell-FCI ADB-FILTREXF).....	80.71	12.06
28 46 21 33-1609	EA		Addressable Single-Ended Reflected Beam Smoke Sensor (Gamewell-FCI ABD-2F).....	1,366.82	72.38
28 46 21 33-1610			Velociti® Series Modules And Pull Station <small>(28 46 21 33-1593)</small>		
28 46 21 33-1611	EA		Style "B", Class "B" Addressable Monitor Module (Gamewell-FCI AMM-2F).....	105.73	24.13
28 46 21 33-1612	EA		Dual Style "B", Class "B" Addressable Monitor Module (Gamewell-FCI AMM-2IF).....	163.22	24.13
28 46 21 33-1613	EA		Style "D", Class "A" Addressable Monitor Module (Gamewell-FCI AMM-4F).....	114.79	24.13
28 46 21 33-1614	EA		Subloop Style "D", Class "A" Addressable Monitor Module (Gamewell-FCI AMM-4SF).....	156.88	24.13
28 46 21 33-1615	EA		Addressable Output Relay Control Module (Gamewell-FCI AOM-2RF).....	132.89	24.13
28 46 21 33-1616	EA		Addressable Output Supervised Module (Gamewell-FCI AOM-2SF).....	137.42	24.13
28 46 21 33-1617	EA		Addressable Double Action Station, With AMM-2SF Mini-Mod (Gamewell-FCI MS-7AF).....	199.25	48.25
28 46 21 33-1618	EA		Addressable Single Action Pull Station (Gamewell-FCI MS-7ASF).....	141.49	24.13
28 46 21 33-1619	EA		Telephone Filters (Gamewell-FCI AOM-TEL-FL).....	23.23	4.83
28 46 21 33-1620			Components And Accessories <small>(28 46 21 33-1593)</small>		
28 46 21 33-1621	EA		Remote LED Annunciator Alarm (Gamewell-FCI RA400Z)..... Note: Mounts on single gang box.	61.23	19.30
28 46 21 33-1622	EA		Up To 2' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-1.5).....	30.62	9.65
28 46 21 33-1623	EA		>2' To 4' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-3).....	32.43	9.65
28 46 21 33-1624	EA		>4' To 8' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-5).....	39.07	12.06
28 46 21 33-1625	EA		>8' To 10' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-10).....	60.63	14.48



		MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1626	EA				Remote Test Station With LED Alarm And Magnet Test Switch (Gamewell-FCI RTS451)..... Note: Mounts on single gang box.	89.29	19.30
28 46 21 33-1627					Fixed And Rate of Rise Heat Detectors (28 46 21 33-1593)		
28 46 21 33-1628	EA				135 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5601P)	87.77	36.19
28 46 21 33-1629	EA				194 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5602).....	87.77	36.19
28 46 21 33-1630	EA				135 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5603)	87.77	36.19
28 46 21 33-1631	EA				194 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5604)	87.77	36.19
28 46 21 33-1632					NAC Expander/Power Supply (28 46 21 33-1593)		
28 46 21 33-1633	EA				FireForce 8 NAC Expander/Power Supply, 12/24 VDC, 8 Amp, 4 Notification Appliance Circuits, Built-in Synchronization Protocols For Gamewell, Wheelock, Gentex, Faraday, And System Sensor (Gamewell-FCI FF8).....	1,423.78	386.00
28 46 21 33-1634	EA				6A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-6).....	1,251.79	386.00
28 46 21 33-1635	EA				9A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-9).....	1,337.79	386.00
28 46 21 33-1636					Batteries And Accessories (28 46 21 33-1550)		
28 46 21 33-1637	EA				B-17R, 12 VDC, 17 Amp Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2010A)	203.95	24.13
28 46 21 33-1638	EA				B-55R, 12 VDC, 55 Amp Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2710A)	499.06	24.13
28 46 21 33-1639	EA				B-7R, 12 VDC, 7 Amp Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2311A)	113.43	24.13
28 46 21 33-1640	EA				BC-1, Battery Cabinet, Beige (Gamewell-FCI 1100-0653)	260.36	48.25
28 46 21 33-1641	EA				BC-1R, Battery Cabinet, Red (Gamewell-FCI 1100-0654)	260.36	48.25
28 46 21 33-1642	EA				12"H x 12"W x 24"L Vented Steel Battery Cabinet With Hinged Key Lockable Cover (Gamewell-FCI GW70970).....	234.11	48.25
28 46 21 33-1643					Electronic Door Holders (28 46 21 33-1550)		
					Note: Rixson products.		
28 46 21 33-1644	EA				XK-996, Door Holder Extender Kit, 1-1/2" Spacer (Gamewell-FCI 140-30000).....	36.26	4.83
28 46 21 33-1645	EA				FM-980, Floor Mount Door Holder, 12 VDC, 24 VAC/DC Or 120 VAC (Gamewell-FCI 140-90000).....	289.64	36.19
28 46 21 33-1646	EA				FM-981, Floor Mount Holder For Double Doors, 12 VDC, 24 VAC/DC Or 120 VAC (Gamewell-FCI 140-90001)	388.31	36.19
28 46 21 33-1647	EA				FM-990, Low Profile Mount Door Holder, 12 VDC, 24 VAC/DC Or 120 VAC (Gamewell-FCI 140-90002)	191.33	36.19
28 46 21 33-1648	EA				FM-996, Surface Mount Door Holder, 12 VDC, 24 VAC/DC Or 120 VAC (Gamewell-FCI 140-90003)	183.18	36.19
28 46 21 33-1649	EA				FM-997 Recessed Mount Door Holder, 12 VDC, 24 VAC/DC Or 120 VAC (Gamewell-FCI 140-90004).....	191.33	36.19
28 46 21 33-1650	EA				FM-998, Recessed Mount Door Holder With Concealed Wiring, 12 VDC, 24 VAC/DC Or 120 VAC (Gamewell-FCI 140-90005)	190.97	36.19
28 46 21 33-1651					SpectrAlert® Advance Wall Mount 2-Wire Horn/Strobes (28 46 21 33-1550)		
					See CSI section 28 46 21 33-1840 for devices.		
28 46 21 33-1652					SpectrAlert® Advance Accessories (28 46 21 33-1550)		
					See CSI section 28 46 21 33-1840 for backboxes, 28 46 21 33-2107 for backboxes.		
28 46 21 33-1653					Fire Alarm Programming (28 46 21 33-1550)		
					Note: For device replacement projects only. Do not use these tasks on projects where a fire alarm panel is replaced.		
28 46 21 33-1654	EA				Program And Test Up To 5 Fire Alarm Devices.....	500.00	
28 46 21 33-1655	EA				Program And Test >5 To 20 Fire Alarm Devices	1,000.00	
28 46 21 33-1656	EA				Program And Test >20 To 50 Fire Alarm Devices	2,000.00	
28 46 21 33-1657					Fire-Lite Fire Alarm (28 46 21 33-0981)		
28 46 21 33-1658					Addressable Control Panels (28 46 21 33-1657)		
28 46 21 33-1659	EA				25 Point Intelligent Control (Fire Lite MS-25).....	1,486.03	482.51
28 46 21 33-1660	EA				50 Point Intelligent Control (Fire Lite MS-9050UD).....	1,612.80	482.51
28 46 21 33-1661	EA				198-Point Intelligent Control (Fire Lite MS-9200UDLS)	2,290.70	482.51
28 46 21 33-1662	EA				636-Point Intelligent Control (Fire Lite MS-9600LS)	3,329.12	482.51
28 46 21 33-1663	EA				636-Point Intelligent Control (Fire Lite MS-9600UDLS)	3,208.17	482.51
28 46 21 33-1664	EA				IP And 4G Cellur Fire Alarm Communicator For Fire Alarm Control Panel (Fire-Lite IPGSM-4G).....	385.71	
28 46 21 33-1665					Silent Knight Fire Alarm (28 46 21 33-0981)		
28 46 21 33-1666	EA				Addressable Fire Alarm Control Panel With Integrated Emergency Communication System (Silent Knight 5820XL-EVS)	3,318.80	241.25
28 46 21 33-1667	EA				Supervised Remote Command Unit (Silent Knight EVS-RCU).....	1,392.80	144.75
28 46 21 33-1668	EA				50 Watt Amplifier (Silent Knight EVS-50W)	974.93	96.51
28 46 21 33-1669	EA				125 Watt Amplifier (Silent Knight EVS-125W)	1,710.02	96.51
28 46 21 33-1670	EA				Voice Evacuation System (Silent Knight SKE-450)	1,637.16	96.51
28 46 21 33-1671	EA				Fire Fighters Telephone (Silent Knight SK-FFT).....	1,363.94	96.51
28 46 21 33-1672	EA				Multi-Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5820XL)	1,412.31	144.75
28 46 21 33-1673	EA				Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5808)	1,046.48	96.51
28 46 21 33-1674	EA				Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5700)	807.81	96.51
28 46 21 33-1675	EA				Hybrid Conventional Fire Alarm Control/Communicator System (Silent Knight 5600).....	701.17	96.51
28 46 21 33-1676	EA				Combination Fire And CO Detector (Silent Knight SK-FIRE-CO)	225.59	36.19
28 46 21 33-1677	EA				Photoelectric Detector (Silent Knight SK-PHOTO)	134.06	36.19
28 46 21 33-1678	EA				Photoelectric Thermal Detector (Silent Knight SK-PHOTO-T).....	140.43	36.19
28 46 21 33-1679	EA				Ionization Smoke Detector (Silent Knight SK-ION).....	141.14	36.19
28 46 21 33-1680	EA				135 Degree Fixed Temperature Detector (Silent Knight SK-HEAT)	124.68	36.19
28 46 21 33-1681	EA				190 Degree Fixed Temperature Detector (Silent Knight SK-HEAT-HT)	130.50	36.19

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1682	EA		135 Degree Fixed Temperature Rate-of-Rise Detector (Silent Knight SK-HEAT-ROR)	132.64	36.19
28 46 21 33-1683	EA		Sounder Base (Silent Knight B200SR)	76.57	12.06
28 46 21 33-1684	EA		Intelligent Sounder Base (Silent Knight B200S).....	80.83	12.06
28 46 21 33-1685	EA		Isolator Base (Silent Knight B224BI).....	64.54	12.06
28 46 21 33-1686	EA		Relay Base (Silent Knight B224RB).....	65.24	12.06
28 46 21 33-1687	EA		Multi-Criteria Photoelectric Detector With Thermal Sensing (Silent Knight SK-ACCLIMATE)	143.37	36.19
28 46 21 33-1688	EA		Photoelectric Duct Detector (Silent Knight SK-DUCT)	222.93	36.19
28 46 21 33-1689	EA		Single-Ended Reflected Beam Smoke Detector (Silent Knight SK-BEAM).....	754.12	36.19
28 46 21 33-1690	EA		Single-Ended Reflected Beam Smoke Detector (Silent Knight SK-BEAM-T)	859.50	36.19
28 46 21 33-1691	EA		Dual Monitor Module (Silent Knight SK-MONITOR-2)	167.94	36.19
28 46 21 33-1692	EA		Supervised Control Module (Silent Knight SK-CONTROL).....	142.00	36.19
28 46 21 33-1693	EA		Six Circuit Supervised Control Module (Silent Knight SK-CONTROL-6).....	451.97	48.25
28 46 21 33-1694	EA		Relay Control Module (Silent Knight SK-RELAY)	119.24	24.13
28 46 21 33-1695	EA		Six Relay Control Module (Silent Knight SK-RELAY-6)	437.48	48.25
28 46 21 33-1696	EA		Zone Interface Module (Silent Knight SK-ZONE)	144.73	36.19
28 46 21 33-1697	EA		Six Zone Interface Module (Silent Knight SK-ZONE-6).....	520.42	48.25
28 46 21 33-1698	EA		Monitor Module (Silent Knight SK-MONITOR).....	126.25	36.19
28 46 21 33-1699	EA		10 Input Monitor Module (Silent Knight SK-MON-10)	504.63	48.25
28 46 21 33-1700	EA		Monitor Module (Silent Knight SK-MINIMON).....	118.46	36.19
28 46 21 33-1701	EA		Fault Isolator Module (Silent Knight SK-ISO).....	130.50	36.19
28 46 21 33-1702	EA		Addressable Heat Sensor (Silent Knight SD505-AHS)	128.38	36.19
28 46 21 33-1703	EA		Analog Ionization Smoke Detector (Silent Knight SD505-AIS)	138.42	36.19
28 46 21 33-1704	EA		Addressable Photoelectric Smoke Detector (Silent Knight SD505-APS)	130.50	36.19
28 46 21 33-1705	EA		6" Addressable Sounder Base (Silent Knight SD505-6SB).....	92.89	12.06
28 46 21 33-1706	EA		6" Addressable Relay Base (Silent Knight SD505-6RB).....	87.92	12.06
28 46 21 33-1707	EA		6" Isolator Base (Silent Knight SD505-6IB).....	80.13	12.06
28 46 21 33-1708	EA		Addressable Input Module (Silent Knight SD500-AIM)	129.80	36.19
28 46 21 33-1709	EA		Addressable Notification Module (Silent Knight SD500-ANM).....	157.01	36.19
28 46 21 33-1710	EA		Addressable Relay Module (Silent Knight SD500-ARM).....	142.00	36.19
28 46 21 33-1711	EA		SLC Annunciator Driver Module (Silent Knight SD500-LED)	527.86	72.38
28 46 21 33-1712	EA		Loop Isolation Module (Silent Knight SD500-LIM)	134.75	36.19
28 46 21 33-1713	EA		Addressable Mini Input Module (Silent Knight SD500-MIM)	104.25	24.13
28 46 21 33-1714	EA		Single Action Addressable Pull Station (Silent Knight SD500-PS).....	131.52	24.13
28 46 21 33-1715	EA		Dual Action Addressable Pull Station (Silent Knight SD500-PSDA)	126.06	24.13
28 46 21 33-1716	EA		Back Box (Silent Knight SK-PSSMBB)	61.46	19.30
28 46 21 33-1717	EA		Smoke Detector Module (Silent Knight SD500-SDM)	148.82	36.19
28 46 21 33-1718	EA		Addressable Smoke 4" Detector Base (Silent Knight SD505-4AB).....	37.09	12.06
28 46 21 33-1719	EA		Addressable Smoke 6" Detector Base (Silent Knight SD505-6AB).....	37.09	12.06
28 46 21 33-1720	EA		Addressable Duct Housing (Silent Knight SD505-DUCT)	232.26	36.19
28 46 21 33-1721	EA		Addressable Duct Housing With Built-In Relay (Silent Knight SD505-DUCTR)	297.54	36.19
28 46 21 33-1722	EA		Addressable Duct Detector Test Switch (Silent Knight SD505-DTS).....	133.34	36.19
28 46 21 33-1723	EA		Intelligent Power Module (Silent Knight 5895XL).....	757.78	96.51
28 46 21 33-1724	EA		Addressable Power Supply (Silent Knight 5496).....	530.49	72.38
28 46 21 33-1725	EA		Relay Interface Board (Silent Knight 5883).....	201.46	24.13
28 46 21 33-1726	EA		Remote LED Annunciator (Silent Knight 5865-3).....	413.78	48.25
28 46 21 33-1727	EA		Remote LED Annunciator (Silent Knight 5865-4).....	466.17	48.25
28 46 21 33-1728	EA		Remote LCD Annunciator (Silent Knight SK-5860).....	452.81	72.38
28 46 21 33-1729	EA		Serial/Parallel Printer Interface (Silent Knight 5824).....	284.07	24.13
28 46 21 33-1730	EA		LED Input/Output Module (Silent Knight / IntelliKnight 5880).....	336.99	36.19
28 46 21 33-1731	EA		Addressable Pull Station (Silent Knight SK-Pull-DA/SA).....	126.06	24.13
28 46 21 33-1732	EA		Digital Fire Communicator with Cabinet (Silent Knight SK-5104)	434.37	72.38
28 46 21 33-1733	EA		Communicator (Silent Knight IPGSM-4G).....	617.94	48.25
28 46 21 33-1734	EA		Ten Zone Conventional Fire Alarm Control Panel (Silent Knight SK-5208)	985.33	96.51
28 46 21 33-1735	EA		10 Zone Expander (Silent Knight SK-5217)	274.75	24.13
28 46 21 33-1736	EA		Remote Annunciator (Silent Knight SK-5235).....	285.70	48.25
28 46 21 33-1737	EA		Status Display Module (Silent Knight 5280).....	87.24	24.13
28 46 21 33-1738	EA		Serial/Parallel Module (Silent Knight 5824).....	332.33	48.25
28 46 21 33-1739	EA		Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4).....	578.74	96.51
28 46 21 33-1740	EA		Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4E).....	589.27	96.51
28 46 21 33-1741	EA		Dress Panel (Silent Knight SK-DP2/4).....	112.04	24.13
28 46 21 33-1742	EA		Class A Convertor (Silent Knight SK-CAC4).....	280.22	36.19
28 46 21 33-1743	EA		Transmitter Module (Silent Knight SK-4XTM).....	155.65	36.19
28 46 21 33-1744	EA		LED Interface Module (Silent Knight SK-4XLM).....	144.73	36.19
28 46 21 33-1745	EA		110 VAC Transformer, 3-6A (Silent Knight SK-XRM24)	142.44	24.13
28 46 21 33-1746	EA		Remote Annunciator (Silent Knight SK-RZA4).....	144.73	36.19
28 46 21 33-1747	EA		Zone Relay Module (Silent Knight SK-4XZM).....	154.28	36.19
28 46 21 33-1748	EA		Two Zone Conventional Fire Alarm Control Panel (Silent Knight SK-2).....	506.32	96.51
28 46 21 33-1749	EA		Remote Battery Box Accessory Cabinet (Silent Knight RBB)	126.06	24.13
28 46 21 33-1750	EA		Manual Pull Station (single action) (Silent Knight PS-SATK)	74.68	24.13
28 46 21 33-1751	EA		Manual Pull Station (dual action) (Silent Knight PS-DATK)	79.96	24.13
28 46 21 33-1752	EA		Manual Pull Station (dual action) (Silent Knight PS-DA)	78.47	24.13
28 46 21 33-1753	EA		Dual Action Manual Pull Station, Hex Key (Silent Knight PS-DAH)	71.24	24.13
28 46 21 33-1754	EA		Dual Action Listed Outdoor Manual Pull Station With Black Box (Silent Knight PS-DALOB).....	148.00	28.95
28 46 21 33-1755	EA		6 Amp, 24 VDC, Distributed Power Module (with cabinet) (Silent Knight SK-5495).....	500.21	72.38
28 46 21 33-1756	EA		9 Amp, 24 VDC, Distributed Power Module (with cabinet) (Silent Knight SK-5499).....	558.14	72.38
28 46 21 33-1757	EA		Detector (Silent Knight IDP-PhotoR).....	182.86	36.19
28 46 21 33-1758	EA		Monitoring Module (Silent Knight IDP).....	182.97	36.19
28 46 21 33-1759	EA		Cabinet (Silent Knight SK-5207).....	261.05	72.38
28 46 21 33-1760	EA		Innovair IDP-Product (Silent Knight Innovair IDP-Pduct)	339.00	24.13
28 46 21 33-1761	EA		I/O Input-Output Module (Silent Knight SK-2880)	455.30	24.13
28 46 21 33-1762	EA		Remote Annunciator (Silent Knight RA-2000).....	1,307.75	72.38



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1763 EA Power Supply (Silent Knight 5195/96)	804.20	24.13
28 46 21 33-1764 EA 8 Zone Expander (Silent Knight SK-5210)	629.75	24.13
28 46 21 33-1765 EA LCD Remote Annunciator (Silent Knight SK-5230)	272.37	48.25
28 46 21 33-1766 EA Ionization Smoke Detector (Silent Knight SK-ION)	141.14	36.19
28 46 21 33-1767 EA Addressable Relay Module (Silent Knight IDP-Relay)	159.60	36.19
28 46 21 33-1768 EA Telephone Line Monitor (Silent Knight SK-7150)	100.59	24.13
28 46 21 33-1769 EA Serial Driver Board (Silent Knight SK-2884)	177.34	24.13
28 46 21 33-1770 EA Smoke Detector Base (Silent Knight IDP-6AB)	53.21	12.06
28 46 21 33-1771 EA Mini Input Module (Silent Knight IDP-MINIMON)	135.47	24.13
28 46 21 33-1772 EA Status Display Module (Silent Knight SK-4180)	466.93	24.13
28 46 21 33-1773 EA 8-Channel Digital Communicator (Silent Knight SK-1420)	280.85	24.13
28 46 21 33-1774 EA Serial Parallel Module (Silent Knight SK-4824)	257.59	24.13
28 46 21 33-1775 EA Power Supply (Silent Knight SK-5197 / SK-5198)	920.50	24.13
28 46 21 33-1776 EA 4-Zone Fire Alarm Control Panel, Complete (Silent Knight SK-5204)	1,588.60	96.51
28 46 21 33-1777 EA Intelligent Ionization Smoke Detector (Silent Knight IDP-ION)	188.68	36.19
28 46 21 33-1778 EA Intelligent Photoelectric Smoke Detector (Silent Knight IDP-Photo)	159.60	36.19
28 46 21 33-1779 EA Fire Slave Communicator Dialer (Silent Knight SK-5128)	301.85	24.13
28 46 21 33-1780 EA Intelligent Power Module (with cabinet) (Silent Knight SK-5496)	530.49	72.38
28 46 21 33-1781 Alerton <small>(28 46 21 33)</small>		
28 46 21 33-1782 EA UL Listed Surge Protector In CHS-M3 Or CPU2-640 Chassis (Alerton ESD-100)	433.80	7.23
28 46 21 33-1783 Cooper Fire Alarm <small>(28 46 21 33)</small>		
28 46 21 33-1784 EA Single Circuit Class A / Multiple B, 12 Or 24 VDC, Sync Module (Cooper DSM-12/24-R)	155.31	24.13
28 46 21 33-1785 EA Red Lens, 21 Joules, 24 VDC, Class I, Div 1, Groups C, D, NEMA 4X And 6, Strobe (Cooper EP109205-001)	2,538.15	41.01
28 46 21 33-1786 EA Red, 100 dB, 24 VDC, Class I, Div 1, Groups C, D, NEMA 4X, Multitone Horn (Cooper EP109206-002)	3,341.09	41.01
28 46 21 33-1787 EA Red Lens, 5 Joules, 24 VDC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-001)	1,235.80	48.25
28 46 21 33-1788 EA Clear Lens, 5 Joules, 24 VDC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-002)	1,242.94	48.25
28 46 21 33-1789 EA Amber Lens, 5 Joules, 110 VAC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-007)	1,242.94	48.25
28 46 21 33-1790 EA Red Lens, 10 Joules, 24 VDC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-001)	927.11	48.25
28 46 21 33-1791 EA Amber Lens, 10 Joules, 120 VAC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-003)	927.11	48.25
28 46 21 33-1792 EA Red Lens, 10 Joules, 120 VAC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-004)	927.11	48.25
28 46 21 33-1793 EA Amber Lens, 15 Joules, 120 VAC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-005)	1,242.94	48.25
28 46 21 33-1794 EA Amber Lens, 15 Joules, 120 VAC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-006)	1,242.94	48.25
28 46 21 33-1795 EA Red Lens, 15 Joules, 120 VAC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-007)	1,242.94	48.25
28 46 21 33-1796 EA Red Lens, 15 Joules, 120 VAC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-008)	1,242.94	48.25
28 46 21 33-1797 EA Red Lens, 15 Joules, 24 VDC, Wire Guard, Blackstrap, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109203-002)	1,242.94	48.25
28 46 21 33-1798 EA Red Lens, 21 Joules, 24 VDC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-001)	1,427.61	48.25
28 46 21 33-1799 EA Red Lens, 21 Joules, 24 VDC, Black Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-003)	1,327.69	48.25
28 46 21 33-1800 EA Amber Lens, 21 Joules, 110 VAC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-005)	1,327.69	48.25
28 46 21 33-1801 EA Red Lens, 21 Joules, 110 VAC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-006)	1,327.69	48.25
28 46 21 33-1802 Light Engineered Displays Message Boards <small>(28 46 21 33)</small>		
28 46 21 33-1803 EA Two Message Sign, "Announcement" And "Evacuate" (LED SP-2/MNS)	454.91	28.95
28 46 21 33-1804 EA Four Message Sign, "Fire", "Weather", "Announcement", "E Voltuate" (LED SP-4)	553.05	28.95
28 46 21 33-1805 STI Fire Alarm <small>(28 46 21 33)</small>		
28 46 21 33-1806 EA Pull Station Polycarbonate Cover, Semi Flush With Horn (STI-1100)	108.20	14.48
Note: Include 9 VDC self contained battery.		
28 46 21 33-1807 EA Surface Mounted, Manual Pull Station Polycarbonate Cover With Horn (STI-1130)	142.25	14.48
28 46 21 33-1808 EA Flush Mounted, Manual Pull Station Polycarbonate Cover (STI-1200)	96.19	14.48
28 46 21 33-1809 EA Surface Mounted, Horn Strobe Polycarbonate Cover (STI-1210D)	87.34	14.48
Note: For surface mounted horn strobes.		
28 46 21 33-1810 EA Flush Mounted, Horn Strobe Polycarbonate Cover (STI-1210E)	77.61	14.48
28 46 21 33-1811 EA Strobe Damage Stopper And Open Backbox With Conduit Knockout (STI-1221D)	87.34	14.48
Note: For surface mounted strobe.		
28 46 21 33-1812 EA Strobe Damage Stopper And Open Backbox, Semi Flush (STI-1221E)	87.14	14.48
28 46 21 33-1813 EA NEMA 4X Rated Polycarbonate Dome Cover (STI-1229)	177.05	14.48
28 46 21 33-1814 EA Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-1230)	115.65	14.48
Note: For surface mounted pull stations.		
28 46 21 33-1815 EA Backplate For Polycarbonate Cover (STI-1280)	53.71	14.48
28 46 21 33-1816 EA Conduit Gasket For Polycarbonate Cover (STI-3003)	38.09	14.48
28 46 21 33-1817 EA Conduit Spacer For Surface Mounted Polycarbonate Cover (STI-3100)	63.52	14.48

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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28 46 21 33-1818	EA	Weather Resistant, Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-3150).....	119.95	14.48
28 46 21 33-1819	EA	8.5" x 6.5" x 4.6", Thumb Lock, Lockable Enclosure (STI-7511A)	106.34	14.48
28 46 21 33-1820	EA	24.7" x 19.7" x 7.3", Key Lock, Lockable Enclosure (STI-7550).....	552.65	14.48
28 46 21 33-1821	EA	Flush Mounted, Smoke Detector Polycarbonate Cover (STI-8100)	86.05	14.48
28 46 21 33-1822	EA	Flush Mounted, Low Profile, Smoke Detector Steel Wire Cover (STI-9601).....	79.36	14.48
28 46 21 33-1823	EA	Surface Mounted, Low Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9602)	73.11	14.48
28 46 21 33-1824	EA	Flush Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9604)	79.36	14.48
28 46 21 33-1825	EA	Surface Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9605).....	73.11	14.48
28 46 21 33-1826	EA	Flush Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9609)	79.36	14.48
28 46 21 33-1827	EA	Surface Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9610).....	73.11	14.48
28 46 21 33-1828	EA	Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9625)	132.44	14.48
28 46 21 33-1829	EA	White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705).....	67.31	14.48
28 46 21 33-1830	EA	Red, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705-R)	67.31	14.48
28 46 21 33-1831	EA	Flush Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9706)	102.11	14.48
28 46 21 33-1832	EA	Surface Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9707).....	102.11	14.48
28 46 21 33-1833	EA	White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708).....	73.56	14.48
28 46 21 33-1834	EA	Red, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708-R).....	73.56	14.48
28 46 21 33-1835	EA	White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9711).....	67.31	14.48
28 46 21 33-1836	EA	Flush Mounted, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9713).....	73.11	14.48
28 46 21 33-1837	EA	White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9714).....	73.56	14.48
28 46 21 33-1838	EA	Yellow, "High Threat", Push Button Station (STI SS-2201)	75.82	7.23
28 46 21 33-1839	EA	Gasket Kit For STI Covers (STI SUB-121).....	33.88	

28 46 21 33-1840 System Sensor Fire Alarm (28 46 21 33)**28 46 21 33-1841 Smoke Detectors (28 46 21 33-1840)**

28 46 21 33-1842	EA	Beam Detector Heater Kit (System Sensor BEAMHK)	45.34	4.83
28 46 21 33-1843	EA	Reflectors, Beam Detector Heater Kit (System Sensor BEAMHKR).....	183.62	4.83
		Note: Four used with long range kit.		
28 46 21 33-1844	EA	Projected Beam Smoke Detector Long Range Kit (System Sensor BEAMLRK)	232.12	48.25
28 46 21 33-1845	EA	Wall Or Ceiling Mounted, Projected Beam Smoke Detector Multi-Mount Kit (System Sensor BEAMMMK)	172.34	48.25
28 46 21 33-1846	EA	Projected Beam Smoke Detector Surface Mounted Kit (System Sensor BEAMSMK)	142.01	48.25
28 46 21 33-1847	EA	Two Wire, Photoelectric Smoke Detector (System Sensor 2W-B)	129.89	36.19
28 46 21 33-1848	EA	Two Wire, Photoelectric Smoke Detector With Thermal Sensor (System Sensor 2WT-B).....	132.15	36.19
28 46 21 33-1849	EA	Two Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 2WTA-B)	136.08	36.19
28 46 21 33-1850	EA	Four Wire, Photoelectric Smoke Detector (System Sensor 4W-B)	131.88	36.19
28 46 21 33-1851	EA	Four Wire, Photoelectric Smoke Detector With Thermal Sensor, 12/24 VDC (System Sensor 4WT-B).....	141.08	36.19
28 46 21 33-1852	EA	Four Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 4WTA-B)	139.18	36.19
28 46 21 33-1853	EA	Four Wire, Photoelectric Smoke Detector With Isolated Thermal Sensor, Built In Sounder, Form C Relay (System Sensor 4WITAR-B).....	168.73	36.19
28 46 21 33-1854	EA	Photoelectric, Low-Profile, Smoke Detector Head (System Sensor 2151).....	100.00	24.13
28 46 21 33-1855	EA	Photoelectric With Thermal Sensor, Low-Profile, Smoke Detector Head (System Sensor 2151T).....	112.49	24.13
		Note: Requires B100 series base.		
28 46 21 33-1856	EA	Heavy Duty Multi-Mount Kit (System Sensor 6500-MMK)	209.70	12.06
28 46 21 33-1857	EA	Surface-Mount Kit For Use With Beam1224 And FSB-200 When Using 6500-MMK Heavy Duty Multi-Mount Kit (System Sensor 6500-SMK)	73.20	12.06

28 46 21 33-1858 Duct Smoke Detectors (28 46 21 33-1840)

28 46 21 33-1859	EA	Two Wire Conventional Photoelectric Duct Detector (Includes 2151 Detector) (System Sensor D2)	271.55	36.19
28 46 21 33-1860	EA	Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120)	274.45	36.19
28 46 21 33-1861	EA	Watertight, Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120W)	352.58	41.01
28 46 21 33-1862	EA	Sensor Only, Four Wire Conventional Photoelectric Duct Detector (System Sensor D4S).....	178.51	24.13
28 46 21 33-1863	EA	Duct Accessory Coil (Required On DNR If A Remote Test Station Is Used) (System Sensor DCOIL)	48.38	7.23
28 46 21 33-1864	EA	Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNR)	153.61	19.30
28 46 21 33-1865	EA	Watertight, Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNRW).....	249.08	24.13
28 46 21 33-1866	EA	1' Steel Sampling Tube (System Sensor DST1)	29.11	9.65
28 46 21 33-1867	EA	1.5' Steel Sampling Tube (System Sensor DST1.5).....	31.34	9.65
28 46 21 33-1868	EA	3' Steel Sampling Tube (System Sensor DST3).....	35.80	9.65
28 46 21 33-1869	EA	5' Steel Sampling Tube (System Sensor DST5).....	42.27	12.06
28 46 21 33-1870	EA	10' Steel Sampling Tube (System Sensor DST10).....	66.20	14.48
28 46 21 33-1871	EA	1", Steel, Exhaust Tube Duct (System Sensor ETX).....	32.24	9.65
28 46 21 33-1872	EA	Remote Test Station For Duct Smoke Detector (System Sensor RTS151)	73.87	12.06
28 46 21 33-1873	EA	Detector Installation/Removal Tool Kit For 700 Series Detectors (System Sensor XR2).....	156.13	
28 46 21 33-1874	EA	Detector Installation/Removal Tool Kit For 800 And 355 Series Detectors (System Sensor XR2B).....	167.73	

28 46 21 33-1875 Heat Detectors (28 46 21 33-1840)

28 46 21 33-1876	EA	Single Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5601P)	90.96	36.19
28 46 21 33-1877	EA	Single Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5602)	90.96	36.19
28 46 21 33-1878	EA	Dual Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5621)	105.11	36.19
28 46 21 33-1879	EA	Dual Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5622).....	105.11	36.19

28 46 21 33-1880 Horns (28 46 21 33-1840)

28 46 21 33-1881	EA	Red, Mini Horn (System Sensor MHR)	96.91	36.19
28 46 21 33-1882	EA	White, Mini Horn (System Sensor MHW).....	96.91	36.19
28 46 21 33-1883	EA	White, 12/24 VDC, Wall Mounted Horn Only (System Sensor HW).....	109.40	36.19
28 46 21 33-1884	EA	Red, Outdoor, Wall Mounted Replacement Horn (System Sensor HRK-R).....	122.18	41.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1885 EA Red, Interior, Wall Mounted, Horn (System Sensor HR).....	109.10	36.19
28 46 21 33-1886 EA Red, Outdoor, Wall Mounted, Horn (System Sensor HRK).....	129.89	36.19
28 46 21 33-1887 Wall Mounted Horns/Strobes (28 46 21 33-1840)		
28 46 21 33-1888 EA Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2R).....	140.18	36.19
28 46 21 33-1889 EA Red, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RH).....	145.54	36.19
28 46 21 33-1890 EA Outdoor Backbox, Red, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK).....	185.52	41.01
28 46 21 33-1891 EA Plain, Outdoor Backbox, Red, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-P).....	185.52	41.01
28 46 21 33-1892 EA Low Frequency, Red, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RH-LF).....	193.71	36.19
28 46 21 33-1893 EA Outdoor Backbox, Red, 120 VAC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-120).....	198.90	41.01
28 46 21 33-1894 EA Outdoor Backbox, Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK).....	175.26	41.01
28 46 21 33-1895 EA Plain, Outdoor Backbox, Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-P).....	180.17	41.01
28 46 21 33-1896 EA Replacement, Outdoor, Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-R).....	157.14	36.19
28 46 21 33-1897 EA Plain, Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2R-P).....	140.18	36.19
28 46 21 33-1898 EA White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2W).....	140.18	36.19
28 46 21 33-1899 EA White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH).....	146.43	36.19
28 46 21 33-1900 EA Low Frequency, White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH-LF).....	193.71	36.19
28 46 21 33-1901 EA Outdoor Backbox, White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK).....	185.52	41.01
28 46 21 33-1902 EA Plain, Outdoor Backbox, White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK-P).....	185.52	41.01
28 46 21 33-1903 EA Plain, White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH-P).....	145.54	36.19
28 46 21 33-1904 EA Outdoor Backbox, White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK).....	180.17	41.01
28 46 21 33-1905 EA Plain, Outdoor Backbox, White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK-P).....	180.17	41.01
28 46 21 33-1906 EA Plain, White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2W-P).....	140.18	36.19
28 46 21 33-1907 EA Red, Four Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4R).....	158.20	36.19
28 46 21 33-1908 EA Red, Four Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P4RH).....	161.74	36.19
28 46 21 33-1909 EA Outdoor Backbox, Red, Four Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK).....	186.43	41.01
28 46 21 33-1910 EA Replacement, Outdoor, Red, Four Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK-R).....	176.60	41.01
28 46 21 33-1911 EA White, Four Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4W).....	158.92	36.19
28 46 21 33-1912 EA Outdoor Backbox, White, Four Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor PC4WHK).....	181.95	41.01
28 46 21 33-1913 EA Outdoor Backbox, White, Four Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WK).....	187.30	41.01
28 46 21 33-1914 Ceiling Mounted Horns/Strobes (28 46 21 33-1840)		
28 46 21 33-1915 EA Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2R).....	140.18	36.19
28 46 21 33-1916 EA Red, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RH).....	147.32	36.19
28 46 21 33-1917 EA Outdoor Backbox, Red, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RHK).....	185.52	41.01
28 46 21 33-1918 EA Outdoor Backbox, Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RK).....	180.17	41.01
28 46 21 33-1919 EA Plain, Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2R-P).....	141.08	36.19
28 46 21 33-1920 EA White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2W).....	140.18	36.19
28 46 21 33-1921 EA White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH).....	147.32	36.19
28 46 21 33-1922 EA Outdoor Backbox, White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WHK).....	185.52	41.01
28 46 21 33-1923 EA Plain, White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH-P).....	147.32	36.19
28 46 21 33-1924 EA Outdoor Backbox, White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WK).....	180.17	41.01
28 46 21 33-1925 EA Plain, White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2W-P).....	140.18	36.19
28 46 21 33-1926 EA Red, Ceiling Mounted, Four Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Horn/Strobe (System Sensor PC4R).....	158.20	36.19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1927 EA Red, Ceiling Mounted, Four Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Horn/Strobe (System Sensor PC4RH).....	161.74	36.19
28 46 21 33-1928 EA White, Four Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC4W)	158.92	36.19
28 46 21 33-1929 Wall Mounted Strobes <small>(28 46 21 33-1840)</small>		
28 46 21 33-1930 EA White Strobe Expander Plate Backbox Skirt (System Sensor SEP-BBSW)	54.46	12.06
28 46 21 33-1931 EA White Strobe Expander Plate With Standard Candela (System Sensor SEP-SW)	100.86	12.06
28 46 21 33-1932 EA Red, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SR)	126.35	36.19
28 46 21 33-1933 EA Red, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRH).....	138.73	36.19
28 46 21 33-1934 EA Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK)	167.85	41.01
28 46 21 33-1935 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK).....	166.08	41.01
28 46 21 33-1936 EA Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-P).....	166.79	41.01
28 46 21 33-1937 EA Replacement Unit, Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-R)	147.16	41.01
28 46 21 33-1938 EA Red, Plain, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SR-P)	126.80	36.19
28 46 21 33-1939 EA White, 12/24 VDC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SW)	126.80	36.19
28 46 21 33-1940 EA White, Amber Lens, 12/24 VDC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SW-ALERT)	136.62	36.19
28 46 21 33-1941 EA White, Clear Lens, 12/24 VDC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SW-CLR-ALERT).....	133.94	36.19
28 46 21 33-1942 EA White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH).....	139.29	36.19
28 46 21 33-1943 EA White, Amber Lens, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-ALERT)	138.40	36.19
28 46 21 33-1944 EA White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-P)	138.40	36.19
28 46 21 33-1945 EA Red, Plain, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-P)	168.57	41.01
28 46 21 33-1946 EA White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK)	168.57	41.01
28 46 21 33-1947 EA White, Plain, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK-P).....	168.57	41.01
28 46 21 33-1948 EA Replacement Unit, Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-R).....	150.73	41.01
28 46 21 33-1949 EA White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK).....	166.79	41.01
28 46 21 33-1950 EA White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK-P)	166.79	41.01
28 46 21 33-1951 EA White, Plain, 12/24 VDC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SW-P).....	125.91	36.19
28 46 21 33-1952 EA Amber, Wall Strobe Lens Attachment (System Sensor LENS-A)	19.46	4.83
28 46 21 33-1953 EA Blue, Wall Strobe Lens Attachment (System Sensor LENS-B).....	19.46	4.83
28 46 21 33-1954 EA Green, Wall Strobe Lens Attachment (System Sensor LENS-G).....	19.46	4.83
28 46 21 33-1955 EA Red, Wall Strobe Lens Attachment (System Sensor LENS-R).....	19.46	4.83
28 46 21 33-1956 Ceiling Mounted Strobes <small>(28 46 21 33-1840)</small>		
28 46 21 33-1957 EA Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCR)	126.35	36.19
28 46 21 33-1958 EA Red, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRH)	140.50	36.19
28 46 21 33-1959 EA Outdoor Backbox, Red, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRHK)	167.85	41.01
28 46 21 33-1960 EA Outdoor Backbox, Red, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRK)	167.85	41.01
28 46 21 33-1961 EA White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCW)	126.80	36.19
28 46 21 33-1962 EA Clear Lens, White, Two Wire, 12/24 VDC, Standard Candela, Ceiling Mounted Strobe (System Sensor SCW-CLR-ALERT)	133.94	36.19
28 46 21 33-1963 EA White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWH).....	141.08	36.19
28 46 21 33-1964 EA Outdoor Backbox, White, Two Wire, 12/24 VDC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWHK)	168.57	41.01
28 46 21 33-1965 EA Outdoor Backbox, White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWK).....	166.79	41.01
28 46 21 33-1966 EA Plain, White, Two Wire, 12/24 VDC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCW-P).....	127.69	36.19
28 46 21 33-1967 EA Blue, Ceiling Strobe Lens Attachment (System Sensor LENS-BC)	19.46	4.83
28 46 21 33-1968 EA Red, Ceiling Strobe Lens Attachment (System Sensor LENS-RC).....	19.46	4.83
28 46 21 33-1969 EA Green, Ceiling Strobe Lens Attachment (System Sensor LENS-GC).....	19.46	4.83
28 46 21 33-1970 EA Amber, Ceiling Strobe Lens Attachment (System Sensor LENS-AC).....	19.46	4.83
28 46 21 33-1971 Wall Mounted Speakers <small>(28 46 21 33-1840)</small>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-1972	EA		24 VDC, 4 Field Selectable Sound Pulse Patterns, Directional Sound Speaker With Voice And Integral Audio Amplifier (System Sensor PF24V).....	294.53	36.19
28 46 21 33-1973	EA		Red, Wall Mounted Speaker (System Sensor SPR).....	106.88	36.19
28 46 21 33-1974	EA		Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK).....	153.12	36.19
28 46 21 33-1975	EA		Replacement Unit, Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK-R).....	135.11	41.01
28 46 21 33-1976	EA		Red, High dB, Wall Mounted Speaker (System Sensor SPRV).....	116.62	36.19
28 46 21 33-1977	EA		White, Wall Mounted Speaker (System Sensor SPW).....	107.17	36.19
28 46 21 33-1978	EA		White, Outdoor, Wall Mounted Speaker (System Sensor SPWK).....	162.77	41.01
28 46 21 33-1979	EA		White, High dB, Wall Mounted Speaker (System Sensor SPWV).....	116.99	36.19
28 46 21 33-1980 Ceiling Mounted Speakers (28 46 21 33-1940)					
28 46 21 33-1981	EA		Red, Ceiling Mounted Speaker (System Sensor SPCR).....	106.88	36.19
28 46 21 33-1982	EA		Outdoor, Ceiling Mounted Speaker (System Sensor SPCRK).....	152.45	36.19
28 46 21 33-1983	EA		Red, High dB, Ceiling Mounted Speaker (System Sensor SPCRK).....	116.62	36.19
28 46 21 33-1984	EA		White, Ceiling Mounted Speaker (System Sensor SPCW).....	107.17	36.19
28 46 21 33-1985	EA		White, High dB, Ceiling Mounted Speaker (System Sensor SPCWV).....	116.99	36.19
28 46 21 33-1986	EA		White, Outdoor, Ceiling Mounted Speaker (System Sensor SPCWK).....	162.77	41.01
28 46 21 33-1987 Wall Mounted Speakers/Strobes (28 46 21 33-1940)					
28 46 21 33-1988	EA		White Speaker Strobe Expander Plate With Standard Candela (System Sensor SEP-SPSW).....	108.89	12.06
28 46 21 33-1989	EA		White Speaker Strobe Expander Plate Backbox Skirt (System Sensor SPSEP-BBSW).....	54.46	12.06
28 46 21 33-1990	EA		Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSR).....	162.62	36.19
28 46 21 33-1991	EA		Red, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRH).....	172.35	36.19
28 46 21 33-1992	EA		Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK).....	227.12	41.01
28 46 21 33-1993	EA		Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-P).....	228.34	41.01
28 46 21 33-1994	EA		Replacement Unit, Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-R).....	196.23	41.01
28 46 21 33-1995	EA		Red, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSR-P).....	163.38	36.19
28 46 21 33-1996	EA		Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRV).....	167.04	36.19
28 46 21 33-1997	EA		White, Amber Lens, Wall Mounted, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSW-ALERT).....	183.01	36.19
28 46 21 33-1998	EA		White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-CLR-ALERT).....	231.91	41.01
28 46 21 33-1999	EA		White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSW).....	163.38	36.19
28 46 21 33-2000	EA		White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH).....	173.19	36.19
28 46 21 33-2001	EA		White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH-P).....	173.19	36.19
28 46 21 33-2002	EA		White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK).....	228.34	41.01
28 46 21 33-2003	EA		White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-P).....	228.34	41.01
28 46 21 33-2004	EA		White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSW-P).....	163.38	36.19
28 46 21 33-2005	EA		White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV).....	167.84	36.19
28 46 21 33-2006	EA		White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV-P).....	167.84	36.19
28 46 21 33-2007 Ceiling Mounted Speakers/Strobes (28 46 21 33-1940)					
28 46 21 33-2008	EA		Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCR).....	162.62	36.19
28 46 21 33-2009	EA		Red, Selectable Candela (135, 150, 177, 185) Candela, High-Candela, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRH).....	174.12	36.19
28 46 21 33-2010	EA		Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115), Ceiling Mounted Speaker/Strobe (System Sensor SPSCRV).....	167.04	36.19
28 46 21 33-2011	EA		White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSW).....	163.38	36.19
28 46 21 33-2012	EA		White, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSW-CLR-ALERT).....	174.98	36.19
28 46 21 33-2013	EA		White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSWH).....	173.19	36.19
28 46 21 33-2014	EA		White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSWHK).....	231.02	41.01
28 46 21 33-2015	EA		White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSWH-P).....	173.19	36.19
28 46 21 33-2016	EA		White, Outdoor, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSWK-CLR-ALERT).....	231.91	41.01
28 46 21 33-2017	EA		White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSWK).....	228.34	41.01
28 46 21 33-2018	EA		White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSW-P).....	163.38	36.19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-2019	EA		White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV)	167.84	36.19
28 46 21 33-2020	EA		White, High-Candela/High dB, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWVH)	173.19	36.19
28 46 21 33-2021	EA		White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV-P)	167.84	36.19
28 46 21 33-2022	EA		High-Candela/High dB, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRVH)	172.94	36.19
28 46 21 33-2023			Electric Alarm Bells <small>(28 46 21 33-1840)</small>		
28 46 21 33-2024	EA		6" 24 Volt DC Alarm Bell (System Sensor SSM24-6)	126.80	36.19
28 46 21 33-2025	EA		8" 24 Volt DC Alarm Bell (System Sensor SSM24-8)	136.62	36.19
28 46 21 33-2026	EA		10" 24 Volt DC Alarm Bell (System Sensor SSM24-10)	159.28	36.19
28 46 21 33-2027	EA		6" 120 Volt AC Alarm Bell (System Sensor SSV120-6)	123.25	36.67
28 46 21 33-2028	EA		8" 120 Volt AC Alarm Bell (System Sensor SSV120-8)	124.42	36.67
28 46 21 33-2029	EA		10" 120 Volt AC Alarm Bell (System Sensor SSV120-10)	131.85	36.67
28 46 21 33-2030			Device Bases <small>(28 46 21 33-1840)</small>		
28 46 21 33-2031	EA		High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base (System Sensor B200S)	92.83	12.06
28 46 21 33-2032	EA		Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR)	90.60	12.06
28 46 21 33-2033	EA		Intelligent Isolator Base (System Sensor B224BI)	75.21	12.06
28 46 21 33-2034	EA		Intelligent Relay Base (System Sensor B224RB)	76.32	12.06
28 46 21 33-2035	EA		Flangeless, Intelligent Detector Base (System Sensor B501)	44.43	12.06
28 46 21 33-2036			Boxes, Plates And Decals <small>(28 46 21 33-1840)</small>		
28 46 21 33-2037	EA		Two Wire, Flanged, 12/24 VDC, Low-Profile, Adapter Base (System Sensor B110LP)	38.85	12.06
28 46 21 33-2038	EA		Four Wire, Form A And C, 24 VDC Low-Profile, Adapter Base (System Sensor B112LP)	72.22	14.48
28 46 21 33-2039	EA		Conventional Flanged Mounting Base (System Sensor B210LP)	37.51	12.06
28 46 21 33-2040	EA		120 VAC, Mounting Plate, For Spectralert Advance Devices (System Sensor MP120K)	69.63	12.06
28 46 21 33-2041	EA		Red, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBB)	61.60	12.06
28 46 21 33-2042	EA		White, Ceiling Mounted, Metal, Weatherproof Backbox (System Sensor MWBBCW)	67.85	12.06
28 46 21 33-2043	EA		White, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBBW)	61.60	12.06
28 46 21 33-2044	EA		Red Retrofit Plate (System Sensor RFP)	30.18	7.23
28 46 21 33-2045	EA		White Retrofit Plate (System Sensor RFPW)	30.18	7.23
28 46 21 33-2046	EA		Red, Wall Mounted, Weatherproof Backbox (System Sensor SA-WBB)	52.68	12.06
28 46 21 33-2047	EA		Red, Ceiling Mounted, Weatherproof Backbox (System Sensor SA-WBBC)	54.02	12.06
28 46 21 33-2048	EA		Red, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCR)	45.10	12.06
28 46 21 33-2049	EA		White, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCW)	45.10	12.06
28 46 21 33-2050	EA		Red, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBR)	38.85	12.06
28 46 21 33-2051	EA		Red, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBSPR)	43.31	12.06
28 46 21 33-2052	EA		White, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBSPW)	43.31	12.06
28 46 21 33-2053	EA		White, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBW)	38.85	12.06
28 46 21 33-2054	EA		Surface Mounted Box For Intelligent Control Or Monitor Modules (System Sensor SMB500)	38.40	12.06
28 46 21 33-2055	EA		Surface Mounted Box For 400 And 500 Series Detectors And Sounder Bases (System Sensor SMB600)	38.40	12.06
28 46 21 33-2056	EA		Red, Wall Mounted, Trim Ring (System Sensor TR)	16.16	4.83
28 46 21 33-2057	EA		Red, Ceiling Mounted, Trim Ring (System Sensor TRC)	16.16	4.83
28 46 21 33-2058	EA		White, Ceiling Mounted, Trim Ring (System Sensor TRCW)	16.16	4.83
28 46 21 33-2059	EA		Red, Wall Mounted Horn/Strobe Trim Ring (System Sensor TR-HS)	14.07	4.83
28 46 21 33-2060	EA		White, Wall Mounted, Trim Ring (System Sensor TRW)	16.16	4.83
28 46 21 33-2061	EA		Red Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-R)	20.53	
28 46 21 33-2062	EA		Red Decals, Three Pack, Spectralert Advance Ceiling Products (System Sensor DECAL-RC)	28.48	
28 46 21 33-2063	EA		White Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-W)	20.53	
28 46 21 33-2064	EA		White Decals, Three Pack, Spectralert Advance Wall Products (System Sensor DECAL-WC)	28.48	
28 46 21 33-2065			Chimes <small>(28 46 21 33-1840)</small>		
28 46 21 33-2066	EA		Red, 12/24 VDC, Ceiling Or Wall Mounted Chime (System Sensor CHR)	112.53	36.19
28 46 21 33-2067	EA		White, 12/24 VDC, Ceiling Or Wall Mounted Chime (System Sensor CHW)	112.53	36.19
28 46 21 33-2068			Chime/Strobes <small>(28 46 21 33-1840)</small>		
28 46 21 33-2069	EA		Red, 15, 15/75, 30, 75, 110 Multi-Candela, 24 VDC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSR)	196.39	36.19
28 46 21 33-2070	EA		White, 15, 15/75, 30, 75, 110 Multi-Candela, 24 VDC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSW)	196.39	36.19
28 46 21 33-2071			Carbon Monoxide Detectors <small>(28 46 21 33-1840)</small>		
28 46 21 33-2072	EA		Conventional Carbon Monoxide Detector (System Sensor CO1224)	208.43	48.25
28 46 21 33-2073	EA		Round, Sounder And Trouble Relay With Test Function, 12/24 VDC, Conventional Carbon Monoxide Detector (System Sensor CO1224TR)	185.24	36.19
28 46 21 33-2074	EA		CO Detector Plate For Replacing Round CO Detectors With The CO1224T (System Sensor CO-PLATE)	13.22	4.83
28 46 21 33-2075			Switches <small>(28 46 21 33-1840)</small>		
28 46 21 33-2076	EA		SPDT Switch, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-1)	155.47	19.30
28 46 21 33-2077	EA		Two SPDT Switches, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-2)	173.32	19.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-2078 EA SPDT Switch, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-1).....	155.47	19.30
28 46 21 33-2079 EA Two SPDT Switches, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-2)	173.32	19.30
28 46 21 33-2080 EA Outside Screw And Yoke Valve, Two SPDT, Supervisory Switch (System Sensor OSY2)	159.04	19.30
28 46 21 33-2081 EA Post Indicator Butterfly Valve, SPDT, Supervisory Switch (System Sensor PIBV2)	150.12	19.30
28 46 21 33-2082 Low Frequency Sounders <small>(28 46 21 33-1840)</small>		
28 46 21 33-2083 EA Red, Low Frequency Sounder (System Sensor HR-LF)	141.97	36.19
28 46 21 33-2084 EA White, Low Frequency Sounder (System Sensor HW-LF).....	141.97	36.19
28 46 21 33-2085 Sync Modules <small>(28 46 21 33-1840)</small>		
28 46 21 33-2086 EA Red, 12/24 VDC, Sync Module (System Sensor MDL3R)	124.08	24.13
28 46 21 33-2087 EA White, 12/24 VDC, Sync Module (System Sensor MDL3W).....	124.08	24.13
28 46 21 33-2088 Relays <small>(28 46 21 33-1840)</small>		
28 46 21 33-2089 EA Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10E).....	71.34	19.30
28 46 21 33-2090 EA SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10T).....	45.90	12.06
28 46 21 33-2091 EA 4-Gang Relay, Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14E).....	129.40	12.06
28 46 21 33-2092 EA 4-Gang Relay, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14T).....	95.73	12.06
28 46 21 33-2093 EA Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20E).....	76.43	19.30
28 46 21 33-2094 EA DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20T)	47.33	12.06
28 46 21 33-2095 EA 4-Gang Relay, Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24E).....	145.46	12.06
28 46 21 33-2096 EA 4-Gang Relay, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24T)	108.89	12.06
28 46 21 33-2097 EA 18 To 35 VDC, 18 To 35 VAC, 120 VAC, SPDT Multivoltage Relay (System Sensor PR-1).....	40.19	12.06
28 46 21 33-2098 EA 10 To 40 VDC, SPDT Multivoltage Relay (System Sensor PR-2).....	40.19	12.06
28 46 21 33-2099 EA Redundant Power Input, 10 To 40 VDC, SPDT Multivoltage Relay (System Sensor PR-3).....	40.19	12.06
28 46 21 33-2100 Remote Annunciator <small>(28 46 21 33-1840)</small>		
28 46 21 33-2101 EA Remote Annunciator (System Sensor RA100Z)	84.69	36.19
28 46 21 33-2102 EA Remote LED Annunciator (System Sensor RA100ZA)	89.68	36.19
28 46 21 33-2103 Remote Test Station <small>(28 46 21 33-1840)</small>		
28 46 21 33-2104 EA Remote Test Station With Key (System Sensor RTS151KEY).....	111.78	36.19
28 46 21 33-2105 Fire Alarm Digital Cellular Communicator <small>(28 46 21 33)</small>		
28 46 21 33-2106 EA Digital Cellular Communicator With Antenna And Red Enclosure (Telular Telguard TG-7FS)	446.51	48.25
28 46 21 33-2107 Wheelock Fire Alarm <small>(28 46 21 33)</small>		
28 46 21 33-2108 Ceiling Mounted Chimes/Strobes <small>(28 46 21 33-2107)</small>		
28 46 21 33-2109 EA White, Round, Selectable Candela (15, 30, 75, 100 Candela), 24 VDC, Ceiling Mounted Chime/Strobe (Wheelock CH90-24MCC-FW).....	227.62	36.19
28 46 21 33-2110 Wall Mounted Chimes/Strobes <small>(28 46 21 33-2107)</small>		
28 46 21 33-2111 EA Red, Selectable Candela (15, 30, 75, 110 Candela), 24 VDC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FR)	227.62	36.19
28 46 21 33-2112 EA White, Selectable Candela (15, 30, 75, 110 Candela), 24 VDC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FW).....	227.62	36.19
28 46 21 33-2113 Ceiling Mounted Horns/Strobes <small>(28 46 21 33-2107)</small>		
28 46 21 33-2114 EA Red, Two Wire, 12/24 VDC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSRC)	144.64	36.19
28 46 21 33-2115 EA White, Two Wire, 12/24 VDC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSWC).....	144.64	36.19
28 46 21 33-2116 Wall Mounted Horns/Strobes <small>(28 46 21 33-2107)</small>		
28 46 21 33-2117 EA Red, Weatherproof, 24 VDC, 75 Candela, Wall Mounted, Horn/Strobe (Wheelock ASWP-2475W-FR).....	154.46	36.19
28 46 21 33-2118 EA Red, 24 VDC, 15/75 Candela, Continuous Or Code 3 Tone, Wall Mounted Horn/Strobe (Wheelock HS4-241575 Watt-FR).....	174.09	36.19
28 46 21 33-2119 EA Red, 24 VDC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FR)	162.49	36.19
28 46 21 33-2120 EA White, 24 VDC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FW).....	162.49	36.19
28 46 21 33-2121 EA Red, Flush, 24 VAC, 15/75 Candela, Sync/Non-Sync, Wall Mounted Horn/Strobe (Wheelock MT-241575 Watt-FR)	166.06	36.19
28 46 21 33-2122 EA Red, 24 VAC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FR)	159.37	36.19
28 46 21 33-2123 EA Red, 115 VAC, Wall Mounted Horn/Strobe (Wheelock MT4-115-WH-VFR)	158.92	36.19
28 46 21 33-2124 EA Red, Weatherproof, 24 VDC, 75 Candela, Wall Mounted Horn/Strobe (Wheelock MTWP-2475W-FR)	179.28	41.01
28 46 21 33-2125 EA Red, Two Wire, 12/24 VDC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSR).....	145.09	36.19
28 46 21 33-2126 EA White, Two Wire, 12/24 VDC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSW)	145.09	36.19
28 46 21 33-2127 Ceiling Mounted Strobes <small>(28 46 21 33-2107)</small>		

28 Electronic Safety And Security**28 40 Life Safety****28 46 Fire Detection And Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-2128	EA		Red, 24 VDC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FR)	129.92	36.19
28 46 21 33-2129	EA		White, 24 VDC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FW)	129.92	36.19
28 46 21 33-2130	EA		Red, Two Wire, 12/24 VDC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STRC)	132.15	36.19
28 46 21 33-2131	EA		White, Two Wire, 12/24 VDC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STWC)	132.15	36.19
28 46 21 33-2132			Wall Mounted Strobes <small>(28 46 21 33-2107)</small>		
28 46 21 33-2133	EA		Red, Multi-Candela, 24 VDC, Wall Mounted Strobe (Wheelock AMT-24MCW-FR)	197.28	36.19
28 46 21 33-2134	EA		Red, Retrofit Plate, 12 VDC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSSP-121575W-FR)	161.60	36.19
28 46 21 33-2135	EA		Red, 24 VDC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSS-241575W-FR)	142.86	36.19
28 46 21 33-2136	EA		Red, 24 VDC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FR)	133.94	36.19
28 46 21 33-2137	EA		White, 24 VDC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FW)	133.94	36.19
28 46 21 33-2138	EA		Red, Retrofit Plate, 24 VDC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSSP-24MCW-FR)	146.88	36.19
28 46 21 33-2139	EA		Outdoor, Red, 24 VDC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FR)	151.62	41.01
			Note: Requires WPSBB-R.		
28 46 21 33-2140	EA		Red, Two Wire, 12/24 VDC, Multi-Candela, Wall Mounted Strobe (Wheelock STR)	132.15	36.19
28 46 21 33-2141	EA		White, Two Wire, 12/24 VDC, Multi-Candela, Wall Mounted Strobe (Wheelock STW)	132.15	36.19
28 46 21 33-2142			Ceiling Mounted Speakers/Strobes <small>(28 46 21 33-2107)</small>		
28 46 21 33-2143	EA		Red, 24 VDC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FR)	172.30	36.19
28 46 21 33-2144	EA		White, 24 VDC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FW)	172.30	36.19
28 46 21 33-2145	EA		White, 24 VDC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-FW)	170.52	36.19
28 46 21 33-2146	EA		White, 24 VDC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW)	172.30	36.19
28 46 21 33-2147	EA		White, 24 VDC, Multi-Candela 115/177, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW)	183.45	36.19
28 46 21 33-2148	EA		White, 24 VDC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FW)	187.47	36.19
28 46 21 33-2149			Wall Mounted Speakers/Strobes <small>(28 46 21 33-2107)</small>		
28 46 21 33-2150	EA		Red, Square, 24 VDC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FR)	189.25	36.19
28 46 21 33-2151	EA		White, Square, 24 VDC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FW)	189.25	36.19
28 46 21 33-2152	EA		Red, 24 VDC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FR)	183.45	36.19
28 46 21 33-2153	EA		White, 24 VDC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FW)	183.45	36.19
28 46 21 33-2154	EA		Red, Square, 24 VDC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FR)	172.30	36.19
28 46 21 33-2155	EA		White, Square, 24 VDC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FW)	168.73	36.19
28 46 21 33-2156	EA		Red, 24 VDC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FR)	183.45	36.19
28 46 21 33-2157	EA		White, 24 VDC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FW)	183.45	36.19
28 46 21 33-2158	EA		Red, Square, 24 VDC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E70-241575 Watt-FR)	187.47	36.19
28 46 21 33-2159	EA		Red, Square, 24 VDC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FR)	172.30	36.19
28 46 21 33-2160	EA		White, Square, 24 VDC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FW)	168.73	36.19
28 46 21 33-2161	EA		Red, 24 VDC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR)	183.45	36.19
28 46 21 33-2162	EA		White, 24 VDC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW)	187.47	36.19
28 46 21 33-2163	EA		Red, 24 VDC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FR)	187.47	36.19
28 46 21 33-2164	EA		White, 24 VDC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FW)	187.47	36.19
28 46 21 33-2165	EA		Weatherproof, Red, 24 VDC, 75 Candela, Wall Mounted Speaker Strobe/(Wheelock ET70WP-2475 W-FR)	204.70	41.01
			Note: Requires weatherproof backbox (IOB).		
28 46 21 33-2166			Electric Alarm Bells <small>(28 46 21 33-2107)</small>		
28 46 21 33-2167	EA		6", 24 VDC, Red, Vibrating Bell (Wheelock 43T-G6-24-R)	147.77	36.19
28 46 21 33-2168	EA		6", 115 VAC, Red, Vibrating Bell (Wheelock 43T-G6-115-R)	147.77	36.19
28 46 21 33-2169	EA		10", 115 VAC, Red, Vibrating Bell (Wheelock 43T-G10-115-R)	189.25	36.19
28 46 21 33-2170	EA		115 VAC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CSX10-115-R)	1,251.65	41.01
28 46 21 33-2171	EA		Outdoor, 115 VAC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CSXG10-115-R)	1,973.41	41.01
28 46 21 33-2172	EA		Vibrating, Outdoor, 115 VAC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CVXG10-115-R)	1,844.05	41.01
28 46 21 33-2173	EA		6", ADA, 24 VDC, Red, Motor Bell (Wheelock MB-G6-24-R)	121.00	36.19
28 46 21 33-2174	EA		10", ADA, 24 VDC, Red, Motor Bell (Wheelock MB-G10-24-R)	141.97	36.19
28 46 21 33-2175			Horns <small>(28 46 21 33-2107)</small>		
28 46 21 33-2176	EA		Two Wire, 24 VDC, Indoor Or Outdoor, Continuous Or Code 3, Sync Or Non Sync Horn (Wheelock AH-24WP-R)	108.07	36.19
28 46 21 33-2177	EA		Red, Two Wire, 12/24 VDC, Wall Mounted Horn (Wheelock HNR)	107.62	36.19
28 46 21 33-2178	EA		White, Two Wire, 12/24 VDC, Wall Mounted Horn (Wheelock HNW)	107.62	36.19
28 46 21 33-2179	EA		Red, Two Wire, 12/24 VDC, Ceiling Mounted Horn (Wheelock HNR)	108.07	36.19
28 46 21 33-2180	EA		White, Two Wire, 12/24 VDC, Ceiling Mounted Horn (Wheelock HNW)	108.07	36.19
28 46 21 33-2181	EA		Red, 24 VDC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-R)	92.90	36.19
28 46 21 33-2182	EA		White, 24 VDC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-W)	92.90	36.19
28 46 21 33-2183	EA		Red, Flush, 12/24 VAC, Horn (Wheelock MT-12/24-R)	105.84	36.19



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 33-2184 Speakers <small>(28 46 21 33-2107)</small>					
		EA	Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Mounted Speaker (Wheelock E50-R).....	110.74	36.19
		EA	White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Mounted Speaker (Wheelock E50-W)	110.74	36.19
		EA	Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Ceiling Mounted Speaker (Wheelock E60-R)	110.74	36.19
		EA	White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Ceiling Mounted Speaker (Wheelock E60-W).....	108.51	36.19
		EA	Red, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Or Ceiling Mounted Speaker (Wheelock E70-R)	110.74	36.19
		EA	White, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Or Ceiling Mounted Speaker (Wheelock E70-W).....	110.74	36.19
		EA	Red, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Or Ceiling Mounted Speaker (Wheelock E90-R)	110.74	36.19
		EA	White, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watts, Wall Or Ceiling Mounted Speaker (Wheelock E90-W).....	110.74	36.19
		EA	Red, Flush Or Surface, Square, 1/8 - 8 Watts, Wall Mounted Speaker (Wheelock ET70-R).....	125.02	36.19
		EA	White, Flush Or Surface, Square, 1/8 - 8 Watts, Wall Mounted Speaker (Wheelock ET70-W)	125.02	36.19
		EA	White, Round, 25 Or 70.7 VRMS, 1/8 - 8 Watts Ceiling Mounted Speaker (Wheelock ET90-W)	126.80	36.19
		EA	Red, Surface Mounted, Vandal Resistant, Square, 1/8 - 8 Watts, Wall Or Ceiling Mounted Speaker (Wheelock ET-1010-R).....	139.74	36.19
		EA	Red, Flush Mounted, Vandal Resistant, Square, 1/8 - 8 Watts, Wall Or Ceiling Mounted Speaker (Wheelock ET-1080-R)	133.94	36.19
		EA	Grey, 1 To 15 Watts, 25/70/100 V Transformer, Loud Speaker (Wheelock STH-15S)	249.92	36.19
		EA	Red, 1 To 15 Watts, 25/70/100 V Transformer, Loud Speaker (Wheelock STH-15SR).....	249.92	36.19
28 46 21 33-2200 Sync Modules <small>(28 46 21 33-2107)</small>					
		EA	12 Or 24 VDC, Single Circuit Class B, Sync Module (Wheelock SM-12/24-R).....	117.84	24.13
28 46 21 33-2202 Boxes, Plates And Rings <small>(28 46 21 33-2107)</small>					
		EA	4" Square, Red, Surface Backbox (Wheelock BB-R).....	32.38	12.06
		EA	Standard 4" Square Box (Wheelock BB-STD)	30.02	12.06
		EA	Black, Backbox For UZC-256 (Wheelock BB-UZC)	160.66	24.13
		EA	Red, Backbox For UZC-256 (Wheelock BB-UZC-R)	160.66	24.13
		EA	9" x 12" x 2.75", For Two XP Boards, Surface Mounted Cabinet (Wheelock BB-XP)	119.79	19.30
		EA	Red, Extender Ring For E60 Series (Wheelock E60EXT-R)	17.46	4.83
		EA	White, Extender Ring For E60 Series (Wheelock E60EXT-W)	17.23	4.83
		EA	Red, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-R)	41.53	12.06
		EA	White, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-W)	39.74	12.06
		EA	Red, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-R)	42.42	12.06
		EA	White, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-W)	42.42	12.06
		EA	4" Square Backbox (Wheelock DBB-R).....	34.39	12.06
		EA	Red, Surface Backbox (Wheelock IOB-R)	40.63	12.06
		EA	White, Surface, Backbox (Wheelock IOB-W)	40.63	12.06
		EA	White, Indoor, Surface Extender (Wheelock ISP2-W)	16.56	4.83
		EA	Red, RS/RSS Strobe Trim Plate (Wheelock NATP-R).....	17.23	4.83
		EA	White, RS/RSS Strobe Trim Plate (Wheelock NATP-W)	17.23	4.83
		EA	Red Retrofit Plate (Wheelock RP-R).....	19.91	4.83
		EA	4" Speaker/Strobe Ceiling Tile Support Bracket (Wheelock SSB-4).....	28.39	4.83
		EA	Red, Surface Mounted, Backbox For Chimes, Speakers (Wheelock SBB-R)	42.42	12.06
		EA	White, Surface Mounted, Backbox For Chimes, Speaker (Wheelock SBB-W)	42.42	12.06
		EA	Red, Surface Mounted, Backbox For With RSSP (Wheelock SBL2-R)	45.76	12.06
		EA	Red, Semi-Flush Plate (Wheelock SFB-R)	17.90	4.83
		EA	White, Semi-Flush Plate (Wheelock SFB-W).....	17.90	4.83
		EA	Red, Shallow Surface Mounted, Backbox (Wheelock SHBB-R)	37.51	12.06
		EA	White, Shallow Surface Mounted, Backbox (Wheelock SHBB-W)	37.51	12.06
		EA	Red, Adapter Plate For Mounting Sth-15S And Sth-15SR (Wheelock SHMP-R).....	24.59	4.83
		EA	Red, Weatherproof Backbox (Wheelock WBB).....	52.68	12.06
		EA	Weather Resistant Backbox (Wheelock WBB-R).....	42.42	12.06
		EA	Red, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-R)	31.28	4.83
		EA	White, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-W)	31.28	4.83
		EA	Red, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-R)	31.28	4.83
		EA	White, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-W)	31.28	4.83
		EA	Gasket Kit For Rear Wiring To Outdoor Backbox (Wheelock WP-KIT).....	17.90	4.83
		EA	Weather Resistant Backbox For ASWP (Wheelock WPBB-R)	44.65	12.06
		EA	Weather Resistant Backbox For RSSWP (Wheelock WPSBB-R)	42.42	12.06
28 46 21 33-2239 Manual Pull Station <small>(28 46 21 33-2107)</small>					
		EA	SPST, Single Action, Manual Pull Station (Eaton Wheelock MPS-100)	89.67	24.13
		EA	SPST, Double Action, Manual Pull Station (Eaton Wheelock MPS-200)	89.67	24.13
		EA	Explosion Proof, Single Action Manual Pull Station (Eaton Wheelock MPS-400X)	673.67	24.13
28 46 21 33-2243 Fire Alarm Terminal Cabinets <small>(28 46 21 33)</small>					
		EA	18 Point Lockable Fire Alarm Terminal Cabinet.....	168.89	48.32
		EA	32 Point Lockable Fire Alarm Terminal Cabinet.....	212.26	48.32
		EA	64 Point Lockable Fire Alarm Terminal Cabinet.....	298.98	48.32
		EA	128 Point Lockable Fire Alarm Terminal Cabinet.....	385.67	48.32
28 47 Mass Notification <small>(28 40)</small>					



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 00 00-0001 Voice Capable Omni-Directional Speakers (28 47)		
28 47 00 00-0002 EA 1 Cell, 109 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2901A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	8,161.89	613.02
28 47 00 00-0003 EA 2 Cells, 115 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2902A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	9,874.38	639.66
28 47 00 00-0004 EA 3 Cells, 119 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2903A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	11,586.88	666.32
28 47 00 00-0005 EA 4 Cells, 121 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2904A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	13,299.38	692.97
28 47 00 00-0006 EA 5 Cells, 123 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2905A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	14,989.57	719.63
28 47 00 00-0007 EA 6 Cells, 125 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2906A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	18,307.97	746.28
28 47 00 00-0008 EA 7 Cells, 126 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2907A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	20,020.47	772.93
28 47 00 00-0009 EA 8 Cells, 127 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2908A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	21,866.79	799.58
28 47 00 00-0010 EA 9 Cells, 128 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2909A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	23,601.59	826.24
28 47 00 00-0011 EA 10 Cells, 129 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2910A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	25,314.10	852.89
28 47 00 00-0012 EA 3 Cells, 127 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4003) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	17,995.71	746.28
28 47 00 00-0013 EA 4 Cells, 129 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4004) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	19,150.61	772.93
28 47 00 00-0014 EA One-Way Control, 10 Digit DTMF Landline (Whelen D2030LL).....	391.73	24.13
28 47 00 00-0015 EA VHF High-Band Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NV).....	1,279.43	24.13
28 47 00 00-0016 EA UHF Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NU).....	1,319.58	24.13
28 47 00 00-0017 EA UHF Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WU).....	1,319.58	24.13
28 47 00 00-0018 EA VHF High-Band Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WV).....	1,279.43	24.13
28 47 00 00-0019 EA Two-Tone Sequential Option (Whelen WPSTT).....	315.90	24.13
28 47 00 00-0020 EA Full Function Auxiliary/Status Board For Contact Closure Activation (Two Way) (Whelen AUXCS).....	454.18	24.13
28 47 00 00-0021 EA Landline, 10 Digit DTMF (Whelen C2030LL).....	480.95	24.13
28 47 00 00-0022 EA VHF High-Band Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NV).....	1,591.69	24.13
28 47 00 00-0023 EA UHF Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NU).....	1,591.69	24.13
28 47 00 00-0024 EA UHF Wide-Band, 10 Digit DTMF (Whelen C2030WU).....	1,591.69	24.13
28 47 00 00-0025 EA VHF High-Wide Band, 10 Digit DTMF (Whelen C2030WV).....	1,591.69	24.13
28 47 00 00-0026 EA Option To Convert WPS Activation Controls To FSK Format (Whelen FSXKMOD).....	574.62	24.13
28 47 00 00-0027 EA Cabinet Window LED Status Indicator (Whelen STATUS).....	338.20	24.13
28 47 00 00-0028 EA Paging Interface Whelen Tones With Existing In-Plant Systems (Whelen PGINT).....	298.05	24.13
28 47 00 00-0029 EA Intrusion Alarm (Whelen INTRUWPS).....	226.68	24.13
28 47 00 00-0030 EA Custom Pre-Recorded Messages (One Time Set-Up Charge Per Message) (Whelen MSGPROG).....	156.13	
28 47 00 00-0031 EA Whelen Library Messages (Whelen MSGPROG).....	31.23	
28 47 00 00-0032 EA Noise Cancelling Microphone Includes Local Microphone Input Harness (Whelen WPSNCMIC).....	124.08	24.13
28 47 00 00-0033 EA One Pair Of Whelen Approved Batteries (Whelen WPSBATT).....	612.14	36.19
28 47 00 00-0034 EA WPS And OA Series, Roof Top Mounted (Whelen RTM).....	7,519.98	586.36
28 47 00 00-0035 EA Two 80 Watt Panels, Solar Power System (Whelen SBC280)..... Note: Includes mounting bracket and regulator.	2,965.99	144.75
28 47 00 00-0036 EA Amber, 6 LED Lights For The Base Of WPS Series (Whelen VALERTA).....	1,499.84	36.19
28 47 00 00-0037 EA Blue, 6 LED Lights For The Base Of WPS Series (Whelen VALERTB).....	1,499.84	36.19
28 47 00 00-0038 EA Clear, 6 LED Lights For The Base Of WPS Series (Whelen VALERTC).....	1,499.84	36.19
28 47 00 00-0039 EA Green, 6 LED Lights For The Base Of WPS Series (Whelen VALERTG).....	1,499.84	36.19
28 47 00 00-0040 EA Red, 6 LED Lights For The Base Of WPS Series Products (Whelen VALERTR).....	1,499.84	36.19
28 47 00 00-0041 EA Amber, 24 VDC, LED, Beacon (Whelen L31HAF4).....	568.42	36.19
28 47 00 00-0042 EA Blue, 24 VDC, LED, Beacon (Whelen L31HBF4).....	568.42	36.19
28 47 00 00-0043 EA Red, 24 VDC, LED, Beacon (Whelen L31HRF4).....	568.42	36.19
28 47 00 00-0044 EA Amber, 24 VDC, Strobe (Whelen ISB24A).....	460.47	36.19
28 47 00 00-0045 EA Blue, 24 VDC, Strobe (Whelen ISB24B).....	460.47	36.19
28 47 00 00-0046 EA Clear, 24 VDC, Strobe (Whelen ISB24C).....	460.47	36.19
28 47 00 00-0047 EA Green, 24 VDC, Strobe (Whelen ISB24G).....	460.47	36.19
28 47 00 00-0048 EA Red, 24 VDC, Strobe (Whelen ISB24R).....	460.47	36.19
28 47 00 00-0049 EA Strobe/LED Controller With Mounting Plate, Hardware And Harnessing For ISB24 (Whelen SCWPS).....	583.55	24.13
28 47 00 00-0050 EA Strobe Controller (Whelen STCTRL).....	485.41	24.13
28 47 00 00-0051 EA LED Controller (Whelen LEDCTRL).....	485.41	24.13
28 47 00 00-0052 EA Replacement Speaker Driver Handle/Plate Assembly Only (Less Speaker Driver) (Whelen EZ-PULL).....	250.81	36.19
28 47 00 00-0053 EA Siren Diagnostic and Programming Software In CD Format (Whelen SDPTS).....	416.04	
28 47 00 00-0054 EA 400 Watt Speaker Driver (Whelen SPKDRV).....	672.76	24.13
28 47 00 00-0055 EA Cabinet Window LED Status Indicator (Whelen STATUS).....	338.20	24.13
28 47 00 00-0056 EA Noise Cancelling Microphone Option For Encoder (Whelen WPSMIC).....	124.08	24.13
28 47 00 00-0057 EA Notifier/Whelen Interface Board (Whelen NAUXCS).....	605.85	24.13
28 47 00 00-0058 Tone Only, Omni-Alert Sirens (28 47)		
28 47 00 00-0059 EA One Cell, Tone Only, Omni-Alert Siren (Whelen OA1)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	7,207.72	586.36
28 47 00 00-0060 EA Two Cell, Tone Only, Omni-Alert Siren (Whelen OA2)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	8,790.87	613.02
28 47 00 00-0061 EA Three Cell, Tone Only, Omni-Alert Siren (Whelen OA3)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	10,373.99	639.66
28 47 00 00-0062 EA Four Cell, Tone Only, Omni-Alert Siren (Whelen OA4)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	11,961.59	666.32
28 47 00 00-0063 EA One Way Controls, Auxiliary Board For Contact Closure Activation (Whelen OAUIN).....	213.30	24.13



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
				28 47 00 00-0064 EA One Way Landline Activation, 10 Digit DTMF (Whelen OD2030LL).....	391.73	24.13	
				28 47 00 00-0065 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen OD230NV).....	1,279.43	24.13	
				28 47 00 00-0066 EA UHF Narrow-Band, 10 Digit DTMF (Whelen OD230NU).....	1,319.58	24.13	
				28 47 00 00-0067 EA UHF Wide-Band, 10 Digit DTMF (Whelen OD230WU).....	1,319.58	24.13	
				28 47 00 00-0068 EA VHF High-Wide Band, 10 Digit DTMF (Whelen OD230WV).....	1,279.43	24.13	
				28 47 00 00-0069 EA One-Way Control Two-Tone Sequential Option (Whelen OTT).....	315.90	24.13	
				28 47 00 00-0070 EA Two Way Controls, Contact Closure Activation Board (Whelen OAUXCS).....	454.18	24.13	
				28 47 00 00-0071 EA Two Way Landline Activation (Whelen OC2030LL).....	480.95	24.13	
				28 47 00 00-0072 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen OC230NV).....	1,591.69	24.13	
				28 47 00 00-0073 EA UHF Narrow-Band, 10 Digit DTMF (Whelen OC230NU).....	1,591.69	24.13	
				28 47 00 00-0074 EA UHF, 10 Digit DTMF (Whelen OC230WU).....	1,591.69	24.13	
				28 47 00 00-0075 EA VHF High Band, 10 Digit DTMF (Whelen OC230WV).....	1,591.69	24.13	
				28 47 00 00-0076 EA Converts The Omni-Alert Siren Activation Controls To FSK Format (Whelen OFSKXMOD).....	574.62	24.13	
				28 47 00 00-0077 EA Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen OPGINT).....	298.05	24.13	
				28 47 00 00-0078 EA Cabinet Window LED Status Indicator (Whelen OSTATUS).....	338.20	24.13	
				28 47 00 00-0079 EA Intrusion Alarm (Whelen OINTRU).....	182.07	24.13	
				28 47 00 00-0080 EA 80 Watt Solar Power Option (Whelen OSBC280).....	2,965.99	144.75	
				28 47 00 00-0081 EA One Pair Of Whelen Approved Batteries For Omialert (Whelen BSETO).....	554.15	36.19	
28 47 00 00-0082		Tone-Only Rotating Directional Speakers (28 47)					
				28 47 00 00-0083 EA 3 Cells, 127 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR3).....	13,968.50	692.97	
				Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.			
				28 47 00 00-0084 EA 4 Cells, 129 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR4).....	14,922.66	719.63	
				Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.			
				28 47 00 00-0085 EA Limited Function Auxiliary Board For Contact Closure Activation (Whelen VAUXIN).....	213.30	24.13	
				28 47 00 00-0086 EA Landline, 10 Digit DTMF (Whelen VD2030LL).....	391.73	24.13	
				28 47 00 00-0087 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen VD230NV).....	1,279.43	24.13	
				28 47 00 00-0088 EA UHF Narrow-Band, 10 Digit DTMF (Whelen VD230NU).....	1,319.58	24.13	
				28 47 00 00-0089 EA UHF Wide-Band, 10 Digit DTMF (Whelen VD230WU).....	1,319.58	24.13	
				28 47 00 00-0090 EA VHF High-Wide Band, 10 Digit DTMF (Whelen VD230WV).....	1,279.43	24.13	
				28 47 00 00-0091 EA Two-Tone Sequential Option (Order One-Way Control Option, Above, VD2020LI, VD2020H, VD2020U) (Whelen VORTT).....	315.90	24.13	
				28 47 00 00-0092 EA Full Function Auxiliary/Status Control Board For Contact Closure Activation (Whelen VAUXCS).....	454.18	24.13	
				28 47 00 00-0093 EA Landline, 10 Digit DTMF (Whelen VC2030LL).....	480.95	24.13	
				28 47 00 00-0094 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen VC230NV).....	1,591.69	24.13	
				28 47 00 00-0095 EA UHF Narrow-Band, 10 Digit DTMF (Whelen VC230NU).....	1,591.69	24.13	
				28 47 00 00-0096 EA UHF, 10 Digit DTMF (Whelen VC230WU).....	1,591.69	24.13	
				28 47 00 00-0097 EA VHF High Band, 10 Digit DTMF (Whelen VC230WV).....	1,591.69	24.13	
				28 47 00 00-0098 EA Option To Convert The Vortex Activation Controls To FSK Format (Whelen VFSKXMOD).....	574.62	24.13	
				28 47 00 00-0099 EA Cabinet Window LED Status Indicator (Whelen VSTATUS).....	338.20	24.13	
				28 47 00 00-0100 EA Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen VPGINT).....	298.05	24.13	
				28 47 00 00-0101 EA Vortex Intrusion Alarm (Whelen VINTRU).....	182.07	24.13	
				28 47 00 00-0102 EA Speaker Pole Top Bracket (Whelen VPTB).....	463.10	24.13	
				28 47 00 00-0103 EA 80 Watt Solar Power Option (Whelen VSBC280).....	2,965.99	144.75	
				28 47 00 00-0104 EA One Pair Of Whelen Approved Batteries For Vortex Series (Whelen BSETVOR).....	554.15	36.19	
				28 47 00 00-0105 EA Program Charge For Custom VROM Message (Whelen VPROG).....	1,988.62		
28 47 00 00-0106		Uni-Directional Rotating Speakers (28 47)					
				28 47 00 00-0107 EA 118 dB, Uni-Directional Rotating Speaker (Whelen HORNET).....	9,410.92	613.02	
				28 47 00 00-0108 EA One Way Contact Closure Activation Control Board (Whelen HAUXIN).....	213.30	24.13	
				28 47 00 00-0109 EA Landline, One Way Control, 10 Digit DTMF (Whelen HD2030LL).....	391.73	24.13	
				28 47 00 00-0110 EA VHF High-Narrow Band, One Way Control, 10 Digit DTMF (Whelen HD230NV).....	1,279.43	24.13	
				28 47 00 00-0111 EA UHF Narrow-Band, One Way Control, 10 Digit DTMF (Whelen HD230NU).....	1,319.58	24.13	
				28 47 00 00-0112 EA UHF Wide-Band, One Way Control, 10 Digit DTMF (Whelen HD230WU).....	1,319.58	24.13	
				28 47 00 00-0113 EA VHF High-Wide Band, One Way Control, 10 Digit DTMF (Whelen HD230WV).....	1,279.43	24.13	
				28 47 00 00-0114 EA Two-Tone Sequential Option For Hornet (Whelen HORTT).....	315.90	24.13	
				28 47 00 00-0115 EA Two Way Contact Closure Activation And Status Control Board (Whelen HAUXCS).....	454.18	24.13	
				28 47 00 00-0116 EA Landline, Two Way Control, 10 Digit DTMF (Whelen HC2030LL).....	480.95	24.13	
				28 47 00 00-0117 EA VHF High-Narrow Band, Two Way Control, 10 Digit DTMF (Whelen HC230NV).....	1,591.69	24.13	
				28 47 00 00-0118 EA UHF Narrow-Band, Two Way Control, 10 Digit DTMF (Whelen HC230NU).....	1,591.69	24.13	
				28 47 00 00-0119 EA UHF, Two Way Control, 10 Digit DTMF (Whelen HC230WU).....	1,591.69	24.13	
				28 47 00 00-0120 EA VHF High Band, Two Way Control, 10 Digit DTMF (Whelen HC230WV).....	1,591.69	24.13	
				28 47 00 00-0121 EA Converts Siren Activation Controls To FSK Format (Whelen HFSKXMOD).....	574.62	24.13	
				28 47 00 00-0122 EA LED Status Indicator (Whelen HSTATUS).....	338.20	24.13	
				28 47 00 00-0123 EA Option For Paging Interface (Whelen HPGINT).....	298.05	24.13	
				28 47 00 00-0124 EA Intrusion Alarm (Whelen HINTRU).....	182.07	24.13	
				28 47 00 00-0125 EA Solar Power Option (Whelen HSBC280).....	2,965.99	144.75	
				28 47 00 00-0126 EA Pole Top Bracket For Speaker (Whelen HPTB).....	463.10	24.13	
				28 47 00 00-0127 EA One Pair Of Whelen Approved Batteries (Whelen BSETF).....	554.15	36.19	
28 47 00 00-0128		All Hazard In-Plant Personnel Warning System (28 47)					
				28 47 00 00-0129 EA 400 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS400).....	5,023.45	772.01	
				28 47 00 00-0130 EA 800 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS800).....	6,072.93	868.52	
				28 47 00 00-0131 EA 15 Watt, Wide Angle Speaker (Whelen WS15T).....	273.12	36.19	
				28 47 00 00-0132 EA Recess Mounted, 15 Watt Speaker (Whelen WS15TR).....	224.05	36.19	
				28 47 00 00-0133 EA With Grill, Recess Mounted, 15 Watt Speaker (Whelen WS15TEN).....	424.78	36.19	
				28 47 00 00-0134 EA 30 Watt, Wide Angle Speaker (Whelen WS30T).....	335.57	36.19	
				28 47 00 00-0135 EA 60 Watt, Wide Angle Speaker (Whelen WS60T).....	683.51	36.19	

28 Electronic Safety And Security**28 40 Life Safety****28 47 Mass Notification**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 00 00-0136	EA		Explosion-Proof, 60 Watt, Wide Angle Speaker (Whelen WSXPL6T).....	1,045.56	41.01
28 47 00 00-0137	EA		100 Watt, Wide Angle Speaker (Whelen WS100).....	478.31	36.19
28 47 00 00-0138	EA		Weatherproof Housing, 100 Watt, Wide Angle Speaker (Whelen WS100TCH).....	724.39	41.01
28 47 00 00-0139	EA		Intrusion Alarm For Whelen Outdoor Speaker Cabinets (Whelen INTRU).....	226.68	24.13
28 47 00 00-0140			Firehouse Siren ^(28 47)		
28 47 00 00-0141	EA		Auxiliary Board Contact Closure (Whelen FAUXIN).....	213.30	24.13
28 47 00 00-0142	EA		Two-Tone Sequential Option (Whelen FTT).....	315.90	24.13
28 47 00 00-0143	EA		Auxiliary/Status Control Board (Whelen FAUXCS).....	454.18	24.13
28 47 00 00-0144	EA		Landline, 10 Digit DTMF (Whelen FC2030LL).....	480.95	24.13
28 47 00 00-0145	EA		VHF High-Narrow Band, 10 Digit DTMF (Whelen FC230NV).....	1,591.69	24.13
28 47 00 00-0146	EA		UHF Narrow-Band, 10 Digit DTMF (Whelen FC230NU).....	1,591.69	24.13
28 47 00 00-0147	EA		UHF, 10 Digit DTMF (Whelen FC230WU).....	1,591.69	24.13
28 47 00 00-0148	EA		VHF High Band, 10 Digit DTMF (Whelen FC230WV).....	1,591.69	24.13
28 47 00 00-0149	EA		Paging Interface Control Option (Whelen FPGINT).....	298.05	24.13
28 47 00 00-0150	EA		Intrusion Alarm Control Option (Whelen FINTRU).....	182.07	24.13
28 47 00 00-0151	EA		Solar Power Option (Whelen FSBC280).....	2,965.99	144.75
			Note: Two 80 watt panels, with brackets and solar regulator.		
28 47 00 00-0152			Central Station Controls ^(28 47)		
28 47 00 00-0153	EA		Desktop 18 Function Base Station Control/Encoder (Whelen E747).....	643.81	
28 47 00 00-0154	EA		Desktop 35 Function Base Station Control/Encoder (Whelen E969).....	1,045.28	
28 47 00 00-0155	EA		Desktop Central Station Control Encoder/Decoder (Whelen E2010).....	2,517.35	
28 47 00 00-0156	EA		Siren Status Printer And Cable Option For E2010 (Whelen E2010P).....	797.66	24.13
28 47 00 00-0157	EA		Rack Mounted Central Station Control Encoder/Decoder (Whelen E2010R).....	2,903.16	24.13
28 47 00 00-0158	EA		Internal Option To Convert E2010 To FSK Format (Whelen E2010FSK).....	449.72	24.13
28 47 00 00-0159	EA		Option To Convert Activation Controls To FSK Format (Whelen FSKCEO).....	574.62	24.13
28 47 00 00-0160			Alert Monitor And Message Display ^(28 47)		
28 47 00 00-0161	EA		Alert Monitor With Radio Receiver VHF High Band (Whelen V2000H).....	1,172.37	24.13
28 47 00 00-0162	EA		Alert Monitor VHF High-Narrow Band (Whelen V2000NH).....	1,172.37	24.13
28 47 00 00-0163	EA		Alert Monitor UHF Narrow-Band (Whelen V2000NU).....	1,172.37	24.13
28 47 00 00-0164	EA		Alert Monitor With Radio Receiver UHF (Whelen V2000U).....	1,172.37	24.13
28 47 00 00-0165	EA		Internal Battery And Charger For VA2000 Series (Whelen VA2BATT).....	192.82	36.19
28 47 00 00-0166	EA		Mounting Bracket For Under Cabinet Or Vehicle Mounting - VA2000 Series (Whelen VA2MTG).....	57.17	24.13
28 47 00 00-0167	EA		Factory Programming Of 1 To 15 VA2000 Display Messages (Whelen VA2PROGA).....	98.14	
28 47 00 00-0168	EA		Factory Programming Of 16 To 45 VA2000 Display Messages (Whelen VA2PROGB).....	156.13	
28 47 00 00-0169			Portable Test Set ^(28 47)		
28 47 00 00-0170	EA		VHF High Band, Portable Test Set (Whelen PT2010H).....	5,352.96	
28 47 00 00-0171	EA		VHF Low Band, Portable Test Set (Whelen PT2010L).....	5,352.96	
28 47 00 00-0172	EA		UHF, Portable Test Set (Whelen PT2010U).....	5,352.96	
28 47 00 00-0173			Replacement Warning Lights ^(28 47)		
28 47 00 00-0174	EA		Amber, Incandescent, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024A).....	300.24	38.60
28 47 00 00-0175	EA		Blue, Incandescent, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024B).....	300.24	38.60
28 47 00 00-0176	EA		Clear, Incandescent, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024C).....	300.24	38.60
28 47 00 00-0177	EA		Green, Incandescent, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024G).....	300.24	38.60
28 47 00 00-0178	EA		Red, Incandescent, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024R).....	300.24	38.60
28 47 00 00-0179	EA		Amber, Incandescent, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120IA).....	211.02	38.60
28 47 00 00-0180	EA		Blue, Incandescent, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120IB).....	211.02	38.60
28 47 00 00-0181	EA		Clear, Incandescent, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120IC).....	211.02	38.60
28 47 00 00-0182	EA		Green, Incandescent, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120IG).....	211.02	38.60
28 47 00 00-0183	EA		Red, Incandescent, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120IR).....	211.02	38.60
28 47 00 00-0184	EA		Amber, Halogen, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024HA).....	300.24	38.60
28 47 00 00-0185	EA		Blue, Halogen, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024HB).....	300.24	38.60
28 47 00 00-0186	EA		Clear, Halogen, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024HC).....	300.24	38.60
28 47 00 00-0187	EA		Green, Halogen, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024HG).....	300.24	38.60
28 47 00 00-0188	EA		Red, Halogen, 24 VDC, Industrial Rotating Warning Light (Whelen IR3024HR).....	300.24	38.60
28 47 00 00-0189	EA		Amber, Halogen, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120HA).....	219.95	38.60
28 47 00 00-0190	EA		Blue, Halogen, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120HB).....	219.95	38.60
28 47 00 00-0191	EA		Clear, Halogen, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120HC).....	219.95	38.60
28 47 00 00-0192	EA		Green, Halogen, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120HG).....	219.95	38.60
28 47 00 00-0193	EA		Red, Halogen, 120 VAC, Industrial Rotating Warning Light (Whelen IR3120HR).....	219.95	38.60
28 47 00 00-0194			Antenna ^(28 47)		
28 47 00 00-0195	EA		50' Antenna Cable (Honeywell Ademco 7626-50HC).....	181.37	
28 47 00 00-0196	EA		External/Remote Weatherproof Antenna (Honeywell Ademco GSM-ANT3DB).....	180.57	
28 47 00 00-0197	EA		80GHz Millimeter Wave Radio (BridgeWave Flex4G-1000).....	8,392.69	



Electronic Safety And Security	28	28
Life Safety	28 40	
Mass Notification	28 47	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 28

28 Electronic Safety And Security

28 40 Life Safety

28 47 Mass Notification



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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Earthwork	31	13
Maintenance of Earthwork	31 01	
Maintenance of Earth Moving	31 01 20	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 Earthwork

31 01 Maintenance of Earthwork ⁽³¹⁾

31 01 20 Maintenance of Earth Moving ^(31 01)

31 01 20 00-0001 Rip Settling Basins ^(31 01 20)

Note: Rip through light soil and sand in settling basin. 8' on center (machine width).

31 01 20 00-0002	ACR Rip Light Soil And Sand, By Dozer	527.80
31 01 20 00-0003	ACR Rip Light Soil And Sand, By Grader With Rear Ripper	823.43
31 01 20 00-0004	ACR Rip Light Soil And Sand, By Rubber Tire Front End Loader	713.28

31 05 Common Work Results For Earthwork ⁽³¹⁾

31 05 13 Soils For Earthwork ^(31 05)

Note: Includes delivery up to 15 miles from the closest approved source and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0051 for hauling greater than 15 miles.

31 05 13 00-0001 Fill Material (Loose, Purchased Material) ^(31 05 13)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0051 for hauling greater than 15 miles.

31 05 13 00-0002	CY Bank Run/Fill Sand	38.64
	For Up To 10, Add	10.94
	For >10 To 25, Add	3.86
31 05 13 00-0003	CY Screened/Washed Filter/Septic Sand	30.06
	For Up To 10, Add	8.37
	For >10 To 25, Add	3.01
31 05 13 00-0004	CY 3/8" Minus, ASTM C33, Screened/Washed Bedding Sand	59.64
	For Up To 10, Add	17.24
	For >10 To 25, Add	5.96
31 05 13 00-0005	CY 3/16" Minus, Screened/Washed Concrete Sand	32.68
	For Up To 10, Add	9.15
	For >10 To 25, Add	3.27
31 05 13 00-0006	CY 3/32" Minus, Screened/Washed Masonry/Mortar Sand	39.23
	For Up To 10, Add	11.12
	For >10 To 25, Add	3.92
31 05 13 00-0007	CY Native Soil/Dirt - Common Fill	50.02
	For Up To 10, Add	14.36
	For >10 To 25, Add	5.00
31 05 13 00-0008	CY Lime Rock Screening	23.83
	For Up To 10, Add	6.50
	For >10 To 25, Add	2.38
31 05 13 00-0009	CY Crushed Lime Rock Maximum 3-1/2"	22.50
	For Up To 10, Add	6.10
	For >10 To 25, Add	2.25
31 05 13 00-0010	CY Sand/Clay	37.90
	For Up To 10, Add	10.72
	For >10 To 25, Add	3.79
31 05 13 00-0011	CY Recycled Concrete Aggregate	43.03
	For Up To 10, Add	12.26
	For >10 To 25, Add	4.30
31 05 13 00-0012	CY Pitrun Clay	31.05
	For Up To 10, Add	8.66
	For >10 To 25, Add	3.11
31 05 13 00-0013	CY Light Clay / Loam	43.83
	For Up To 10, Add	12.50
	For >10 To 25, Add	4.38
31 05 13 00-0014	CY Heavy Clay	37.49
	For Up To 10, Add	10.60
	For >10 To 25, Add	3.75
31 05 13 00-0015	CY SDG&E Sand	33.02
31 05 13 00-0016	TON SDG&E B20 Sand	34.80

31 05 16 Aggregates For Earthwork ^(31 05)

See CSI section 01 74 19 00-0051 for hauling greater than 15 miles.

31 05 16 00-0001 Aggregate (Loose, Purchased Material) ^(31 05 16)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0051 for hauling greater than 15 miles, 01 74 19 00-0053 for hauling greater than 15 miles.

31 05 16 00-0002	CY #2 Stone Aggregate Fill (1-1/2" To 2-1/2" Clean)	32.60
	For Up To 10, Add	9.13
	For >10 To 25, Add	3.26
31 05 16 00-0003	CY #3 Stone Aggregate Fill (1" To 2" Clean)	29.13
	For Up To 10, Add	8.09
	For >10 To 25, Add	2.91
31 05 16 00-0004	CY #4 Stone Aggregate Fill (3/4" To 1-1/2" Clean)	29.57
	For Up To 10, Add	8.22
	For >10 To 25, Add	2.96

31 Earthwork
31 05 Common Work Results For Earthwork
31 05 16 Aggregates For Earthwork



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0005	CY		#5 Stone Aggregate Fill (1/2" To 1" Clean)	31.66	
			For Up To 10, Add	8.85	
			For >10 To 25, Add	3.17	
31 05 16 00-0006	CY		#6 Stone Aggregate Fill (3/8" To 3/4" Clean)	32.08	
			For Up To 10, Add	8.97	
			For >10 To 25, Add	3.21	
31 05 16 00-0007	CY		#56 Stone Aggregate Fill (3/8" To 1")	32.94	
			For Up To 10, Add	9.23	
			For >10 To 25, Add	3.29	
31 05 16 00-0008	CY		#57 Stone Aggregate Fill (#4 To 1")	33.45	
			For Up To 10, Add	9.38	
			For >10 To 25, Add	3.35	
31 05 16 00-0009	CY		#67 Or #68 Stone Aggregate Fill (#4 To 3/4")	33.93	
			For Up To 10, Add	9.53	
			For >10 To 25, Add	3.39	
31 05 16 00-0010	CY		#7 Stone Aggregate Fill (1/2" To #4)	34.01	
			For Up To 10, Add	9.55	
			For >10 To 25, Add	3.40	
31 05 16 00-0011	CY		#78 Stone Aggregate Fill (#8 To 1/2")	34.87	
			For Up To 10, Add	9.81	
			For >10 To 25, Add	3.49	
31 05 16 00-0012	CY		#8 Stone Aggregate Fill (3/8" x 1/8")	35.73	
			For Up To 10, Add	10.07	
			For >10 To 25, Add	3.57	
31 05 16 00-0013	CY		#89 Stone Aggregate Fill (#16 To 3/8")	35.86	
			For Up To 10, Add	10.11	
			For >10 To 25, Add	3.59	
31 05 16 00-0014	CY		#9 Stone Aggregate Fill (1/4" Clean)	36.00	
			For Up To 10, Add	10.15	
			For >10 To 25, Add	3.60	
31 05 16 00-0015	CY		#10 Stone Aggregate Fill (#8 To 3/4)	37.31	
			For Up To 10, Add	10.54	
			For >10 To 25, Add	3.73	
31 05 16 00-0016	CY		#610 Modified Stone Aggregate Fill (#16 To 3/4")	34.69	
			For Up To 10, Add	9.76	
			For >10 To 25, Add	3.47	
31 05 16 00-0017	CY		Screenings Stone Aggregate Fill	28.34	
			For Up To 10, Add	7.85	
			For >10 To 25, Add	2.83	
31 05 16 00-0018	CY		Stone Aggregate Fill, Random Size, Over 6" To 12"	32.73	
			For Up To 10, Add	9.17	
			For >10 To 25, Add	3.27	
31 05 16 00-0019	CY		Graded Stone Aggregate Fill, Over 6" To 12"	35.69	
			For Up To 10, Add	10.06	
			For >10 To 25, Add	3.57	
31 05 16 00-0020	CY		Surge Stone Aggregate Fill (3" To 7" Random)	33.87	
			For Up To 10, Add	9.51	
			For >10 To 25, Add	3.39	
31 05 16 00-0021	CY		Surge Stone Graded Aggregate Fill (3" To 7")	38.85	
			For Up To 10, Add	11.00	
			For >10 To 25, Add	3.89	
31 05 16 00-0022	CY		Crusher Run Aggregate Fill (2-1/2" Minus)	32.48	
			For Up To 10, Add	9.09	
			For >10 To 25, Add	3.25	
31 05 16 00-0023	CY		Crusher Run Aggregate Fill (1-1/2" Minus)	31.62	
			For Up To 10, Add	8.84	
			For >10 To 25, Add	3.16	
31 05 16 00-0024	CY		Crusher Run Aggregate Fill (3/4" Minus)	63.81	
			For Up To 10, Add	18.49	
			For >10 To 25, Add	6.38	
31 05 16 00-0025	CY		Silica Sand #20 (For Playground Use Only)	74.74	
			For Up To 10, Add	21.77	
			For >10 To 25, Add	7.47	
31 05 16 00-0026	CY		Graded Aggregate Base Fill (3/4" Minus) Class II Base	49.71	
			For Up To 10, Add	14.26	
			For >10 To 25, Add	4.97	

31 05 36 Equipment Delivery, Pickup, Mobilization And Demobilization ⁽³¹⁾

⁽⁰⁵⁾
See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

31 10 Site Clearing ⁽³¹⁾

31 11 Clearing And Grubbing ^(31 10)

31 11 00 00-0001 Clear And Grub Roots And Stumps ^(31 11)

Note: Tree diameter (diameter at breast height) is the diameter of the tree trunk measured at 4.5' above ground level. Based on tree density (light, medium or heavy) to be removed. Excludes loading. See CSI section 31 13 13 00-0001 for small areas or individual trees removal.

31 11 00 00-0002	ACR		Clear And Grub Light Trees Up To 6" Diameter, Cut And Chip	6,613.63	
			Note: Includes grub and removal of stump		
31 11 00 00-0003	ACR		Clear And Grub Light Stumps Only Up To 6" Diameter	1,700.00	
31 11 00 00-0004	ACR		Clear And Grub Medium Trees Up To 10" Diameter, Cut And Chip	7,715.90	
			Note: Includes grub and removal of stump		



Earthwork	31	13
Site Clearing	31 10	
Clearing And Grubbing	31 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 11 00 00-0005 ACR Clear And Grub Medium Stumps Only Up To 10" Diameter	2,833.33	
31 11 00 00-0006 ACR Clear And Grub Heavy Trees Up To 16" Diameter, Cut And Chip	8,768.06	
Note: Includes grub and removal of stump		
31 11 00 00-0007 ACR Clear And Grub Heavy Stumps Only Up To 16" Diameter	3,220.07	
31 11 00 00-0008 ACR Clearing By Machine - Light Brush Without Grub	259.69	
31 11 00 00-0009 ACR Clearing By Machine - Medium Brush Without Grub	536.05	
31 11 00 00-0010 ACR Clearing By Machine - Heavy Brush Without Grub	759.05	
31 11 00 00-0011 ACR Chipping - Light Brush	2,057.94	
31 11 00 00-0012 ACR Chipping - Medium Brush	2,646.06	
31 11 00 00-0013 ACR Chipping - Heavy Brush	3,704.82	
31 11 00 00-0014 Loading Of Cleared And Grubbed Material <small>(31 11)</small>		
See CSI section 01 74 19 00-0051 for hauling.		
31 11 00 00-0015 CY Machine Loading Of Cleared And Grubbed Material	9.02	
31 11 00 00-0016 CY Chute Loading Of Cleared And Grubbed Material	10.82	
31 11 00 00-0017 CY Hand Loading Of Cleared And Grubbed Material	31.88	
31 11 00 00-0018 CY Wheel And Ramp Loading Of Cleared And Grubbed Material	25.04	
31 13 Selective Tree And Shrub Removal And Trimming <small>(31 10)</small>		
31 13 13 Selective Tree And Shrub Removal <small>(31 13)</small>		
31 13 13 00-0001 Individual Tree Removal <small>(31 13 13)</small>		
Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding.		
31 13 13 00-0002 EA Up To 6" D.B.H. (Diameter At Breast Height) Tree Removal	482.24	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0003 EA >6" To 12" D.B.H. (Diameter At Breast Height) Tree Removal	723.36	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0004 EA >12" To 24" D.B.H. (Diameter At Breast Height) Tree Removal	964.49	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0005 EA >24" To 36" D.B.H. (Diameter At Breast Height) Tree Removal	1,446.73	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0006 EA >36" To 48" D.B.H. (Diameter At Breast Height) Tree Removal	1,928.97	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0007 EA >48" To 60" D.B.H. (Diameter At Breast Height) Tree Removal	2,411.21	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0008 EA >60" To 72" D.B.H. (Diameter At Breast Height) Tree Removal	2,893.46	
Note: Includes cutting up tree, chipping and loading.		
<i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i>		
	-602.80	
31 13 13 00-0009 EA >72" To 84" D.B.H. (Diameter At Breast Height) Tree Removal	3,857.95	
Note: Includes cutting up tree, chipping and loading.		
<i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i>		
	-964.49	
31 13 13 00-0010 Stump Removal <small>(31 13 13)</small>		
Note: Measured by diameter of stump.		
31 13 13 00-0011 Stump Removal By Machine <small>(31 13 13 00-0010)</small>		
31 13 13 00-0012 EA Up To 6" Diameter Stump Removal	85.00	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0013 EA >6" To 12" Diameter Stump Removal	162.91	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0014 EA >12" To 24" Diameter Stump Removal	212.50	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0015 EA >24" To 36" Diameter Stump Removal	318.76	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0016 EA >36" To 48" Diameter Stump Removal	375.44	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0017 EA >48" To 60" Diameter Stump Removal	442.00	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0018 EA >60" To 72" Diameter Stump Removal	524.17	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0019 EA >72" To 84" Diameter Stump Removal	616.25	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0020 Stump Removal By Hand <small>(31 13 13 00-0010)</small>		
31 13 13 00-0021 EA Up To 6" Diameter Stump Removal By Hand	511.86	
Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0022 EA >6" To 12" Diameter Stump Removal By Hand	639.83	
Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0023 EA >12" To 24" Diameter Stump Removal By Hand	938.41	
Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0024 EA >24" To 36" Diameter Stump Removal By Hand	1,279.65	
Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		

31 Earthwork**31 10 Site Clearing****31 13 Selective Tree And Shrub Removal And Trimming**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0025 EA >36" To 48" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,706.20	
31 13 13 00-0026 EA >48" To 60" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,132.74	
31 13 13 00-0027 EA >60" To 72" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,559.29	
31 13 13 00-0028 EA >72" To 84" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,985.84	
31 13 13 00-0029 Stump Grinding ^(31 13 13) Note: Measured by diameter of stump.		
31 13 13 00-0030 Stump Grinding, 18" Deep Below Surface Of Soil ^(31 13 13 00-0029) Note: Level soil to match existing surface area.		
31 13 13 00-0031 EA Stump Grinding Up To 6" Tree..... <i>For 24" Depth, Add</i>	93.19 18.64	
31 13 13 00-0032 EA Stump Grinding >6" To 12" Tree..... <i>For 24" Depth, Add</i>	124.26 24.85	
31 13 13 00-0033 EA Stump Grinding >12" To 15" Tree..... <i>For 24" Depth, Add</i>	139.79 27.96	
31 13 13 00-0034 EA Stump Grinding >15" To 18" Tree..... <i>For 24" Depth, Add</i>	155.32 31.06	
31 13 13 00-0035 EA Stump Grinding >18" To 21" Tree..... <i>For 24" Depth, Add</i>	166.97 33.39	
31 13 13 00-0036 EA Stump Grinding >21" To 24" Tree..... <i>For 24" Depth, Add</i>	178.63 35.73	
31 13 13 00-0037 EA Stump Grinding >24" To 27" Tree..... <i>For 24" Depth, Add</i>	194.16 38.83	
31 13 13 00-0038 EA Stump Grinding >27" To 30" Tree..... <i>For 24" Depth, Add</i>	210.70 42.14	
31 13 13 00-0039 EA Stump Grinding >30" To 33" Tree..... <i>For 24" Depth, Add</i>	234.11 46.82	
31 13 13 00-0040 EA Stump Grinding >33" To 36" Tree..... <i>For 24" Depth, Add</i>	249.73 49.95	
31 13 13 00-0041 EA Stump Grinding >36" To 42" Tree..... <i>For 24" Depth, Add</i>	280.94 56.19	
31 13 13 00-0042 EA Stump Grinding >42" To 48" Tree..... <i>For 24" Depth, Add</i>	312.16 62.43	
31 13 13 00-0043 EA Stump Grinding >48" To 60" Tree..... <i>For 24" Depth, Add</i>	390.20 78.04	
31 13 13 00-0044 EA Stump Grinding >60" To 72" Tree..... <i>For 24" Depth, Add</i>	487.74 97.55	
31 13 13 00-0045 EA Stump Grinding >72" To 84" Tree..... <i>For 24" Depth, Add</i>	624.31 124.86	
31 13 16 Selective Tree And Shrub Trimming ^(31 13)		
31 13 16 00-0001 Tree Trimming For Pole Line Construction And Maintenance ^(31 13 16) Note: Area to be vertical cleared (to include overhanging limbs) is minimum 20' wide (10' each side of structure) and 16' above ground. All materials to 6" D.B.H. (Diameter At Breast Height) to be chipped in place. Larger material may be chipped or disposed. Trees greater than 18" diameter use individual tree removal tasks. Quantity based on running foot of power line to be cleared.		
31 13 16 00-0002 LF Tree Trimming, Light Cutting To 6" Diameter For Pole Line Construction	1.58	
31 13 16 00-0003 LF Tree Trimming, Medium Cutting >6" To 12" Diameter For Pole Line Construction	2.38	
31 13 16 00-0004 LF Tree Trimming, Heavy Cutting >12" To 18" Diameter For Pole Line Construction	2.80	
31 20 Earth Moving ⁽³¹⁾ Note: Per OSHA -Soil Classification - 1926 Subpart P App A. Light material: Class A site material, normally referred to as "easy digging". Consisting of loose, soft, free running materials. Close lying, which will fill blade, digger or bucket to capacity, and frequently provide a heaped load. Materials such as dry sand, small gravel, unpacked earth, loam, etc., would fall into this category. Medium material: Class B site material, normally referred to as "medium and tough, wet and sticky clay would be examples of this medium digging", consisting of harder materials that are not difficult to dig without assistance such as ripping, blasting, etc. Material break up with some bulkiness causing voids in digger or bucket. Materials such as packed earth, common earth with some clay, soil with less than 25% rock content would be examples of this category. Heavy/wet material: Class C site material, normally referred to as "hard digging", consisting of materials which may require some assistance in breaking up. Bulky and somewhat hard to penetrate materials would be found in this category and voids in dipper or bucket would be common. Materials such as very hard packed soil, with up to 50% to 70% rock content and hard category. Soil conditions will be determined by soil analysis to provide appropriate percentage (%) for the various types of soil conditions. Apply the percentages to the various soil types to generate an appropriate representation of the soil condition.		
31 23 Excavation And Fill ^(31 20)		
31 23 16 Excavation ^(31 23)		
31 23 16 13 Trenching ^(31 23 16) Note: Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine.		
31 23 16 13-0001 Excavation For Trenching By Machine ^(31 23 16 13) Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		



Earthwork	31	15
Earth Moving	31 20	
Excavation And Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0002 CY 12" Wide or Less, Excavation for Trenching by Machine in Soil	8.75	
For Excavation In Light Material (Class A), Deduct	-1.09	
For Excavation In Heavy/Wet Material (Class C), Add	3.50	
For Up To 20, Add	7.00	
For >20 To 50, Add	4.38	
For >50 To 250, Add	2.19	
For >500 To 1,000, Deduct	-1.31	
For >1,000, Deduct	-2.63	
31 23 16 13-0003 CY Over 12" Wide, Excavation for Trenching by Machine in Soil	5.62	
For Excavation In Light Material (Class A), Deduct	-0.70	
For Excavation In Heavy/Wet Material (Class C), Add	2.25	
For Up To 20, Add	4.50	
For >20 To 50, Add	2.81	
For >50 To 250, Add	1.41	
For >500 To 1,000, Deduct	-0.84	
For >1,000, Deduct	-1.69	
31 23 16 13-0004 CY 12" Wide or Less, Excavation for Trenching by Machine in Loose Rock	14.49	
For Up To 20, Add	11.59	
For >20 To 50, Add	7.25	
For >50 To 250, Add	3.62	
For >500 To 1,000, Deduct	-2.17	
For >1,000, Deduct	-4.35	
31 23 16 13-0005 CY Over 12" Wide, Excavation for Trenching by Machine in Loose Rock	9.99	
For Up To 20, Add	7.99	
For >20 To 50, Add	5.00	
For >50 To 250, Add	2.50	
For >500 To 1,000, Deduct	-1.50	
For >1,000, Deduct	-3.00	
31 23 16 13-0006 Excavation For Trenching By Hand (31 23 16 13)		
31 23 16 13-0007 CY Excavation For Trenching By Hand In Soil	105.18	
Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		
31 23 16 13-0008 CY Excavation For Trenching By Hand In Loose Rock	180.43	
Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		
31 23 16 13-0009 Backfilling Or Placing Subbase For Trenches (31 23 16 13)		
Note: With imported or stockpiled materials.		
31 23 16 13-0010 CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine	3.16	
For Up To 20, Add	2.53	
For >20 To 50, Add	1.58	
For >50 To 250, Add	0.79	
For >500 To 1,000, Deduct	-0.47	
For >1,000, Deduct	-0.95	
31 23 16 13-0011 CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand	29.22	
31 23 16 13-0012 Compaction Of Fill Or Subbase For Trenches (31 23 16 13)		
Note: Includes restoration of final grade.		
31 23 16 13-0013 CY Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, Etcetera	6.09	
For Up To 20, Add	4.87	
For >20 To 50, Add	3.05	
For >50 To 250, Add	1.52	
For >500 To 1,000, Deduct	-0.91	
For >1,000, Deduct	-1.83	
31 23 16 13-0014 CY Compaction of Fill or Subbase for Trenches by Hand	32.96	
31 23 16 13-0015 Loading Excess Material For Removal From Excavation For Trenches (31 23 16 13)		
Note: Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0051 for hauling.		
31 23 16 13-0016 CY Load Excess Material by Machine for Removal from Excavation for Trenching	5.50	
For Up To 20, Add	4.40	
For >20 To 50, Add	2.75	
For >50 To 250, Add	1.38	
For >500 To 1,000, Deduct	-0.83	
For >1,000, Deduct	-1.65	
31 23 16 13-0017 CY Load Excess Material by Hand for Removal from Excavation for Trenching	77.13	
31 23 16 13-0018 Spread Excess Or Imported Material For Trenches (31 23 16 13)		
Note: Includes hand work by laborer for clean-up.		
31 23 16 13-0019 CY Spread Excess Or Imported Material On Site With Machine	2.62	
For Up To 20, Add	2.10	
For >20 To 50, Add	1.31	
For >50 To 250, Add	0.66	
For >500 To 1,000, Deduct	-0.39	
For >1,000, Deduct	-0.79	
31 23 16 13-0020 Direct Burial (Plowed-in) Cable Or Piping By Machine (31 23 16 13)		
Note: Includes trench, backfill, compaction and restoration of final grade.		
31 23 16 13-0021 LF Direct Burial of Cable or Piping up to 12" Deep	1.94	

31 Earthwork**31 20 Earth Moving****31 23 Excavation And Fill**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0022	LF		Direct Burial of Cable or Piping >12" to 24" Deep.....	2.14	
31 23 16 13-0023	LF		Direct Burial of Cable or Piping >24" to 36" Deep.....	3.04	
31 23 16 13-0024	LF		Direct Burial of Cable or Piping >36" to 48" Deep.....	3.43	
31 23 16 13-0025			Utility Chain Trencher <small>(31 23 16 13)</small>		
31 23 16 13-0026			Utility Trench, Chain Trencher <small>(31 23 16 13-0025)</small>		
			Note: Earth left adjacent to trench.		
31 23 16 13-0027	LF		4" Wide, 12" Deep Trench, Medium Soil, Chain Trencher.....	1.07	
			For >100 To 250, Deduct	-0.07	
			For >250 To 500, Deduct	-0.16	
			For >500, Deduct	-0.32	
31 23 16 13-0028	LF		4" Wide, 18" Deep Trench, Medium Soil, Chain Trencher.....	1.18	
			For >100 To 250, Deduct	-0.08	
			For >250 To 500, Deduct	-0.18	
			For >500, Deduct	-0.35	
31 23 16 13-0029	LF		4" Wide, 24" Deep Trench, Medium Soil, Chain Trencher.....	1.22	
			For >100 To 250, Deduct	-0.09	
			For >250 To 500, Deduct	-0.18	
			For >500, Deduct	-0.37	
31 23 16 13-0030	LF		6" Wide, 12" Deep Trench, Medium Soil, Chain Trencher.....	1.29	
			For >100 To 250, Deduct	-0.09	
			For >250 To 500, Deduct	-0.19	
			For >500, Deduct	-0.39	
31 23 16 13-0031	LF		6" Wide, 18" Deep Trench, Medium Soil, Chain Trencher.....	1.42	
			For >100 To 250, Deduct	-0.10	
			For >250 To 500, Deduct	-0.21	
			For >500, Deduct	-0.43	
31 23 16 13-0032	LF		6" Wide, 24" Deep Trench, Medium Soil, Chain Trencher.....	1.62	
			For >100 To 250, Deduct	-0.11	
			For >250 To 500, Deduct	-0.24	
			For >500, Deduct	-0.49	
31 23 16 13-0033	LF		6" Wide, 36" Deep Trench, Medium Soil, Chain Trencher.....	1.94	
			For >100 To 250, Deduct	-0.14	
			For >250 To 500, Deduct	-0.29	
			For >500, Deduct	-0.58	
31 23 16 13-0034	LF		8" Wide, 12" Deep Trench, Medium Soil, Chain Trencher.....	1.83	
			For >100 To 250, Deduct	-0.13	
			For >250 To 500, Deduct	-0.27	
			For >500, Deduct	-0.55	
31 23 16 13-0035	LF		8" Wide, 18" Deep Trench, Medium Soil, Chain Trencher.....	2.16	
			For >100 To 250, Deduct	-0.15	
			For >250 To 500, Deduct	-0.32	
			For >500, Deduct	-0.65	
31 23 16 13-0036	LF		8" Wide, 24" Deep Trench, Medium Soil, Chain Trencher.....	2.45	
			For >100 To 250, Deduct	-0.17	
			For >250 To 500, Deduct	-0.37	
			For >500, Deduct	-0.74	
31 23 16 13-0037	LF		8" Wide, 36" Deep Trench, Medium Soil, Chain Trencher.....	2.91	
			For >100 To 250, Deduct	-0.20	
			For >250 To 500, Deduct	-0.44	
			For >500, Deduct	-0.87	
31 23 16 13-0038			Backfill Trenches With Compaction <small>(31 23 16 13-0025)</small>		
31 23 16 13-0039	LF		Backfill 4" Wide, 12" Deep Trench, With Compaction.....	0.17	
			For >100 To 250, Deduct	-0.01	
			For >250 To 500, Deduct	-0.03	
			For >500, Deduct	-0.05	
31 23 16 13-0040	LF		Backfill 4" Wide, 18" Deep Trench, With Compaction.....	0.27	
			For >100 To 250, Deduct	-0.02	
			For >250 To 500, Deduct	-0.04	
			For >500, Deduct	-0.08	
31 23 16 13-0041	LF		Backfill 4" Wide, 24" Deep Trench, With Compaction.....	0.35	
			For >100 To 250, Deduct	-0.02	
			For >250 To 500, Deduct	-0.05	
			For >500, Deduct	-0.11	
31 23 16 13-0042	LF		Backfill 6" Wide, 12" Deep Trench, With Compaction.....	0.27	
			For >100 To 250, Deduct	-0.02	
			For >250 To 500, Deduct	-0.04	
			For >500, Deduct	-0.08	
31 23 16 13-0043	LF		Backfill 6" Wide, 18" Deep Trench, With Compaction.....	0.35	
			For >100 To 250, Deduct	-0.02	
			For >250 To 500, Deduct	-0.05	
			For >500, Deduct	-0.11	
31 23 16 13-0044	LF		Backfill 6" Wide, 24" Deep Trench, With Compaction.....	0.52	
			For >100 To 250, Deduct	-0.04	
			For >250 To 500, Deduct	-0.08	
			For >500, Deduct	-0.16	
31 23 16 13-0045	LF		Backfill 6" Wide, 36" Deep Trench, With Compaction.....	0.75	
			For >100 To 250, Deduct	-0.05	
			For >250 To 500, Deduct	-0.11	
			For >500, Deduct	-0.23	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0046 LF Backfill 8" Wide, 12" Deep Trench, With Compaction.....	0.35	
For >100 To 250, Deduct	-0.02	
For >250 To 500, Deduct	-0.05	
For >500, Deduct	-0.11	
31 23 16 13-0047 LF Backfill 8" Wide, 18" Deep Trench, With Compaction.....	0.52	
For >100 To 250, Deduct	-0.04	
For >250 To 500, Deduct	-0.08	
For >500, Deduct	-0.16	
31 23 16 13-0048 LF Backfill 8" Wide, 24" Deep Trench, With Compaction.....	0.70	
For >100 To 250, Deduct	-0.05	
For >250 To 500, Deduct	-0.11	
For >500, Deduct	-0.21	
31 23 16 13-0049 LF Backfill 8" Wide, 36" Deep Trench, With Compaction.....	1.05	
For >100 To 250, Deduct	-0.07	
For >250 To 500, Deduct	-0.16	
For >500, Deduct	-0.32	
31 23 16 26 Rock Removal (31 23 16)		
31 23 16 26-0001 Rock Breaking By Machine (31 23 16 26)		
Note: Excludes excavation of broken-up rock.		
31 23 16 26-0002 CY Rock Breaking By Machine, Soft Sedimentary Rocks (Shale, Sandstone, Limestone)	21.36	
31 23 16 26-0003 CY Rock Breaking By Machine, Medium Metamorphic Rock (Slate).....	22.79	
31 23 16 26-0004 CY Rock Breaking By Machine, Hard Igneous Rock (Granite, Basalt)	27.06	
31 23 16 33 Bulk Excavation (31 23 16)		
Note: For excavations where the total quantity for a project is greater than 500 cubic yards. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 36-0000 for For less than 500 CY excavation.		
31 23 16 33-0001 Excavation (31 23 16 33)		
Note: For bulk excavation. Includes stockpiling excavated materials within 100' of point of excavation.		
31 23 16 33-0002 CY Bulk Excavation by Dozer in Soil	8.19	
For Excavation In Light Material (Class A), Deduct	-1.02	
For Excavation In Heavy/Wet Material (Class C), Add	3.28	
For >1,000, Deduct	-1.23	
31 23 16 33-0003 CY Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil	4.54	
For Excavation In Light Material (Class A), Deduct	-0.57	
For Excavation In Heavy/Wet Material (Class C), Add	1.82	
For >1,000, Deduct	-0.68	
31 23 16 33-0004 CY Bulk Excavation by Dozer in Loose Rock	10.07	
For >1,000, Deduct	-1.51	
31 23 16 33-0005 CY Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Loose Rock	5.58	
For >1,000, Deduct	-0.84	
31 23 16 33-0006 Spreading, Shaping And Rough Grading (31 23 16 33)		
Note: Imported or stockpiled material for bulk excavation.		
31 23 16 33-0007 CY Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine.....	5.06	
For >1,000, Deduct	-0.76	
31 23 16 33-0008 Cutting, Shaping and Rough Grading Of Existing Elevations (31 23 16 33)		
Note: For bulk excavation.		
31 23 16 33-0009 CY Cutting, Shaping and Rough Grading Existing Elevations For Bulk Excavation by Machine.....	5.61	
For >1,000, Deduct	-0.84	
31 23 16 33-0010 Relocating On Site Excavated Material From Excavation (31 23 16 33)		
Note: For bulk excavation.		
31 23 16 33-0011 CY Relocating On Site Excavated Material From Bulk Excavation >100' to 300'	4.50	
For >1,000, Deduct	-0.68	
31 23 16 33-0012 CY Relocating On Site Excavated Material From Bulk Excavation >300' to 500'	6.74	
For >1,000, Deduct	-1.01	
31 23 16 33-0013 CY Relocating On Site Excavated Material From Bulk Excavation >500' To 1,000'	10.11	
For >1,000, Deduct	-1.52	
31 23 16 33-0014 CY Relocating On Site Excavated Material From Bulk Excavation >1,000'	13.48	
For >1,000, Deduct	-2.02	
31 23 16 33-0015 Finish Grading (31 23 16 33)		
Note: For bulk excavation.		
31 23 16 33-0016 SY Finish Grading for Bulk Excavation by Machine.....	0.56	
31 23 16 33-0017 Compaction Of Fill Or Subbase, Per Lift (31 23 16 33)		
Note: For bulk excavation. See CSI section 31 23 23 23-0001 for compaction water.		
31 23 16 33-0018 SY Compaction of Fill or Subbase for Bulk Excavation by Machine.....	0.57	
Note: Per Lift		

31	31	Earthwork
	31 20	Earth Moving
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 33-0019 Loading Excess Material For Removal From Excavation <small>(31 23 16 33)</small> Note: For bulk excavation. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0051 for hauling.		
31 23 16 33-0020 CY Loading Excess Material For Removal From Bulk Excavation.....	4.57	
For >1,000, Deduct	-0.69	
31 23 16 36 Excavation For Building Foundations And Other Structures <small>(31 23 16)</small> Note: Use of a Bobcat is limited to access restricted areas and by owner's approval. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 33-0000 for bulk excavation operations over 500 CY.		
31 23 16 36-0001 Excavation <small>(31 23 16 36)</small> Note: For building foundations and other structures by machine. Includes stockpiling excess materials within 100' of point of excavation, shaping, trimming and rough grading excavation.		
31 23 16 36-0002 Excavation For Building Foundations And Other Structures By Skid-Steer Loader <small>(31 23 16 36-0001)</small>		
31 23 16 36-0003 CY Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Soil	7.44	
For Excavation In Light Material (Class A), Deduct	-0.93	
For Excavation In Heavy/Wet Material (Class C), Add	2.98	
For Up To 20, Add	7.44	
For >20 To 50, Add	5.58	
For >50 To 250, Add	2.98	
For >250 To 500, Add	1.12	
31 23 16 36-0004 CY Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Loose Rock	9.14	
For Up To 20, Add	9.14	
For >20 To 50, Add	6.86	
For >50 To 250, Add	3.66	
For >250 To 500, Add	1.37	
31 23 16 36-0005 Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader <small>(31 23 16 36-0001)</small>		
31 23 16 36-0006 CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Soil	5.45	
For Excavation In Light Material (Class A), Deduct	-0.68	
For Excavation In Heavy/Wet Material (Class C), Add	2.18	
For Up To 20, Add	5.45	
For >20 To 50, Add	4.09	
For >50 To 250, Add	2.18	
For >250 To 500, Add	0.82	
31 23 16 36-0007 CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Loose Rock	6.48	
For Up To 20, Add	6.48	
For >20 To 50, Add	4.86	
For >50 To 250, Add	2.59	
For >250 To 500, Add	0.97	
31 23 16 36-0008 Excavation For Building Foundations And Other Structures By Hand <small>(31 23 16 36-0001)</small> Note: For areas not accessible by machine and only with owner's approval.		
31 23 16 36-0009 CY Excavation For Building Foundations And Other Structures By Hand in Soil.....	105.18	
For Excavation In Light Material (Class A), Deduct	-13.15	
For Excavation In Heavy/Wet Material (Class C), Add	42.07	
31 23 16 36-0010 CY Excavation For Building Foundations And Other Structures By Hand in Loose Rock.....	180.43	
31 23 16 36-0011 Relocating On Site Excavated Material From Excavation <small>(31 23 16 36)</small> Note: For building foundations and other structures over 100'.		
31 23 16 36-0012 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >100' to 300'	4.50	
For Up To 20, Add	4.50	
For >20 To 50, Add	3.38	
For >50 To 250, Add	1.80	
For >250 To 500, Add	0.68	
31 23 16 36-0013 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >300' to 500'	6.74	
For Up To 20, Add	6.74	
For >20 To 50, Add	5.06	
For >50 To 250, Add	2.70	
For >250 To 500, Add	1.01	
31 23 16 36-0014 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >500' to 1,000'	10.11	
For Up To 20, Add	10.11	
For >20 To 50, Add	7.58	
For >50 To 250, Add	4.04	
For >250 To 500, Add	1.52	
31 23 16 36-0015 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >1,000'	13.48	
For Up To 20, Add	13.48	
For >20 To 50, Add	10.11	
For >50 To 250, Add	5.39	
For >250 To 500, Add	2.02	



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Earth Moving	31 20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0016 Backfilling <small>(31 23 16 36)</small> Note: For building foundations and other structures with imported or stockpiled materials. Includes rough grading.		
31 23 16 36-0017 CY Backfilling Around Building Foundations And Other Structures By Skid-Steer Loader	3.62	
For Up To 20, Add	3.62	
For >20 To 50, Add	2.72	
For >50 To 250, Add	1.45	
For >250 To 500, Add	0.54	
31 23 16 36-0018 CY Backfilling Around Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader	4.22	
For Up To 20, Add	4.22	
For >20 To 50, Add	3.17	
For >50 To 250, Add	1.69	
For >250 To 500, Add	0.63	
31 23 16 36-0019 CY Backfilling Around Building Foundations And Other Structures By Hand	50.09	
31 23 16 36-0020 Compaction Of Fill Or Subbase <small>(31 23 16 36)</small> Note: For building foundations and other structures. See CSI section 31 23 23 23-0001 for compaction water.		
31 23 16 36-0021 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, Etcetera	9.65	
For Up To 20, Add	9.65	
For >20 To 50, Add	7.24	
For >50 To 250, Add	3.86	
For >250 To 500, Add	1.45	
31 23 16 36-0022 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand	32.96	
31 23 16 36-0023 Grading <small>(31 23 16 36)</small> Note: For building foundations and other structures.		
31 23 16 36-0024 SY Rough Grading For Building Foundations And Other Structures by Machine	0.97	
31 23 16 36-0025 SY Finish Grading For Building Foundations And Other Structures by Machine	1.56	
31 23 16 36-0026 SY Finish Grading For Building Foundations And Other Structures by Hand	9.74	
31 23 16 36-0027 Loading Excess Material For Removal From Excavation <small>(31 23 16 36)</small> Note: For building foundations and other structures. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00- 0051 for hauling.		
31 23 16 36-0028 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Machine	4.76	
For Up To 20, Add	4.76	
For >20 To 50, Add	3.57	
For >50 To 250, Add	1.90	
For >250 To 500, Add	0.71	
31 23 16 36-0029 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Hand	77.13	
31 23 16 36-0030 Spread Material <small>(31 23 16 36)</small> Note: For building foundations and other structures.		
31 23 16 36-0031 CY Spread Excess Or Imported Material On Site By Machine	2.62	
For Up To 20, Add	2.62	
For >20 To 50, Add	1.97	
For >50 To 250, Add	1.05	
For >250 To 500, Add	0.39	
31 23 16 36-0032 CY Spread Excess Or Imported Material On Site By Hand	42.57	
31 23 16 43 Mass Excavation <small>(31 23 16)</small>		
31 23 16 43-0001 Mass Excavation By Dozer <small>(31 23 16 43)</small> Note: In CY/Hour and using 50 Min/Hour, +5% grade, average operator and material conversion factors. Pushed to stockpile area.		
31 23 16 43-0002 Dozing Distance Averages 150 Feet Push <small>(31 23 16 43-0001)</small>		
31 23 16 43-0003 Dozer With Blade, 65 HP, (D-3B) <small>(31 23 16 43-0002)</small>		
31 23 16 43-0004 BCY Mass Excavation, D-3B Dozer, Light Material 65 HP With Blade, 150' Push, 30 CY/Hour	5.96	
31 23 16 43-0005 BCY Mass Excavation, D-3B Dozer, Medium Material 65 HP With Blade, 150' Push, 25 CY/Hour	7.15	
31 23 16 43-0006 BCY Mass Excavation, D-3B Dozer, Wet/Loose Rock 65 HP With Blade, 150' Push 20 CY/Hour	8.95	
31 23 16 43-0007 Dozer With Blade, 90 HP, (D-4H) <small>(31 23 16 43-0002)</small>		
31 23 16 43-0008 BCY Mass Excavation, D-4H Dozer, Light Material 90 HP With Blade, 150' Push, 60 CY/Hour	2.92	
31 23 16 43-0009 BCY Mass Excavation, D-4H Dozer, Medium Material 90 HP With Blade, 150' Push, 45 CY/Hour	3.89	
31 23 16 43-0010 BCY Mass Excavation, D-4H Dozer, Wet/Loose Rock 90 HP With Blade, 150' Push, 35 CY/Hour	5.01	
31 23 16 43-0011 Dozer With Blade, 120 HP, (D-5H) <small>(31 23 16 43-0002)</small>		
31 23 16 43-0012 BCY Mass Excavation, D-5H Dozer, Light Material 120 HP With Blade, 150' Push, 85 CY/Hour	2.15	
31 23 16 43-0013 BCY Mass Excavation, D-5H Dozer, Medium Material 120 HP With Blade, 150' Push, 70 CY/Hour	2.62	
31 23 16 43-0014 BCY Mass Excavation, D-5H Dozer, Wet/Loose Rock 120 HP With Blade, 150' Push, 50 CY/Hour	3.66	
31 23 16 43-0015 Dozer With Blade, 140 HP, (D-6D) <small>(31 23 16 43-0002)</small>		
31 23 16 43-0016 BCY Mass Excavation, D-6D Dozer, Light Material 140 HP With Blade, 150' Push, 115 CY/Hour	1.85	

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
31 23 16 43-0017	BCY	Mass Excavation, D-6D Dozer, Medium Material 140 HP With Blade, 150' Push, 90 CY/Hour	.....	2.37	
31 23 16 43-0018	BCY	Mass Excavation, D-6D Dozer, Wet/Loose Rock 140 HP With Blade, 150' Push, 70 CY/Hour	.....	3.05	
31 23 16 43-0019		Dozer With U-Blade, 200 HP, (D-7G) <small>(31 23 16 43-0002)</small>			
31 23 16 43-0020	BCY	Mass Excavation, D-7G Dozer, Light Material 200 HP With U-Blade, 150' Push, 185 CY/Hour	.....	1.23	
31 23 16 43-0021	BCY	Mass Excavation, D-7G Dozer, Medium Material 200 HP With U-Blade 150' Push, 150 CY/Hour	.....	1.52	
31 23 16 43-0022	BCY	Mass Excavation, D-7G Dozer, Wet/Loose Rock 200 HP With U-Blade, 150' Push, 115 CY/Hour	.....	1.98	
31 23 16 43-0023	BCY	Mass Excavation, D-7G Dozer, Blasted Rock 200 HP With U-Blade, 150' Push, 90 CY/Hour	.....	2.53	
31 23 16 43-0024		Dozer With U-Blade, 335 HP, (D-8L) <small>(31 23 16 43-0002)</small>			
31 23 16 43-0025	BCY	Mass Excavation, D-8L Dozer, Light Material 335 HP With U-Blade, 150' Push, 290 CY/Hour	.....	0.98	
31 23 16 43-0026	BCY	Mass Excavation, D-8L Dozer, Medium Material 335 HP With U-Blade 150' Push, 235 CY/Hour	.....	1.21	
31 23 16 43-0027	BCY	Mass Excavation, D-8L Dozer, Wet/Loose Rock 335 HP With U-Blade, 150' Push, 180 CY/Hour	.....	1.57	
31 23 16 43-0028	BCY	Mass Excavation, D-8L Dozer, Blasted Rock 335 HP With U-Blade, 150' Push, 145 CY/Hour	.....	1.96	
31 23 16 43-0029		Dozer With U-Blade, 460 HP, (D-9L) <small>(31 23 16 43-0002)</small>			
31 23 16 43-0030	BCY	Mass Excavation, D-9L Dozer, Light Material 460 HP With U-Blade, 150' Push, 375 CY/Hour	.....	0.74	
31 23 16 43-0031	BCY	Mass Excavation, D-9L Dozer, Medium Material 460 HP With U-Blade 150' Push, 300 CY/Hour	.....	0.92	
31 23 16 43-0032	BCY	Mass Excavation, D-9L Dozer, Wet/Loose Rock 460 HP With U-Blade, 150' Push, 230 CY/Hour	.....	1.20	
31 23 16 43-0033	BCY	Mass Excavation, D-9L Dozer, Blasted Rock 460 HP With U-Blade, 150' Push, 185 CY/Hour	.....	1.50	
31 23 16 43-0034		Dozer With U-Blade, 700 HP, (D-10) <small>(31 23 16 43-0002)</small>			
31 23 16 43-0035	BCY	Mass Excavation, D-10 Dozer, Light Material 700 HP With U-Blade, 150' Push, 495 CY/Hour	.....	0.61	
31 23 16 43-0036	BCY	Mass Excavation, D-10 Dozer, Medium Material 700 HP With U-Blade 150' Push, 400 CY/Hour	.....	0.76	
31 23 16 43-0037	BCY	Mass Excavation, D-10 Dozer, Wet/Loose Rock 700 HP With U-Blade, 150' Push, 305 CY/Hour	.....	0.99	
31 23 16 43-0038	BCY	Mass Excavation, D-10 Dozer, Blasted Rock 700 HP With U-Blade, 150' Push, 245 CY/Hour	.....	1.23	
31 23 16 43-0039		Dozing Distance Averages 300 Feet Push <small>(31 23 16 43-0001)</small>			
31 23 16 43-0040		Dozer With Blade, 65 HP, (D-3B) <small>(31 23 16 43-0039)</small>			
31 23 16 43-0041	BCY	Mass Excavation, D-3B Dozer, Light Material 65 HP With Blade, 12.5 CY/Hour, 300' Push	.....	14.30	
31 23 16 43-0042	BCY	Mass Excavation, D-3B Dozer, Medium Material 65 HP With Blade, 10 CY/Hour, 300' Push	.....	17.88	
31 23 16 43-0043		Dozer With Blade, 90 HP, (D-4H) <small>(31 23 16 43-0039)</small>			
31 23 16 43-0044	BCY	Mass Excavation, D-4H Dozer, Light Material 90 HP With Blade, 20 CY/Hour, 300' Push	.....	8.77	
31 23 16 43-0045	BCY	Mass Excavation, D-4H Dozer, Medium Material 90 HP With Blade, 17.5 CY/Hour, 300' Push	.....	10.01	
31 23 16 43-0046	BCY	Mass Excavation, D-4H Dozer, Loose Rock 90 HP With Blade, 15 CY/Hour, 300' Push	.....	11.69	
31 23 16 43-0047		Dozer With Blade, 120 HP, (D-5H) <small>(31 23 16 43-0039)</small>			
31 23 16 43-0048	BCY	Mass Excavation, D-5H Dozer, Light Material 120 HP With Blade, 35 CY/Hour, 300' Push	.....	5.22	
31 23 16 43-0049	BCY	Mass Excavation, D-5H Dozer, Medium Material 120 HP With Blade, 30 CY/Hour, 300' Push	.....	6.09	
31 23 16 43-0050	BCY	Mass Excavation, D-5H Dozer, Loose Rock 120 HP With Blade, 25 CY/Hour, 300' Push	.....	7.31	
31 23 16 43-0051		Dozer With Blade, 140 HP, (D-6D) <small>(31 23 16 43-0039)</small>			
31 23 16 43-0052	BCY	Mass Excavation, D-6D Dozer, Light Material 140 HP With Blade, 55 CY/Hour, 300' Push	.....	3.88	
31 23 16 43-0053	BCY	Mass Excavation, D-6D Dozer, Medium Material 140 HP With Blade, 45 CY/Hour, 300' Push	.....	4.73	
31 23 16 43-0054	BCY	Mass Excavation, D-6D Dozer, Loose Rock 140 HP With Blade, 35 CY/Hour, 300' Push	.....	6.09	
31 23 16 43-0055		Dozer With U-Blade, 200 HP, (D-7G) <small>(31 23 16 43-0039)</small>			
31 23 16 43-0056	BCY	Mass Excavation, D-7G Dozer, Light Material 200 HP With U-Blade, 85 CY/Hour, 300' Push	.....	2.68	
31 23 16 43-0057	BCY	Mass Excavation, D-7G Dozer, Medium Material 200 HP With U-Blade 65 CY/Hour, 300' Push	.....	3.51	
31 23 16 43-0058	BCY	Mass Excavation, D-7G Dozer, Loose Rock 200 HP With U-Blade, 50 CY/Hour, 300' Push	.....	4.56	
31 23 16 43-0059	BCY	Mass Excavation, D-7G Dozer, Blasted Rock 200 HP With U-Blade, 40 CY/Hour, 300' Push	.....	5.70	
31 23 16 43-0060		Dozer With U-Blade, 335 HP, (D-8L) <small>(31 23 16 43-0039)</small>			
31 23 16 43-0061	BCY	Mass Excavation, D-8L Dozer, Light Material 335 HP With U-Blade, 145 CY/Hour, 300' Push	.....	1.96	
31 23 16 43-0062	BCY	Mass Excavation, D-8L Dozer, Medium Material 335 HP With U-Blade 115 CY/Hour, 300' Push	.....	2.47	
31 23 16 43-0063	BCY	Mass Excavation, D-8L Dozer, Loose Rock 335 HP With U-Blade, 90 CY/Hour, 300' Push	.....	3.15	
31 23 16 43-0064	BCY	Mass Excavation, D-8L Dozer, Blasted Rock 335 HP With U-Blade, 70 CY/Hour, 300' Push	.....	4.04	
31 23 16 43-0065		Dozer With U-Blade, 460 HP, (D-9L) <small>(31 23 16 43-0039)</small>			
31 23 16 43-0066	BCY	Mass Excavation, D-9L Dozer, Light Material 460 HP With U-Blade, 195 CY/Hour, 300' Push	.....	1.42	
31 23 16 43-0067	BCY	Mass Excavation, D-9L Dozer, Medium Material 460 HP With U-Blade 160 CY/Hour, 300' Push	.....	1.74	
31 23 16 43-0068	BCY	Mass Excavation, D-9L Dozer, Loose Rock 460 HP With U-Blade, 120 CY/Hour, 300' Push	.....	2.31	
31 23 16 43-0069	BCY	Mass Excavation, D-9L Dozer, Blasted Rock 460 HP With U-Blade, 95 CY/Hour, 300' Push	.....	2.92	
31 23 16 43-0070		Dozer With U-Blade, 700 HP, (D-10) <small>(31 23 16 43-0039)</small>			



Earthwork	31	15
Earth Moving	31 20	
Excavation And Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 43-0071 BCY Mass Excavation, D-10 Dozer, Light Material 700 HP With U-Blade, 275 CY/Hour, 300' Push.....	1.11	
31 23 16 43-0072 BCY Mass Excavation, D-10 Dozer, Medium Material 700 HP With U-Blade 220 CY/Hour, 300' Push.....	1.38	
31 23 16 43-0073 BCY Mass Excavation, D-10 Dozer, Loose Rock 700 HP With U-Blade, 170 CY/Hour, 300' Push.....	1.78	
31 23 16 43-0074 BCY Mass Excavation, D-10 Dozer, Blasted Rock 700 HP With U-Blade, 135 CY/Hour, 300' Push.....	2.24	
31 23 16 43-0075 Dozing Distance Averages 450 Feet Push <small>(31 23 16 43-0001)</small>		
31 23 16 43-0076 Dozer With U-Blade, 215 HP, (D-7G) <small>(31 23 16 43-0075)</small>		
31 23 16 43-0077 BCY Mass Excavation, D-7G Dozer, Light Material 215 HP With U-Blade, 75 CY/Hour, 450' Push.....	3.03	
31 23 16 43-0078 BCY Mass Excavation, D-7G Dozer, Medium Material 215 HP With U-Blade 60 CY/Hour, 450' Push.....	3.80	
31 23 16 43-0079 BCY Mass Excavation, D-7G Dozer, Loose Rock 215 HP With U-Blade, 45 CY/Hour, 450' Push.....	5.06	
31 23 16 43-0080 BCY Mass Excavation, D-7G Dozer, Blasted Rock 215 HP With U-Blade, 35 CY/Hour, 450' Push.....	6.51	
31 23 16 43-0081 Dozer With U-Blade, 335 HP, (D-8L) <small>(31 23 16 43-0075)</small>		
31 23 16 43-0082 BCY Mass Excavation, D-8L Dozer, Light Material 335 HP With U-Blade, 105 CY/Hour, 450' Push.....	2.70	
31 23 16 43-0083 BCY Mass Excavation, D-8L Dozer, Medium Material 335 HP With U-Blade 85 CY/Hour, 450' Push.....	3.33	
31 23 16 43-0084 BCY Mass Excavation, D-8L Dozer, Loose Rock 335 HP With U-Blade, 65 CY/Hour, 450' Push.....	4.35	
31 23 16 43-0085 BCY Mass Excavation, D-8L Dozer, Blasted Rock 335 HP With U-Blade, 50 CY/Hour, 450' Push.....	5.66	
31 23 16 43-0086 Dozer With U-Blade, 460 HP, (D-9L) <small>(31 23 16 43-0075)</small>		
31 23 16 43-0087 BCY Mass Excavation, D-9L Dozer, Light Material 460 HP With U-Blade, 145 CY/Hour, 450' Push.....	1.92	
31 23 16 43-0088 BCY Mass Excavation, D-9L Dozer, Medium Material 460 HP With U-Blade 115 CY/Hour, 450' Push.....	2.42	
31 23 16 43-0089 BCY Mass Excavation, D-9L Dozer, Loose Rock 460 HP With U-Blade, 90 CY/Hour, 450' Push.....	3.08	
31 23 16 43-0090 BCY Mass Excavation, D-9L Dozer, Blasted Rock 460 HP With U-Blade, 70 CY/Hour, 450' Push.....	3.96	
31 23 16 43-0091 Dozer With U-Blade, 700 HP, (D-10) <small>(31 23 16 43-0075)</small>		
31 23 16 43-0092 BCY Mass Excavation, D-10 Dozer, Light Material 700 HP With U-Blade, 185 CY/Hour, 450' Push.....	1.64	
31 23 16 43-0093 BCY Mass Excavation, D-10 Dozer, Medium Material 700 HP With U-Blade 150 CY/Hour, 450' Push.....	2.02	
31 23 16 43-0094 BCY Mass Excavation, D-10 Dozer, Loose Rock 700 HP With U-Blade, 115 CY/Hour, 450' Push.....	2.64	
31 23 16 43-0095 BCY Mass Excavation, D-10 Dozer, Blasted Rock 700 HP With U-Blade, 90 CY/Hour, 450' Push.....	3.37	
31 23 16 43-0096 Excavation By Push Loaded Scraper <small>(31 23 16 43)</small>		
Note: Choose scraper capacity and cycle time.		
31 23 16 43-0097 Self Propelled Scraper Capacity 9 BCY <small>(31 23 16 43-0096)</small>		
31 23 16 43-0098 BCY Excavation With Push Loaded Self Propelled Scraper 9 BCY, 9 Cycles Per Hour.....	3.51	
31 23 16 43-0099 Self Propelled Scraper Capacity 16 BCY <small>(31 23 16 43-0096)</small>		
31 23 16 43-0100 BCY Excavation With Push Loaded Self Propelled Scraper 16 BCY, 9 Cycles Per Hour.....	2.43	
31 23 16 43-0101 BCY Excavation With Push Loaded Self Propelled Scraper 16 BCY, 6 Cycles Per Hour.....	3.65	
31 23 16 43-0102 BCY Excavation With Push Loaded Self Propelled Scraper 16 BCY, 4.5 Cycles Per Hour.....	5.48	
31 23 16 43-0103 Self Propelled Scraper Capacity 25 BCY <small>(31 23 16 43-0096)</small>		
31 23 16 43-0104 BCY Excavation With Push Loaded Self Propelled Scraper 25 BCY, 9 Cycles Per Hour.....	1.57	
31 23 16 43-0105 BCY Excavation With Push Loaded Self Propelled Scraper 25 BCY, 6 Cycles Per Hour.....	2.36	
31 23 16 43-0106 BCY Excavation With Push Loaded Self Propelled Scraper 25 BCY, 4.5 Cycles Per Hour.....	2.78	
31 23 16 43-0107 Self Propelled Scraper Capacity 35 BCY <small>(31 23 16 43-0096)</small>		
31 23 16 43-0108 BCY Excavation With Push Loaded Self Propelled Scraper 35 BCY, 9 Cycles Per Hour.....	1.18	
31 23 16 43-0109 BCY Excavation With Push Loaded Self Propelled Scraper 35 BCY, 6 Cycles Per Hour.....	1.78	
31 23 16 43-0110 BCY Excavation With Push Loaded Self Propelled Scraper 35 BCY, 4.5 Cycles Per Hour.....	2.40	
31 23 16 43-0111 Mass Excavation By Bucket Drag-Line <small>(31 23 16 43)</small>		
31 23 16 43-0112 CY Excavate Sand/Gravel, By Bucket Drag Line.....	6.86	
31 23 16 43-0113 CY Excavate, Soil, By Bucket Drag Line.....	11.83	
31 23 19 Dewatering <small>(31 23)</small>		
31 23 19 00-0001 Well Point Dewatering System <small>(31 23 19)</small>		
31 23 19 00-0002 Delivery, Installation And Removal Cost <small>(31 23 19 00-0001)</small>		
Note: Priced by linear foot of header used.		
31 23 19 00-0003 LF Up To 100' In Length Well Point System Delivery, Installation And Removal.....	105.55	
31 23 19 00-0004 LF >100' To 250' In Length Well Point System Delivery, Installation And Removal.....	58.05	
31 23 19 00-0005 LF >250' To 500' In Length Well Point System Delivery, Installation And Removal.....	52.77	
31 23 19 00-0006 LF >250' To 500' In Length Well Point System Delivery, Installation And Removal.....	47.50	
31 23 19 00-0007 LF >500' To 1,000' In Length Well Point System Delivery, Installation And Removal.....	42.22	
31 23 19 00-0008 LF >1,000' In Length Well Point System Delivery, Installation And Removal.....	36.94	

31	31	Earthwork
	31 20	Earth Moving
	31 23	Excavation And Fill



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 23 19 00-0009	Well Point Dewatering System Rental <small>(31 23 19 00-0001)</small>		
	<small>Note: Includes all necessary equipment for a well point system (well point with risers, pump, valves, header pipe, discharge pipe, etc.). Use normal adjustment factor only for rental tasks and modifiers. Unit of measure and modifier quantities are based on linear feet of header per day (ex. 200 ft of header for four days - quantity should be 200x4 or 800 ft). Rental days include weekends, when appropriate, regardless if the system is operational during that time. Use weekly modifier for system use of five days to less than a month. Use monthly modifier for system use of one month or greater. See CSI section 31 23 19 00-0002 for installation, 31 23 19 00-0015 for operational costs.</small>		
31 23 19 00-0010	LFD Up To 100' In Length Well Point System Rental (LF x Days = Quantity)	1.78	
	<i>For >5 Days And <1 Month, Deduct</i>	-0.39	
	<i>For >1 Month, Deduct</i>	-0.50	
31 23 19 00-0011	LFD >100' To 250' In Length Well Point System Rental (LF x Days = Quantity)	1.04	
	<i>For >5 Days And <1 Month, Deduct</i>	-0.23	
	<i>For >1 Month, Deduct</i>	-0.29	
31 23 19 00-0012	LFD >250' To 500' In Length Well Point System Rental (LF x Days = Quantity)	0.74	
	<i>For >5 Days And <1 Month, Deduct</i>	-0.16	
	<i>For >1 Month, Deduct</i>	-0.21	
31 23 19 00-0013	LFD >500' To 1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.54	
	<i>For >5 Days And <1 Month, Deduct</i>	-0.12	
	<i>For >1 Month, Deduct</i>	-0.15	
31 23 19 00-0014	LFD >1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.49	
	<i>For >5 Days And <1 Month, Deduct</i>	-0.11	
	<i>For >1 Month, Deduct</i>	-0.14	

31 23 19 00-0015	Well Point Dewatering System Operation Costs <small>(31 23 19 00-0001)</small>		
	<small>Note: The quantity for operation shall be the total number of hours the well point system is operational.</small>		
31 23 19 00-0016	HR Operation Costs	96.93	

31 23 23 Fill (31 23)

31 23 23 23 Compaction (31 23 23)

31 23 23 23-0001	Compaction Water, Water Truck And Operator <small>(31 23 23 23)</small>		
31 23 23 23-0002	MGL Compaction Water, Water Truck And Operator	163.37	
	<small>Note: Use this task in situations where fill, base material, etc. requires additional moisture to comply with the compaction specification. Includes delivery up to 15 miles. (Per 1000 Gallons) See CSI section 01 22 23 00-1216 for water truck when water is available on site.</small>		

31 23 23 33 Flowable Fill (31 23 23)

31 23 23 33-0001	Flowable Cement Backfill For Trenches <small>(31 23 23 33)</small>		
	<small>Note: Includes compaction and restoration of final grade.</small>		
31 23 23 33-0002	CY Flowable Cement Backfill for Trenches	199.29	
	<i>For Up To 20, Add</i>	71.81	
	<i>For >20 To 50, Add</i>	47.07	
	<i>For >50 To 250, Add</i>	23.54	
	<i>For >500 To 1,000, Deduct</i>	-12.37	
	<i>For >1,000, Deduct</i>	-24.74	

31 24 Embankments (31 20)

31 24 13 Roadway Embankments (31 24)

31 24 13 00-0001	Roadway, Parking Areas, Landscaping And Embankment Excavation And Shaping Operations <small>(31 24 13)</small>		
	<small>Note: Use this section for excavation and shaping operations even if the total quantity for the project exceeds 500 CY. See CSI section 31 05 16 00-0000 for imported material, 32 12 16 00-0000 for asphalt paving, 32 13 13 00-0000 for concrete paving.</small>		
31 24 13 00-0002	Cutting, Shaping And Rough Grading <small>(31 24 13 00-0001)</small>		
	<small>Note: For roadways, parking areas, landscaping, and embankments. Includes loading or stockpiling excess materials within 300' of initial cut.</small>		
31 24 13 00-0003	Cutting, Shaping, And Rough Grading <small>(31 24 13 00-0002)</small>		
31 24 13 00-0004	CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Soil	5.61	
	<i>For Up To 20, Add</i>	5.61	
	<i>For >20 To 50, Add</i>	4.21	
	<i>For >50 To 250, Add</i>	2.24	
	<i>For >250 To 500, Add</i>	0.84	
	<i>For >1,000, Deduct</i>	-0.84	
31 24 13 00-0005	CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Loose Rock	6.96	
	<i>For Up To 20, Add</i>	6.96	
	<i>For >20 To 50, Add</i>	5.22	
	<i>For >50 To 250, Add</i>	2.78	
	<i>For >250 To 500, Add</i>	1.04	
	<i>For >1,000, Deduct</i>	-1.04	

31 24 13 00-0006	Cutting, Shaping, And Rough Grading By Hand <small>(31 24 13 00-0002)</small>		
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Earthwork	31	13
Earth Moving	31 20	
Embankments	31 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0007 SY Shape Embankment/Slope By Hand Up To 1 On 4 Slope.....	5.40	
31 24 13 00-0008 SY Shape Embankment/Slope By Hand Greater Than 1 On 4 Slope	7.01	
31 24 13 00-0009 Scarify Soil <small>(31 24 13 00-0001)</small>		
Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0010 CSF Scarify Soil For Roadways, Parking Areas, Landscaping And Embankments By Machine	5.20	
For Up To 20, Add	2.60	
For >20 To 50, Add	1.30	
For >250 To 500, Deduct	-0.52	
For >500, Deduct	-1.04	
31 24 13 00-0011 Relocating On Site Excavated Material <small>(31 24 13 00-0001)</small>		
31 24 13 00-0012 CY >500' To 1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine.....	10.11	
For Up To 20, Add	10.11	
For >20 To 50, Add	7.58	
For >50 To 250, Add	4.04	
For >250 To 500, Add	1.52	
For >1,000, Deduct	-1.52	
31 24 13 00-0013 CY >1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine.....	13.48	
For Up To 20, Add	13.48	
For >20 To 50, Add	10.11	
For >50 To 250, Add	5.39	
For >250 To 500, Add	2.02	
For >1,000, Deduct	-2.02	
31 24 13 00-0014 Spread And Shape Imported Or Stockpiled Material <small>(31 24 13 00-0001)</small>		
Note: For roadways, parking areas, landscaping and embankments. See CSI section 31 23 16 36-0032 for spreading material by hand.		
31 24 13 00-0015 CY Spread And Shape Imported Or Stockpiled Material For Roadways, Parking Areas, Landscaping and Embankments By Machine	6.18	
For Up To 20, Add	6.18	
For >20 To 50, Add	4.64	
For >50 To 250, Add	2.47	
For >250 To 500, Add	0.93	
For >1,000, Deduct	-0.93	
31 24 13 00-0016 Grading <small>(31 24 13 00-0001)</small>		
Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0017 SY Rough Grade Roadway, Parking Areas, Landscaping And Embankments By Machine	0.62	
31 24 13 00-0018 SY Finish Grade Roadway, Parking Areas, Landscaping And Embankments By Machine	0.83	
31 24 13 00-0019 LF Finish Grade For Curb	0.94	
31 24 13 00-0020 LF Finish Grade For Curb And Gutter.....	1.14	
31 24 13 00-0021 Compaction Of Fill Or Subbase <small>(31 24 13 00-0001)</small>		
Note: For roadways, parking areas, landscaping and embankments by machine, per lift.		
31 24 13 00-0022 SY Compaction Of Fill Or Subbase For Roadways, Parking Areas, Landscaping And Embankments By Machine Per Lift.....	0.57	
For Up To 250, Add	0.57	
For >250 To 500, Add	0.43	
For >500 To 1,000, Add	0.23	
For >5,000, Deduct	-0.09	
31 24 13 00-0023 Loading Excess Material For Removal From Excavation <small>(31 24 13 00-0001)</small>		
Note: For roadways, parking areas, landscaping and embankments by machine. Includes hand work by laborer for clean-up.		
31 24 13 00-0024 CY Load Excess Material For Removal For Roadways, Parking Areas, Landscaping and Embankments by Machine	4.57	
For Up To 20, Add	4.57	
For >20 To 50, Add	3.43	
For >50 To 250, Add	1.83	
For >250 To 500, Add	0.69	
For >1,000, Deduct	-0.69	
31 25 Erosion And Sedimentation Controls <small>(31 20)</small>		
31 25 14 Stabilization Measures For Erosion And Sedimentation Control <small>(31 25)</small>		
31 25 14 13 Hydraulically-Applied Erosion Control <small>(31 25 14)</small>		
31 25 14 13-0001 Bonded Fiber Matrix <small>(31 25 14 13)</small>		
31 25 14 13-0002 MSF Up To 25,000 SF Bonded Fiber Matrix, Hydraulically Applied	42.13	
31 25 14 13-0003 MSF >25,000 To 50,000 SF Bonded Fiber Matrix, Hydraulically Applied.....	38.17	
31 25 14 13-0004 MSF >50,000 To 100,000 SF Bonded Fiber Matrix, Hydraulically Applied.....	34.81	
31 25 14 13-0005 MSF >100,000 Bonded Fiber Matrix, Hydraulically Applied	32.90	

31	31	Earthwork
	31 20	Earth Moving
	31 25	Erosion And Sedimentation Controls



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 25 14 16 Rolled Erosion Control Mats And Blankets (31 25 14)

Note: Includes all staples and stakes for erosion control blankets and turf reinforcement mats.

31 25 14 16-0001	Erosion Control Blankets And Turf Reinforcement Mats (31 25 14 16)		
31 25 14 16-0002	Erosion Control Blankets, Short Term, Light Duty (31 25 14 16-0001)		
31 25 14 16-0003	SY S75 Single Net Erosion Control Blanket Note: Straw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.	1.62	
31 25 14 16-0004	SY S75BN Single Net Erosion Control Blanket Note: Straw Matrix with Biodegradable Thread to a Single Natural Fiber Netting as manufactured by North American Green.	1.97	
31 25 14 16-0005	SY Curlex 1, Single Net Erosion Control Blanket Note: As manufactured by American Excelsior	1.56	
31 25 14 16-0006	SY Curlex 1, Single Net Erosion Control Blanket Note: As manufactured by American Green.	1.62	
31 25 14 16-0007	SY Futerra Erosion Control Blanket, Wood Fibers With Biodegradable Netting.....	1.48	
31 25 14 16-0008	Erosion Control Blankets, Intermediate Duration (31 25 14 16-0001)		
31 25 14 16-0009	SY S150 Double Net Erosion Control Blanket Note: Straw matrix with degradable thread to a double standard photodegradable polypropylene netting as manufactured by North American Green.	2.07	
31 25 14 16-0010	SY S150 BN Double Net Erosion Control Blanket Note: Straw matrix with biodegradable thread to a double natural fiber netting as manufactured by North American Green.	2.62	
31 25 14 16-0011	SY Curlex II, Double Net Erosion Control Blanket, Natural..... Note: As manufactured by American Excelsior.	1.81	
31 25 14 16-0012	SY Curlex II, Double Net Erosion Control Blanket, Green Note: As manufactured by American Excelsior.	1.87	
31 25 14 16-0013	SY Enforcer Double Net Erosion Control Blanket..... Note: As manufactured by American Excelsior.	1.96	
31 25 14 16-0014	Turf Reinforcement Mats (TRM) (31 25 14 16-0001)		
	Note: Permanent, UV stabilized.		
31 25 14 16-0015	SY P300 Permanent Polypropylene Turf Reinforcement Mat..... Note: 100% synthetic, UV stabilized, two layer netting.	8.95	
31 25 14 16-0016	SY C350 Permanent Turf Reinforcement Mat Note: 100% synthetic, UV stabilized netting incorporating natural coconut fibers as manufactured by North American Green.	8.30	
31 25 14 16-0017	SY Recyclex TRM, Permanent Turf Reinforcement Mat..... Note: As manufactured by American Excelsior, 100% recycled	8.03	
31 25 14 16-0018	Jute Mesh Erosion Control Blankets (31 25 14 16-0001)		
31 25 14 16-0019	SY Jute Mesh, Open Uniform Weave.....	1.82	
31 25 14 16-0020	Revegetation Mat (31 25 14 16-0001)		
31 25 14 16-0021	SY 3-Dimensional Webbed Revegetation Mat, Polyolefin Fiber Note: Polyolefin fibers oriented and mechanically bonded between two nets. Landlok TRM 450 or equal.	6.45	
31 25 14 16-0022	SY Webbed Revegetation Mat, Polypropylene Fiber..... Note: Polypropylene fibers positioned between two high strength biaxially oriented nets and mechanically held together by parallel stitching with polypropylene thread. Landlok TRM 1060 or equal.	9.16	
31 25 14 16-0023	Erosion Control Rolls (31 25 14 16-0001)		
31 25 14 16-0024	SY Erosion Control Rolls, Mirafi 140N.....	1.56	
31 25 14 16-0025	SY Erosion Control Rolls, Amoco 4547	1.59	
31 25 14 23	Stabilization Measures For Erosion Control (31 25 14)		
	See CSI section 01 74 19 00-0051 for hauling greater than 15 miles.		
31 25 14 23-0001	Sand Bags (31 25 14 23)		
	Note: Bags filled on site with delivered material. Includes material and placement of bags.		
31 25 14 23-0002	BAG 50 LB Capacity Sand Bag With Sand For >2,500 To 5,000, Deduct For >5,000, Deduct	5.34 -0.44 -0.98	2.22
31 25 14 23-0003	BAG 75 LB Capacity Sand Bag With Sand For >2,500 To 5,000, Deduct For >5,000, Deduct	6.91 -0.55 -1.24	2.76
31 25 14 23-0004	BAG 100 LB Capacity Sand Bag With Sand For >2,500 To 5,000, Deduct For >5,000, Deduct	8.63 -0.66 -1.52	3.30
31 25 14 23-0005	BAG 125 LB Capacity Sand Bag With Sand For >2,500 To 5,000, Deduct For >5,000, Deduct	10.68 -0.82 -1.89	4.11
31 25 14 23-0006	BAG 150 LB Capacity Sand Bag With Sand For >2,500 To 5,000, Deduct For >5,000, Deduct	12.95 -0.99 -2.28	4.94



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	31 25 14 23-0007			BAG 175 LB Capacity Sand Bag With Sand <i>For >2,500 To 5,000, Deduct</i>	15.01 -1.12	5.61
				<i>For >5,000, Deduct</i>	-2.62	
	31 25 14 23-0008			BAG 2,000 LB Capacity Sand Bag With Sand <i>For >2,500 To 5,000, Deduct</i>	122.39 -7.73	38.65
				<i>For >5,000, Deduct</i>	-19.97	
	31 25 14 23-0009			BAG 3,000 LB Capacity Sand Bag With Sand <i>For >2,500 To 5,000, Deduct</i>	158.31 -8.50	42.52
	31 25 14 23-0010			Gravel Bags <small>(31 25 14 23)</small> Note: Bags filled on site with delivered material. Includes material and placement of bags.		
	31 25 14 23-0011			BAG 30 LB Capacity Gravel Bag With Gravel <i>For >2,500 To 5,000, Deduct</i>	4.16 -0.29	1.47
				<i>For >5,000, Deduct</i>	-0.71	
	31 25 14 23-0012			BAG 50 LB Capacity Gravel Bag With Gravel <i>For >2,500 To 5,000, Deduct</i>	7.31 -0.44	2.22
				<i>For >5,000, Deduct</i>	-1.17	
	31 25 14 23-0013			Floating Turbidity Curtain <small>(31 25 14 23)</small> Note: Type 2 DOT fabric - 18 oz. nominal laminated vinyl/polyester. EPS flotation, 6 in. x 6 in., 13.5 lb./ft. buoyancy in fresh water and 14.4 lb./ft buoyancy in saltwater.		
	31 25 14 23-0014	LF		3' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i>	20.25 -3.07	
				<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-1.87	
				<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	2.27	
	31 25 14 23-0015	LF		4' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i>	21.93 -3.38	
				<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.06	
				<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	2.50	
	31 25 14 23-0016	LF		5' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i>	24.25 -3.82	
				<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.33	
				<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	2.83	
	31 25 14 23-0017	LF		6' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i>	26.23 -4.19	
				<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.55	
				<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.10	
	31 25 14 23-0018	LF		7' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i>	27.52 -4.40	
				<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.68	
				<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.25	
	31 25 14 23-0019	LF		8' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i>	28.82 -4.60	
				<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.80	
				<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.40	
	31 25 14 23-0020	LF		9' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i>	30.33 -4.85	
				<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.95	
				<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.58	
	31 25 14 23-0021	LF		10' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i>	32.40 -5.22	
				<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.18	
				<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.86	
	31 25 14 23-0022	LF		12' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i>	34.05 -5.48	
				<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.34	
				<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.05	
	31 25 14 23-0023	LF		13' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i>	36.24 -5.87	
				<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.57	
				<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.34	
	31 25 14 23-0024	LF		14' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i>	38.30 -6.22	
				<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.79	
				<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.60	
	31 25 14 23-0025	LF		15' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i>	40.28 -6.55	
				<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.98	
				<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.84	
	31 25 14 23-0026	LF		16' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i>	43.80 -7.22	
				<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-4.40	
				<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	5.34	
	31 25 14 23-0027	LF		17' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i>	45.93 -7.57	
				<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-4.61	
				<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	5.59	
	31 25 14 23-0028	LF		18' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i>	48.00 -7.90	
				<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-4.81	
				<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	5.84	

31 Earthwork**31 20 Earth Moving****31 25 Erosion And Sedimentation Controls**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0029	LF		19' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	50.20	
			<i>For Type 1, Deduct</i>	-8.24	
			<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-5.02	
			<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	6.09	
31 25 14 23-0030	LF		20' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	52.34	
			<i>For Type 1, Deduct</i>	-8.57	
			<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-5.22	
			<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	6.34	
31 25 14 23-0031			Turbidity Curtain Anchors <small>(31 25 14 23)</small>		
31 25 14 23-0032	EA		14 LB, Turbidity Curtain Anchor System.....	535.23	
			Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0033	EA		25 LB, Turbidity Curtain Anchor System.....	732.75	
			Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0034	EA		40 LB, Turbidity Curtain Anchor System.....	931.14	
			Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0035	EA		65 LB, Turbidity Curtain Anchor System.....	1,216.81	
			Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0036			Filter Bags <small>(31 25 14 23)</small>		
31 25 14 23-0037			Non-Woven Filter Bags <small>(31 25 14 23-0036)</small>		
31 25 14 23-0038	EA		6' x 15' Non-Woven Filter Bag.....	142.87	
31 25 14 23-0039	EA		13' x 15' Non-Woven Filter Bag.....	206.16	
31 25 14 23-0040	EA		15' x 15' Non-Woven Filter Bag.....	237.71	
31 25 14 23-0041			Monofilament Filter Bags <small>(31 25 14 23-0036)</small>		
31 25 14 23-0042	EA		5' x 15' Monofilament Filter Bag.....	148.35	
31 25 14 23-0043	EA		10' x 15' Monofilament Filter Bag.....	204.71	
31 25 14 23-0044			Cable Articulating Concrete Block <small>(31 25 14 23)</small>		
			Note: 4000 PSI Compressive strength, 12 LB/CF maximum absorption. Interlocking block with longitudinal reventment cable. Includes anchoring block to 12" x 12" x 6" concrete pier every 5' with anchor and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 25 14 23-0045	SF		4.75" Open Cell Articulated Concrete Block With Earth Backfill.....	33.23	
			<i>For Up To 500, Add</i>	7.54	
			<i>For >500 To 1,000, Add</i>	4.22	
31 25 14 23-0046	SF		6" Open Cell Articulated Concrete Block With Earth Backfill.....	37.91	
			<i>For Up To 500, Add</i>	8.56	
			<i>For >500 To 1,000, Add</i>	4.77	
31 25 14 23-0047	SF		7.5" Open Cell Articulated Concrete Block With Earth Backfill.....	43.29	
			<i>For Up To 500, Add</i>	9.73	
			<i>For >500 To 1,000, Add</i>	5.40	
31 25 14 23-0048	SF		9" Open Cell Articulated Concrete Block With Earth Backfill.....	48.79	
			<i>For Up To 500, Add</i>	10.95	
			<i>For >500 To 1,000, Add</i>	6.07	
31 25 14 23-0049	SF		4.75" Closed Cell Articulated Concrete Block.....	35.53	
			<i>For Up To 500, Add</i>	8.00	
			<i>For >500 To 1,000, Add</i>	4.45	
31 25 14 23-0050	SF		6" Closed Cell Articulated Concrete Block.....	40.67	
			<i>For Up To 500, Add</i>	9.11	
			<i>For >500 To 1,000, Add</i>	5.04	
31 25 14 23-0051	SF		7.5" Closed Cell Articulated Concrete Block.....	46.56	
			<i>For Up To 500, Add</i>	10.39	
			<i>For >500 To 1,000, Add</i>	5.73	
31 25 14 23-0052	SF		9" Closed Cell Articulated Concrete Block.....	52.52	
			<i>For Up To 500, Add</i>	11.70	
			<i>For >500 To 1,000, Add</i>	6.45	
31 25 14 26			Stabilization Measures For Sedimentation Control <small>(31 25 14)</small>		
31 25 14 26-0001			Silt Fences And Dike Barriers <small>(31 25 14 26)</small>		
			Note: Includes stakes and embedding.		
31 25 14 26-0002			Silt Fences 2' High <small>(31 25 14 26-0001)</small>		
31 25 14 26-0003	LF		2' High Silt Fence with Stakes at 4' On Center.....	2.55	
31 25 14 26-0004	LF		2' High Silt Fence with Stakes at 6' On Center.....	1.99	
31 25 14 26-0005	LF		2' High Silt Fence with Stakes at 8' On Center.....	1.43	
31 25 14 26-0006	LF		2' High Silt Fence with Stakes at 10' On Center.....	1.24	
31 25 14 26-0007			Silt Fences 3' High <small>(31 25 14 26-0001)</small>		
31 25 14 26-0008	LF		3' High Silt Fence with Stakes at 4' On Center.....	2.33	
31 25 14 26-0009	LF		3' High Silt Fence with Stakes at 6' On Center.....	2.06	
31 25 14 26-0010	LF		3' High Silt Fence with Stakes at 8' On Center.....	1.27	
31 25 14 26-0011	LF		3' High Silt Fence with Stakes at 10' On Center.....	1.31	



Earthwork	31	13
Earth Moving	31 20	
Erosion And Sedimentation Controls	31 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 26-0012 Silt Dike Barrier <small>(31 25 14 26-0001)</small>		
31 25 14 26-0013 LF Silt Dike Barrier With Stakes.....	3.04	
31 25 14 26-0014 Silt Fences Removal <small>(31 25 14 26-0001)</small>		
31 25 14 26-0015 LF Removal Of Silt Fence And Stakes.....	0.70	
31 25 14 26-0016 Hay And Straw Bales <small>(31 25 14 26)</small>		
Note: Includes trench for placement, and stakes.		
31 25 14 26-0017 LF Place Sterilized Straw Bales.....	3.97	
Note: Includes securing in ground with stakes.		
31 25 14 26-0018 LF Place Hay Bales	3.67	
Note: Includes securing in ground with stakes.		
31 25 14 26-0019 EA Place And Remove Hay Bales, Includes Securing In Ground With Stakes	11.01	
31 25 14 26-0020 LF Removal Of Hay Or Straw Bales	1.25	
Note: Includes removal of stakes.		
31 25 14 26-0021 Sediment Logs (Degradable) <small>(31 25 14 26)</small>		
31 25 14 26-0022 Sediment Logs (Degradable) <small>(31 25 14 26-0021)</small>		
Note: Includes stakes and removal after use. Curlex sediment logs as manufactured by American Excelsior.		
31 25 14 26-0023 LF 12" Sediment Log	6.94	
31 25 14 26-0024 LF 20" Sediment Log	8.12	
31 25 14 26-0025 Wattles (Degradable) <small>(31 25 14 26-0021)</small>		
Note: Includes trench for placement, 24" wood staking at 4' O.C.		
31 25 14 26-0026 EA Wattles (Sterile Straw Filled Rolls), 9" x 25'	127.09	
31 25 14 26-0027 EA Wattles (Sterile Straw Filled Rolls), 12" x 20'	119.71	
31 25 14 26-0028 Fiber Roll (CALTRANS Type 1) <small>(31 25 14 26)</small>		
Note: Includes furrow trench for placement, 24" wood staking at 4' O.C.		
31 25 14 26-0029 LF 8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	5.37	
For >1,000 To 10,000, Deduct	-0.62	
For >10,000, Deduct	-1.05	
31 25 14 26-0030 LF 9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	6.06	
For >1,000 To 10,000, Deduct	-0.64	
For >10,000, Deduct	-1.09	
31 25 14 26-0031 LF 12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	7.56	
For >1,000 To 10,000, Deduct	-0.76	
For >10,000, Deduct	-1.30	
31 25 14 26-0032 Fiber Roll (CALTRANS Type 2) <small>(31 25 14 26)</small>		
Note: Includes 24" wood stakes at 2' O.C. off-set on sides with ropes.		
31 25 14 26-0033 LF 8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	4.59	
For >1,000 To 10,000, Deduct	-0.50	
For >10,000, Deduct	-0.85	
31 25 14 26-0034 LF 9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	5.24	
For >1,000 To 10,000, Deduct	-0.52	
For >10,000, Deduct	-0.88	
31 25 14 26-0035 LF 12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	6.14	
For >1,000 To 10,000, Deduct	-0.55	
For >10,000, Deduct	-0.94	
31 25 14 26-0036 Inlet Protection Sediment Bags <small>(31 25 14 26)</small>		
Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0037 EA 2' x 2' x 3' Inlet Protection Sediment Bag.....	43.52	
31 25 14 26-0038 EA 2' x 3' x 3' Inlet Protection Sediment Bag.....	53.90	
31 25 14 26-0039 EA 2' x 4' x 3' Inlet Protection Sediment Bag.....	65.83	
31 25 14 26-0040 Clean Sediment Logs/Wattles <small>(31 25 14 26)</small>		
Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0041 EA Clean Sediment Logs/Wattles.....	70.13	
31 30 Earthwork Methods <small>(31)</small>		
31 31 Soil Treatment <small>(31 30)</small>		
31 31 16 Termite Control <small>(31 31)</small>		
31 31 16 13 Chemical Termite Control <small>(31 31 16)</small>		
31 31 16 13-0001 Commercial Use <small>(31 31 16 13)</small>		
31 31 16 13-0002 SF Termite Pretreatment, Commercial Soil Poisoning Under Slab	0.74	
31 31 16 13-0003 SF Termite Pretreatment, Commercial Slab And Walls.....	0.74	

31	31 Earthwork
	31 30 Earthwork Methods
	31 31 Soil Treatment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 31 16 13-0004	Residential Use <small>(31 31 16 13)</small>	
31 31 16 13-0005	SF Termite Pretreatment, Residential General Spraying Walls And Slab	0.70
31 31 16 13-0006	SF Termite Treatment, Existing Residential Structure.....	0.98

31 31 19 Vegetation Control (31 31)
31 31 19 13 Chemical Vegetation Control (31 31 19)

31 31 19 13-0001	Soil Sterilants <small>(31 31 19 13)</small>	
31 31 19 13-0002	MSF Soil Sterilant.....	20.34
	Note: Use only in areas where complete control of all vegetation is desired, such as industrial sites, right-of-way, lumberyards, petroleum tank farms, around farm buildings, along fence lines, etc. When applied to the soil, this product usually inhibits plant growth for a year or more.	
	<i>For >45 To 90, Deduct</i>	-0.38
	<i>For >90 To 225, Deduct</i>	-1.77
	<i>For >225, Deduct</i>	-2.52

31 32 Soil Stabilization (31 32)

31 32 13 Soil Mixing Stabilization (31 32)

31 32 13 16 Cement Soil Stabilization (31 32 13)

31 32 13 16-0001	Soil Cement Course <small>(31 32 13 16)</small>	
	Note: Includes soil material, adding and mixing of cement, water and calcium chloride (if required), shaping, finishing and final compaction. Excludes cement, calcium chloride, foundation preparation, compaction water and additional surface treatments.	
31 32 13 16-0002	CY Compacted Soil Cement Course, Material mixed in Central Plant.....	52.82
31 32 13 16-0003	CY Compacted Soil Cement Course, Material mixed in Traveling Pugmill. Cement.....	55.31
31 32 13 16-0004	LB Cement, Per Unit Of Measure.....	0.02
31 32 13 16-0005	LB Flake Calcium Chloride, Per Unit Of Measure	0.47
31 32 13 16-0006	EA Mobilize And Demobilize Traveling Pugmill	150.00

31 32 13 16-0007 Cementitious Soil Binder (31 32 13 16)

31 32 13 16-0008	CY Cementitious Soil Binder, 4% Cement Mix By Volume	31.80
31 32 13 16-0009	CY Cementitious Soil Binder, 6% Cement Mix By Volume	36.87
31 32 13 16-0010	CY Cementitious Soil Binder, 9% Cement Mix By Volume	45.22
31 32 13 16-0011	CY Cementitious Soil Binder, 12% Cement Mix By Volume	53.45

31 32 13 19 Lime Soil Stabilization (31 32 13)

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. The price excludes the cost for spreading or backfilling. See CSI section 01 74 19 00-0051 for hauling greater than 15 miles.

31 32 13 19-0001 Lime Slurry (31 32 13 19)

31 32 13 19-0002	LCY Soil Stabilization With Lime Slurry 10% Lime Slurry By Volume.....	25.57
31 32 13 19-0003	TON Cement Stabilized Base Material	42.39
31 32 13 19-0004	CWT Lime For Soil Stabilization	5.79
	Note: Excludes the cost for spreading or backfilling	
31 32 13 19-0005	LCY Roller, Grader - Lime Stabilization	13.92
31 32 13 19-0006	LCY Roller, Grader - Cement Stabilization	3.25

31 32 13 19-0007 Lime Stabilized Subgrade (31 32 13 19)

Note: Based on soil weight of 110 LB/CF using lime weight of 5.5 LB/CF (5%).

31 32 13 19-0008	SY 6" Thick Lime Stabilized Subgrade, 25 LB.....	6.12
	<i>For 4% Lime Instead Of 5%, Deduct</i>	-0.10
	<i>For 6% Lime Instead Of 5%, Add</i>	0.10
31 32 13 19-0009	SY 7" Thick Lime Stabilized Subgrade, 29 LB.....	7.12
	<i>For 4% Lime Instead Of 5%, Deduct</i>	-0.12
	<i>For 6% Lime Instead Of 5%, Add</i>	0.12
31 32 13 19-0010	SY 8" Thick Lime Stabilized Subgrade, 33 LB.....	8.13
	<i>For 4% Lime Instead Of 5%, Deduct</i>	-0.14
	<i>For 6% Lime Instead Of 5%, Add</i>	0.14
31 32 13 19-0011	SY 10" Thick Lime Stabilized Subgrade, 41 LB/SY	10.16
	<i>For 4% Lime Instead Of 5%, Deduct</i>	-0.17
	<i>For 6% Lime Instead Of 5%, Add</i>	0.17
	<i>For >5,000 SY, Deduct</i>	-0.81
31 32 13 19-0012	SY 12" Thick Lime Stabilized Subgrade, 50 LB/SY	12.20
	<i>For 4% Lime Instead Of 5%, Deduct</i>	-0.20
	<i>For 6% Lime Instead Of 5%, Add</i>	0.20
	<i>For >5,000 SY, Deduct</i>	-0.98
31 32 13 19-0013	SY 14" Thick Lime Stabilized Subgrade, 58 LB/SY	14.20
	<i>For 4% Lime Instead Of 5%, Deduct</i>	-0.24
	<i>For 6% Lime Instead Of 5%, Add</i>	0.24
	<i>For >5,000 SY, Deduct</i>	-1.14



Earthwork	31	13
Earthwork Methods	31 30	
Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 13 19-0014 SY 16" Thick Lime Stabilized Subgrade, 66 LB/SY	16.25	
<i>For 4% Lime Instead Of 5%, Deduct</i>	-0.27	
<i>For 6% Lime Instead Of 5%, Add</i>	0.27	
<i>For >5,000 SY, Deduct</i>	-1.30	
31 32 13 19-0015 SY 18" Thick Lime Stabilized Subgrade, 74 LB/SY	18.29	
<i>For 4% Lime Instead Of 5%, Deduct</i>	-0.30	
<i>For 6% Lime Instead Of 5%, Add</i>	0.30	
<i>For >5,000 SY, Deduct</i>	-1.46	
31 32 13 19-0016 Hydrated Lime Stabilized Subgrade <small>(31 32 13 19)</small>		
Note: Includes scarifying, adding and mixing of hydrated lime and water, light sealing, curing, secondary mixing, shaping, finishing and final compaction. Excludes hydrated lime, foundation preparation, compaction water and additional surface treatments.		
31 32 13 19-0017 CY Compacted Hydrated Lime Stabilized Subgrade	36.77	
31 32 13 19-0018 LB Hydrated Lime	1.15	
31 32 13 29 Liquid Soil Stabilization <small>(31 32 13)</small>		
31 32 13 29-0001 GAL Polyacrylamide And Calcium Solution	2.31	
31 32 19 Geosynthetic Soil Stabilization And Layer Separation <small>(31 32)</small>		
31 32 19 13 Geogrid Soil Stabilization <small>(31 32 19)</small>		
31 32 19 13-0001 Geogrid Fabrics <small>(31 32 19 13)</small>		
Note: For reinforcement of over steepened earth slopes, segmental retaining walls and other mechanically stabilized earth applications.		
31 32 19 13-0002 SY 5.3 Oz/SY, 1,700 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-150)	2.43	
<i>For Up To 50, Add</i>	0.57	
<i>For >50 To 150, Add</i>	0.42	
<i>For >150 To 250, Add</i>	0.27	
<i>For >250 To 500, Add</i>	0.14	
31 32 19 13-0003 SY 6.9 Oz/SY, 3,100 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-300)	2.76	
<i>For Up To 50, Add</i>	0.64	
<i>For >50 To 150, Add</i>	0.47	
<i>For >150 To 250, Add</i>	0.31	
<i>For >250 To 500, Add</i>	0.15	
31 32 19 13-0004 SY 8.7 Oz/SY, 4,280 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-500)	3.01	
<i>For Up To 50, Add</i>	0.70	
<i>For >50 To 150, Add</i>	0.52	
<i>For >150 To 250, Add</i>	0.33	
<i>For >250 To 500, Add</i>	0.17	
31 32 19 13-0005 SY 12.6 Oz/SY, 7,315 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-800)	4.28	
<i>For Up To 50, Add</i>	0.96	
<i>For >50 To 150, Add</i>	0.71	
<i>For >150 To 250, Add</i>	0.46	
<i>For >250 To 500, Add</i>	0.23	
31 32 19 13-0006 SY 14.1 Oz/SY, 9,790 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-1000)	4.89	
<i>For Up To 50, Add</i>	1.08	
<i>For >50 To 150, Add</i>	0.80	
<i>For >150 To 250, Add</i>	0.52	
<i>For >250 To 500, Add</i>	0.26	
31 32 19 13-0007 SY 4.3 Oz/SY, 1,658 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 20)	2.47	
<i>For Up To 50, Add</i>	0.58	
<i>For >50 To 150, Add</i>	0.43	
<i>For >150 To 250, Add</i>	0.28	
<i>For >250 To 500, Add</i>	0.14	
31 32 19 13-0008 SY 5.9 Oz/SY, 2,192 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 30)	3.58	
<i>For Up To 50, Add</i>	0.81	
<i>For >50 To 150, Add</i>	0.60	
<i>For >150 To 250, Add</i>	0.39	
<i>For >250 To 500, Add</i>	0.19	
31 32 19 16 Geotextile Soil Stabilization <small>(31 32 19)</small>		
31 32 19 16-0001 Nonwoven Polypropylene Geotextiles <small>(31 32 19 16)</small>		
Note: For drainage, filtration and separation.		
31 32 19 16-0002 SY 3.0 Oz/SY, 40 Mil, 80 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-30HS)	0.76	
<i>For Up To 50, Add</i>	0.19	
<i>For >50 To 150, Add</i>	0.14	
<i>For >150 To 250, Add</i>	0.09	
<i>For >250 To 500, Add</i>	0.04	

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31 32 19 16-0003 SY 3.5 Oz/SY, 50 Mil, 95 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-35HS).....	0.82	
For Up To 50, Add	0.20	
For >50 To 150, Add	0.15	
For >150 To 250, Add	0.09	
For >250 To 500, Add	0.05	
31 32 19 16-0004 SY 4.0 Oz/SY, 60 Mil, 115 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-40HS).....	0.88	
For Up To 50, Add	0.21	
For >50 To 150, Add	0.15	
For >150 To 250, Add	0.10	
For >250 To 500, Add	0.05	
31 32 19 16-0005 SY 4.5 Oz/SY, 55 Mil, 120 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-45HS).....	0.94	
For Up To 50, Add	0.22	
For >50 To 150, Add	0.16	
For >150 To 250, Add	0.11	
For >250 To 500, Add	0.05	
31 32 19 16-0006 SY 6.0 Oz/SY, 70 Mil, 160 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-60HS).....	1.11	
For Up To 50, Add	0.26	
For >50 To 150, Add	0.19	
For >150 To 250, Add	0.12	
For >250 To 500, Add	0.06	
31 32 19 16-0007 SY 7.0 Oz/SY, 85 Mil, 180 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-70HS).....	1.31	
For Up To 50, Add	0.30	
For >50 To 150, Add	0.22	
For >150 To 250, Add	0.15	
For >250 To 500, Add	0.07	
31 32 19 16-0008 SY 8.0 Oz/SY, 85 Mil, 205 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-80HS).....	1.44	
For Up To 50, Add	0.33	
For >50 To 150, Add	0.24	
For >150 To 250, Add	0.16	
For >250 To 500, Add	0.08	
31 32 19 16-0009 SY 10 Oz/SY, 115 Mil, 250 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS).....	1.76	
For Up To 50, Add	0.39	
For >50 To 150, Add	0.29	
For >150 To 250, Add	0.19	
For >250 To 500, Add	0.10	
31 32 19 16-0010 SY 16 Oz/SY, 175 Mil, 425 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric.....	3.81	
For Up To 50, Add	0.80	
For >50 To 150, Add	0.60	
For >150 To 250, Add	0.40	
For >250 To 500, Add	0.20	
31 32 19 16-0011 Woven Geotextiles Fabric (31 32 19 16)		
31 32 19 16-0012 SY 200 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-55).....	1.08	
For Up To 50, Add	0.25	
For >50 To 150, Add	0.18	
For >150 To 250, Add	0.12	
For >250 To 500, Add	0.06	
31 32 19 16-0013 SY 315 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-66).....	1.51	
For Up To 50, Add	0.34	
For >50 To 150, Add	0.25	
For >150 To 250, Add	0.16	
For >250 To 500, Add	0.08	
31 32 19 16-0014 SY 4 To 6% Open Area, 370 x 250 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 6%).....	2.64	
For Up To 50, Add	0.57	
For >50 To 150, Add	0.42	
For >150 To 250, Add	0.28	
For >250 To 500, Add	0.14	
31 32 19 16-0015 SY 11 To 15% Open Area, 370 x 220 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 15%).....	2.58	
For Up To 50, Add	0.56	
For >50 To 150, Add	0.42	
For >150 To 250, Add	0.27	
For >250 To 500, Add	0.14	
31 32 19 16-0016 SY 6.9 Oz/SY, 250 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX- 250TF).....	2.26	
For Up To 50, Add	0.49	
For >50 To 150, Add	0.37	
For >150 To 250, Add	0.24	
For >250 To 500, Add	0.12	
31 32 19 16-0017 SY 9.1 Oz/SY, 333 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX- 330TF).....	2.41	
For Up To 50, Add	0.52	
For >50 To 150, Add	0.39	
For >150 To 250, Add	0.26	
For >250 To 500, Add	0.13	
31 32 19 16-0018 SY 12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX- 400TF).....	3.06	
For Up To 50, Add	0.65	
For >50 To 150, Add	0.49	
For >150 To 250, Add	0.32	
For >250 To 500, Add	0.16	



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31 32 19 16-0019	SY		12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Monofilament And Fibrillated Geotextile Fabric (Carthage Mills FX-400MF)	4.35	
			<i>For Up To 50, Add</i>	0.91	
			<i>For >50 To 150, Add</i>	0.68	
			<i>For >150 To 250, Add</i>	0.45	
			<i>For >250 To 500, Add</i>	0.22	
31 32 19 16-0020			Geomembranes <small>(31 32 19 16)</small>		
31 32 19 16-0021			Polyvinyl Chloride (PVC) Geomembrane <small>(31 32 19 16-0020)</small>		
31 32 19 16-0022	SF		20 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	0.86	
31 32 19 16-0023	SF		30 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.00	
31 32 19 16-0024	SF		40 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.19	
31 32 19 16-0025	SF		50 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.42	
31 32 19 16-0026	SF		60 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.62	
31 32 19 16-0027	SF		70 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.76	
31 32 19 16-0028	SF		80 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.91	
31 32 19 16-0029	SF		90 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.10	
31 32 19 16-0030	SF		100 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.30	
31 32 19 16-0031			High Density Polyethylene (HDPE) Geomembrane <small>(31 32 19 16-0020)</small>		
31 32 19 16-0032	SF		20 Mil High Density Polyethylene Membrane (US Fabrics)	0.85	
31 32 19 16-0033	SF		30 Mil High Density Polyethylene Membrane (US Fabrics)	1.24	
31 32 19 16-0034	SF		40 Mil High Density Polyethylene Membrane (US Fabrics)	1.48	
31 32 19 16-0035	SF		50 Mil High Density Polyethylene Membrane (US Fabrics)	2.53	
31 32 19 16-0036	SF		60 Mil High Density Polyethylene Membrane (US Fabrics)	1.93	
31 32 19 16-0037	SF		80 Mil High Density Polyethylene Membrane (US Fabrics)	2.41	
31 32 19 16-0038	SF		100 Mil High Density Polyethylene Membrane (US Fabrics)	2.90	
31 32 19 16-0039	SF		120 Mil High Density Polyethylene Membrane (US Fabrics)	5.37	
31 32 19 16-0040	SF		140 Mil High Density Polyethylene Membrane (US Fabrics)	5.57	
31 32 19 16-0041			Rock Slope Protection Fabric (Monterey County) <small>(31 32 19 16)</small>		
31 32 19 16-0042	SY		Rock Slope Protection Fabric, Drainage Outlet (Monterey County)	5.68	
31 32 19 26			Geoweb Cellular Confinement System <small>(31 32 19)</small>		
			Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0001			Geoweb Cellular Confinement System <small>(31 32 19 26)</small>		
			Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0002	SF		4" Geoweb Cellular Confinement System (Presto Geosystems)	4.63	
			<i>For >20,000, Deduct</i>	-0.08	
			<i>For >2:1 Slope, Add</i>	0.98	
31 32 19 26-0003	SF		6" Geoweb Cellular Confinement System (Presto Geosystems)	5.38	
			<i>For >20,000, Deduct</i>	-0.12	
			<i>For >2:1 Slope, Add</i>	0.98	
31 32 19 26-0004	SF		8" Geoweb Cellular Confinement System (Presto Geosystems)	6.28	
			<i>For >20,000, Deduct</i>	-0.17	
			<i>For >2:1 Slope, Add</i>	0.98	
31 32 36			Soil Nailing <small>(31 32)</small>		
31 32 36 00-0001			Landslide and Slip-Out Stabilization <small>(31 32 36)</small>		
			Note: Work shall consist of the Contractor stabilizing identified slides by internally reinforcing the soil mass with reinforcing elements (nails) by using one or more of the installation methods specified in this contract. The Owner will identify locations for work to be performed as specified herein. The Contractor shall review all locations with Owner representatives to determine the method to be used. The Contractor will provide all necessary engineering plans and details required to successfully repair slides as noted. These plans shall be stamped by a registered professional engineer with a current California license who is knowledgeable in the design and implementation of slope stabilization with soil nails and related work. The contractor shall furnish all labor, materials, and equipment required to complete the work. Any necessary installation methods and associated costs are the responsibility of the contractor. The Contractor and the Contractor's Engineer will also warrant the stability of the repaired roadway section for a period of 5 years.		
31 32 36 00-0002			Launched Soil Nails™ <small>(31 32 36 00-0001)</small>		
			Note: Furnish Launched Soil Nails™ up to 20 feet in length composed of a tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized 36ksi steel (ASTM A513) that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities). Alternately, the tube may be composed of fiberglass (1.5 inch outside diameter, 0.5 inch wall thickness Strongwell EXTREN Series 625 Vinyl Ester fiberglass. Furnish equipment and incidentals necessary to complete the work. Insert Launched Soil Nails™ with a single stroke at initial velocities in excess of 200 miles per hour. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 00-0091 for Daily Crew Rates (DCR).		
31 32 36 00-0003	EA		GalvaDized™ SuperDrain™	550.00	
			Note: perforated GalvaDized™ steel tube up to 20 ft. length.		
31 32 36 00-0004	EA		Fiberglass SuperNail®	565.00	
			Note: perforated fiberglass tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.		
31 32 36 00-0005	EA		GalvaDized™ SuperNail®	435.00	
			Note: perforated GalvaDized™ steel tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.		

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31 32 36 00-0006 EA Temporary Launched Soil Nail..... Note: bare steel tube up to 20 ft. length.	345.00	
31 32 36 00-0007 EA Fiberglass SuperDrain™..... Note: perforated fiberglass tube up to 20 ft. length.	450.00	
31 32 36 00-0008 EA GalvaDized™ SuperDrain™..... Note: perforated GalvaDized™ steel tube up to 20 ft. length.	345.00	
31 32 36 00-0009 Drilled SuperNails® (Permanently Cased Soil Nails) <small>(31 32 36 00-0001)</small> Note: Furnish SuperNails® that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 threadbar as the inner bar. SuperNails® may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperNail® outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner threadbar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 00-0091 for Daily Crew Rates (DCR).		
31 32 36 00-0010 EA Drilled GalvaDized™ SuperNail® up to 20 ft. length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	500.00	
31 32 36 00-0011 EA Drilled GalvaDized™ SuperNail® up to 30 ft. length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	690.00	
31 32 36 00-0012 EA Drilled GalvaDized™ SuperNail® up to 40 ft. length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	785.00	
31 32 36 00-0013 EA Drilled GalvaDized™ SuperNail® up to 50 ft. length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	875.00	
31 32 36 00-0014 EA Drilled GalvaDized™ SuperNail® up to 60 ft. length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,035.00	
31 32 36 00-0015 EA Drilled GalvaDized™ SuperNail® up to 70 ft. length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,190.00	
31 32 36 00-0016 EA Drilled GalvaDized™ SuperNail® up to 80 ft. length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,345.00	
31 32 36 00-0017 Self-Drilling SuperNails® / SuperMicropiles™ <small>(31 32 36 00-0001)</small> Note: Furnish Self-Drilling SuperNails® / SuperMicropiles™ that consist of a hollow, threaded bar with a sacrificial drill bit. Multiple bars may be coupled to produce final length. Bar thread pattern should be continuous and conform to the pullout requirements of ASTM A 615 (Williams Form Engineering "B7X" or Ischebeck "Titan" bars, or approved equivalent), R-thread bars, bars/couplers made from high carbon (>0.20%) or high phosphorous (>0.06%) steels, or bars/couplers made from steels that do not meet the tensile ductility requirements of ASTM A 615 shall not be used for any tensile applications. Bar outer diameters shall be a minimum of 1.5 inches and up to and 3 inches depending on design load. Corrosion Protection for Self Drilling Nails shall follow current FHWA guidance. Inserted length and spacing of Self-Drilling SuperNails® / SuperMicropiles™ will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 00-0091 for Daily Crew Rates (DCR).		
31 32 36 00-0018 Self-Drilling SuperNails® <small>(31 32 36 00-0017)</small>		
31 32 36 00-0019 EA Self Drilling SuperNails® up to 20-ft	600.00	
31 32 36 00-0020 EA Self Drilling SuperNails® up to 30-ft	825.00	
31 32 36 00-0021 EA Self Drilling SuperNails® up to 40-ft	1,160.00	
31 32 36 00-0022 EA Self Drilling SuperNails® up to 50-ft	1,410.00	
31 32 36 00-0023 EA Self Drilling SuperNails® up to 60-ft	1,685.00	
31 32 36 00-0024 EA Self Drilling SuperNails® up to 70-ft	1,945.00	
31 32 36 00-0025 EA Self Drilling SuperNails® up to 80-ft	2,220.00	
31 32 36 00-0026 EA Additional Cost for 10' High Capacity X-51 Bar.....	95.00	
31 32 36 00-0027 SuperNail® Testing <small>(31 32 36 00-0001)</small> Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 00-0091 for Daily Crew Rates (DCR).		
31 32 36 00-0028 EA SuperNail® Proof Testing	695.00	
31 32 36 00-0029 EA SuperNail® Verification Testing	1,385.00	
31 32 36 00-0030 BioWall® <small>(31 32 36 00-0001)</small> Note: Furnish and install the BioWall® to integrate with Launched Soil Nails™, SuperNails® or Self Drilling SuperNails®. The BioWall® is a confined soil/compost mass capable of sustaining vegetation at slope angles up to ¼(H):1(V), and is composed of 2 layers of galvanized wire mesh and 2 layers of lightweight geosynthetic encasing a seeded compost and/or topsoil mix, tied to the soil nails by steel plates. Furnish equipment and incidentals necessary to complete the work. BioWall® to soil nail connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 00-0091 for Daily Crew Rates (DCR).		
31 32 36 00-0031 SF BioWall® Construction.....	21.00	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 32 36 00-0032

GeoSynthetically Confined Soil™ (GCS®) Components (31 32 36 00-0001)

Note: Furnish and install geosynthetic reinforcement, backfill and facing element to construct a Geosynthetically Confined Soil Wall™ (GCS®). Designs shall comply with the Design Standards for Geosynthetically Confined Soil Walls (adapted from the NCHRP Report 556 --"Design and Construction Guidelines for Geosynthetic -- Reinforced Soil Bridge Abutments with a Flexible Facing") noted below. Reinforcement Selection and Placement: Geosynthetic reinforcement shall consist of high-tenacity geotextiles manufactured for soil reinforcement applications. Geotextiles shall not be exposed to sunlight and extreme temperatures for an extended period of time. Damaged or improperly handled geosynthetic reinforcement shall be rejected. Use a woven polypropylene geotextile with ultimate tensile strength of 2400 lbs/ft (Amoco 2044 or similar) in the cross-machine direction (as per ASTM D4595). The geosynthetic reinforcement perpendicular to the wall face should consist of one continuous piece of material. Overlap of reinforcement in the design strength direction is not permitted. Adjacent sections of geosynthetic reinforcement should be placed so as to ensure that horizontal coverage shown on the plans is provided. Tracked construction equipment shall not be operated directly on the geosynthetic reinforcement. A minimum backfill thickness of 150 mm (6 in.) is required before operation of tracked vehicles over the geosynthetic reinforcement. Turning of tracked vehicles should be kept to a minimum to prevent displacing the fill and damaging or moving the geosynthetic reinforcement. Rubber-tired equipment may pass over the geosynthetic reinforcement at slow speeds less than 17 km/hr (10 miles/hr). Sudden braking and sharp turning should be avoided. Backfill Specifications: Structure backfill material should consist of material free from organic or other unsuitable material as determined by the Contractor's Engineer. Grading of the backfill should be as follows: 100 percent passing 100 mm (4 in.) sieve, 0-60 percent passing No. 40 (0.425 mm) sieve, and 0-15 percent passing No. 200 (0.075mm) sieve; plasticity index (PI) as determined by AASHTO T90, should not exceed 6. The backfill should exhibit an angle of internal friction of not less than 34 degrees, as determined by the standard direct shear test on the portion finer than 2 mm (No.10) sieve, using a sample compacted to 95 percent of AASHTO T-99, Methods C or D, at optimum moisture content. No testing is required for backfills where 80 percent of sizes are greater than 19 mm. The backfill should be substantially free of shale or other soft, poor durability particles and should have an organic content not larger than 1 percent. The backfill should have a pH between 4.5 and 9. Backfill Placement: Reinforced fill should be placed as specified in construction plans in compacted lift thickness of 8in, but in no case in lifts greater than 12in. Reinforced fill should be placed and compacted at or within 2 percent dry of the optimum moisture content. If the reinforced fill is free draining (i.e., with less than 5 percent passing a No. 200 sieve), water content of the fill may be within ±3 percent of the optimum. A minimum density of 90 percent of standard Proctor density is required. Optimum compaction is 100 percent of AASHTO T-99 (or 95 percent of AASHTO T-180) but this may not be possible throughout the wall structure. If significant percentage of the backfill is coarse material (i.e., greater than 30 percent retained on the 19 mm, or 3/4 in., sieve), a procedural specification may be used to verify compaction, (no less than two passes with a conventional vibratory plate compaction equipment). Backfill should be placed, spread, and compacted so as to prevent the development of wrinkles or movement of the geosynthetic reinforcement and the wall facing units. Only hand-operated compaction equipment should be allowed within 0.5 m (1.5 ft) of the front of t See CSI section 31 32 36 00-0091 for Daily Crew Rates (DCR).

31 32 36 00-0033	SF	GeoSynthetically Confined Soil™ (GCS®) Wall Construction 10.75 Note: Installation sold per square face foot (excludes materials)	10.75
31 32 36 00-0034	EA	GeoSynthetically Confined Soil™ (GCS®) Wall Galvanized Wire Basket Units (approximately 10' x 120')	96.00
31 32 36 00-0035	EA	GeoSynthetically Confined Soil™ (GCS®) Wall Concrete Masonry Units (approximately 8' x 8' x 16')	4.50
31 32 36 00-0036	SF	GeoSynthetically Confined Soil™ (GCS®) Wall Woven Geotextile	0.75

31 32 36 00-0037

Turf (31 32 36 00-0001)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 00-0091 for Daily Crew Rates (DCR).

31 32 36 00-0038

Permanent Turf Reinforcing Mat (TRM) (31 32 36 00-0037)

Note: Furnish a web of mechanically bonded synthetic fibers that are entangled to form a strong and dimensionally stable mat. Place fibers between 2 or 3 high-strength, biaxially oriented nets mechanically bound together by stitching with polyolefin thread. The netting material must be resistant to biological, chemical, and ultra-violet degradation.

31 32 36 00-0039	SF	Permanent Turf Reinforcement Mat..... 1.25 Note: sold per square face foot	1.25
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31 32 36 00-0040

Biodegradable Turf Reinforcing Mat (TRM) (31 32 36 00-0037)

Note: Furnish a geotextile composed of seed free processed natural fiber matrix mechanically bound together with 100% degradable binding fiber or netting to form a continuous matrix.

31 32 36 00-0041	SF	Biodegradable Turf Reinforcement Mat 0.50 Note: sold per square face foot	0.50
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31 32 36 00-0042

Shotcrete or Gunite (31 32 36 00-0001)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 00-0091 for Daily Crew Rates (DCR).

31	31 Earthwork
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 32 36 00-0043

Wet-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 00-0042)

Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a wet-mix. The wet-mix process consists of thoroughly mixing all the ingredients except accelerating admixtures, but including the mixing water, introducing the mixture into the delivery equipment and delivering it, by positive displacement, to the nozzle. Air jet the wet-mix shotcrete from the nozzle at high velocity onto the surface. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement

- AASHTO M85/ ASTM C150, Type I, II, III or V. Fine Aggregate
- AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate
- Class B for quality Water Clean and Potable.
- Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141.
- Water-reducer and Superplasticizer
- Retarders
- AASHTO M157/ASTM C94 Chemical Admixtures
- AASHTO M194/ASTM C494 Type A, C, D, E, F, or G
- AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures
- AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement.
- Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement.
- Welded Wire Fabric
- Shotcrete
- ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged
- ASTM C928. PVC Drain Pipes: Pipe
- ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size

100 Proportion of the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 Psi in 3 days and 4000 Psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. Use mixing equipment that thoroughly blends the materials in sufficient quantity to maintain placing continuity. Produce ready mix shotcrete complying with A

31 32 36 00-0044	SFI Wet-Mix Reinforced Shotcrete	4.25
	Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).	



	Earthwork	31	
	Earthwork Methods	31 30	13
	Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 00-0045 Dry-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ ^(31 32 36 00-0042) Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a dry-mix. The dry-mix process consists of thoroughly mixing Portland cement and aggregate (and or synthetic fiber) thoroughly mixed dry, passed through a cement gun and conveyed by air through a flexible tube, hydrated at a nozzle at the end of such flexible tube and deposited by air pressure in its place of final repose. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, or III. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate Class B for quality Fiber Reinforcement Water Clean and Potable. AASHTO M157/ASTM C94 and shall be maintained at a uniform pressure which shall be at least 15 pounds per square inch above air pressure at the nozzle. Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplasticizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 Psi in 3 days and 4000 Psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. Use		
31 32 36 00-0046 SFI Dry-Mix Reinforced Gunite.....		5.75
Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).		
31 32 36 00-0047 Steel Fiber Reinforcement for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ ^(31 32 36 00-0042)		
31 32 36 00-0048 SFI Steel Fiber Reinforcement		1.00
Note: sold per inch thickness over one square face foot of area		
31 32 36 00-0049 Steel Mesh and Steel Plates for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® ^(31 32 36 00-0001) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 00-0091 for Daily Crew Rates (DCR).		
31 32 36 00-0050 Steel Mesh Surface Treatment for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® ^(31 32 36 00-0049) Note: Furnish Galfan® Coated Steel Mesh for use with Launched Soil Nails™, SuperNails®, or Self Drilling SuperNails® that is a double twisted hexagonal galvanized steel wire mesh manufactured according to ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions. Alternately, the mesh may be a diamond shaped, three dimensional mesh made with high capacity 3-millimeter diameter wire. Furnish steel plates to connect the mesh to the nail systems described herein. Furnish equipment and incidentals necessary to complete the work. Soil Nail to mesh connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.		
31 32 36 00-0051 SF High Capacity Diamond Mesh		10.00
Note: sold per square face foot		
31 32 36 00-0052 SF Double Twist Wire Mesh.....		12.50
Note: sold per square face foot		
31 32 36 00-0053 Steel Plates ^(31 32 36 00-0049)		
31 32 36 00-0054 EA Galvanized Steel Plates (8x8).....		31.50
31 32 36 00-0055 EA Galvanized Steel Plates (10x10).....		40.00
31 32 36 00-0056 EA Galvanized Steel Plates (12x12).....		54.00
31 32 36 00-0057 Drilled Horizontal Drains ^(31 32 36 00-0001) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 00-0091 for Daily Crew Rates (DCR).		

31	31	Earthwork
	31 30	Earthwork Methods
	31 32	Soil Stabilization



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 00-0058 LF Drilled PVC Horizontal Drains (up to 2" Diameter).....	18.75	
31 32 36 00-0059 LF Stripdrain (6" Wide).....	3.25	
31 32 36 00-0060 LF PVC Drain Collector Pipe System.....	14.50	
31 32 36 00-0061		
Rockfall Stabilization <small>(31 32 36 00-0001)</small>		
Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 00-0091 for Daily Crew Rates (DCR).		
31 32 36 00-0062 SF Scaling.....	3.75	
31 32 36 00-0063 SF Trim Blasting.....	155.00	
31 32 36 00-0064 SY Slope Drape - Double Twist Wire Mesh.....	41.00	
31 32 36 00-0065 SY Slope Drape - Cable Net.....	130.00	
31 32 36 00-0066 SY Slope Drape - Tecco Mesh (4mm).....	130.00	
31 32 36 00-0067 LF Temporary Rockfall Barrier.....	470.00	
31 32 36 00-0068 LF Low Reach Drilling (<25 feet).....	21.00	
31 32 36 00-0069 LF High Reach Drilling (>25 feet).....	40.00	
31 32 36 00-0070 LF Limited Access Drilling.....	94.00	
31 32 36 00-0071 LF F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Galvanized).....	16.75	
31 32 36 00-0072 LF F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Galvanized).....	26.50	
31 32 36 00-0073 LF F&I Rock Dowel - 8# Grade 150 All-Thread Bar (Galvanized).....	21.00	
31 32 36 00-0074 LF F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Galvanized).....	31.50	
31 32 36 00-0075 EA Rock Anchor Testing.....	795.00	
31 32 36 00-0076		
Grouting <small>(31 32 36 00-0001)</small>		
Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 00-0091 for Daily Crew Rates (DCR).		
31 32 36 00-0077		
Compaction Grouting <small>(31 32 36 00-0076)</small>		
Note: A. Furnish compaction grout material manufactured on-site (at the project location) in volumetric batching equipment so that grout rheology can be controlled real-time. The grout shall have a slump of 0.50" to 3.0" depending on the specific requirements of the project and shall conform to the engineering plans developed and submitted by the Contractor. Grout components shall consist of Type I/II cement, potable water and aggregate. Fly Ash may be added to the mix per the engineering plans. All aggregate for the compaction grout material shall meet the following requirements: a. 100% passing the 1/2" sieve b. Less than 2% organics c. No bentonite or other clay of medium to high plasticity shall be used. Site conditions and re-leveling requirements shall determine the exact proportions of cement, water and soil. The grout mix shall generally consist of aggregate with up to 12% cement by weight and water to form a very stiff mortar-like mixture. No admixtures shall be used without the Project Manager's approval, and previous testing. Mix design and test results of grout mixture must be submitted and approved by the Project Manager 15 Days prior to the commencement of the work. A. Gradations of the aggregate material to be utilized shall be submitted as part of the submittal process and prior to any work taking place. B. The compaction grouting mixer shall be of a type to ensure complete mixing of the stiff grout, as approved by the Project Manager. The compaction grout mixer shall be of sufficient capacity to continuously deliver grout having a slump of less than 1.5 inches at pressures up to 1,000 psi, at flow rates ranging from 0.1 to 5.0 cubic feet per minute. Gauges shall be provided at the pump and the grout pipe head to measure pressure the rate of flow. Type and location of gauges shall be as specified by the Contractor. A dial gauge or meter capable of measuring to 0.5 cubic feet or less shall be provided to measure the amount of grout pumped into the hole. A pressure gauge shall be graduated in 10-psi increments or less and used to measure the applied pressure. Compaction grout hose shall have a minimum inside diameter of 2 inches with non-restrictive full flow couplings. The hose shall be of sufficient strength for the pressures anticipated, and shall be in good condition.		
31 32 36 00-0078 LF Compaction Grouting Casing Installation.....	21.00	
31 32 36 00-0079 CF Compaction Grout Injection for Soils Densification.....	16.00	
31 32 36 00-0080 CF Compaction Grout For Void Fill.....	16.00	
31 32 36 00-0081		
Polyurethane Grouting <small>(31 32 36 00-0076)</small>		
Note: A. The material shall be a two part 1:1 ratio by volume, polyurethane-forming mixture, having a water insoluble diluent, which permits the formation of polyurethanes in excess water. The material shall reach 90% Compressive strength in 30 minutes such that traffic may be returned to roadway within 30 minutes after last injection of material. Polyurethane Free-rise Physical Properties Property I Units ASTM Minimum Maximum Density - lb/cf D 1622 3.0 lb/cf 6.0 lb/cf Tensile Strength - psi D 1623 80 psi Compressive Strength at Yield Point - psi D 1621 60 psi B. Furnish equipment and incidentals necessary to complete the work. Polyurethane grout shall not be used for deep injection (deeper than 3 ft below bottom of structure) or soils densification, it shall only be used for void filling under structures and for re-leveling. The Contractor shall prepare a profile to determine the areas that require void filling and re-leveling and determine the locations of the injection holes for each treated area. The Contractor shall obtain approval for the final proposed grades and the location of injection holes. The Contractor shall submit a plan for approval of the proposed polyurethane injection methods for the designated project areas. The plan shall include, but not be limited to: proposed diameter of casing (if required), depth of placement, angle of inclination, injection tube spacing, and project staging. The plan shall include monitoring procedures to ensure that damage will not occur to any existing structures due to the injection process. Monitoring devices shall be installed on mechanically stabilized earth retaining systems and between approach slabs and approach slab footings or other components to help prevent damage. The Contractor shall drill a pattern of holes as proposed in his plan. The holes shall be located in a manner that the void filling and structure lifting process does not affect any adjoining structures, such as mechanically stabilized earth retaining walls. Holes shall not be drilled within 4" of the edge of the slab, construction joints or major cracks. No more holes shall be drilled and tubes installed during the day than can be filled during that day. On bridge approach and roadway projects, and as applicable, the initial lift shall be at the sleeper footer. The Contractor shall lift the sleeper footer and the approach slab to the desired elevation by injecting material under the structures with care to assure that polyurethane material is not placed between the sleeper footer and the approach slab. The amount of rise shall be controlled by regulating the rate of injection of the high density polyurethane material. When the nozzle is removed from the hole, any excessive polyurethane material shall be removed from the area.		
31 32 36 00-0082 LB Polyurethane Grouting For Void Fill and Re-Leveling.....	9.75	



Earthwork	31	13
Earthwork Methods	31 30	
Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 32 36 00-0083 Large Diameter Micropiles (31 32 36 00-0001)
 Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 00-0091 for Daily Crew Rates (DCR).

31 32 36 00-0084	LF	5" Micropiles (with up to 5.5" steel casing).....	85.85
31 32 36 00-0085	LF	7" Micropiles (with up to 7.625" steel casing).....	118.22
31 32 36 00-0086	LF	10" Micropiles (with up to 9.625" steel casing).....	151.32
31 32 36 00-0087	LF	12" Micropiles (with up to 11.875" steel casing).....	193.69

31 32 36 00-0088 Mobilization / Demobilization (31 32 36 00-0001)

31 32 36 00-0089	EA	Mobilization.....	16,675.00
31 32 36 00-0090	EA	Limited Access, Rockfall & Compaction Grouting Mobilization, in addition to Mobilization.....	9,775.00

31 32 36 00-0091 Daily Crew Rates (DCR) (31 32 36 00-0001)

31 32 36 00-0092	DAY	Soils Stabilization Crew, Per Workday.....	10,550.00
31 32 36 00-0093	DAY	Rockfall Stabilization Crew, Per Workday.....	9,350.00
31 32 36 00-0094	DAY	Compaction Grouting Crew, Per Workday.....	12,600.00
31 32 36 00-0095	EA	Additional Crew Member/Crew	2,100.00
31 32 36 00-0096	EA	Out of State Crew Rotation.....	4,350.00

31 35 Slope Protection (31 30)

31 35 19 Geosynthetic Slope Protection (31 35)

31 35 19 19 Slope Protection with Mulch Control Netting (31 35 19)

31 35 19 19-0001 Erosion Control Fabric (31 35 19 19)

31 35 19 19-0002	SY	26.6 OZ/SY Erosion Control Fabric (Belton Industries Geocoir 900).....	3.17
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31 36 Gabions (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, unloading and placing. See CSI section 01 74 19 00-0051 for hauling greater than 15 miles.

31 36 13 Gabion Boxes (31 36)

31 36 13 00-0001 Stone Filled Gabion Slope Protection (31 36 13)
 Note: Machine placed by SY of total top face area for depth indicated.

31 36 13 00-0002	SY	6" Deep Stone Filled Gabion Slope Protection	46.34
31 36 13 00-0003	SY	9" Deep Stone Filled Gabion Slope Protection	53.91
31 36 13 00-0004	SY	12" Deep Stone Filled Gabion Slope Protection	63.14
31 36 13 00-0005	SY	15" Deep Stone Filled Gabion Slope Protection	75.34
31 36 13 00-0006	SY	18" Deep Stone Filled Gabion Slope Protection	88.72
31 36 13 00-0007	SY	24" Deep Stone Filled Gabion Slope Protection	120.83
31 36 13 00-0008	SY	36" Deep Stone Filled Gabion Slope Protection	152.12

31 37 Riprap (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, and dumping. See CSI section 01 74 19 00-0051 for hauling greater than 15 miles.

31 37 00 00-0001 Random - Filter Stone (31 37)

31 37 00 00-0002	CY	10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	35.52
		<i>For Chinking Material, Add</i>	13.26
31 37 00 00-0003	CY	>50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	40.29
		<i>For Chinking Material, Add</i>	13.26
31 37 00 00-0004	CY	>100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	42.54
		<i>For Chinking Material, Add</i>	13.26
31 37 00 00-0005	CY	>200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	45.10
		<i>For Chinking Material, Add</i>	13.26
31 37 00 00-0006	CY	>300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	47.17
		<i>For Chinking Material, Add</i>	13.26
31 37 00 00-0007	CY	>600 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	50.54
31 37 00 00-0008	CY	3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap.....	67.80
31 37 00 00-0009	TON	10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	24.05
31 37 00 00-0010	TON	>50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	27.09
31 37 00 00-0011	TON	>100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	28.51
31 37 00 00-0012	TON	>200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	30.14
31 37 00 00-0013	TON	>300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	31.45
31 37 00 00-0014	TON	>600 LB Average Pieces Random, Dumped From Truck, Rip Rap.....	33.62
31 37 00 00-0015	TON	3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap.....	46.91

31 40 Shoring And Underpinning (31)

31 41 Shoring (31 40)

31 Earthwork**31 40 Shoring And Underpinning****31 41 Shoring**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**31 41 13 Timber Shoring** ^(31 41)

31 41 13 00-0001	Wood Sheet Piling ^(31 41 13)	
31 41 13 00-0002	Pull And Salvage ^(31 41 13 00-0001)	
	Note: Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.	
31 41 13 00-0003	SF Wood Shoring, 8' Deep Excavation, Pull And Salvage	10.80
	For Wood Sheeting Left In Place	-1.16
31 41 13 00-0004	SF Wood Shoring, 10' Deep Excavation, Pull And Salvage	11.68
	For Wood Sheeting Left In Place	-1.35
31 41 13 00-0005	SF Wood Shoring, 12' Deep Excavation, Pull And Salvage	12.67
	For Wood Sheeting Left In Place	-1.54
31 41 13 00-0006	SF Wood Shoring, 14' Deep Excavation, Pull And Salvage	13.73
	For Wood Sheeting Left In Place	-1.76
31 41 13 00-0007	SF Wood Shoring, 16' Deep Excavation, Pull And Salvage	14.88
	For Wood Sheeting Left In Place	-2.00
31 41 13 00-0008	SF Wood Shoring, 18' Deep Excavation, Pull And Salvage	16.14
	For Wood Sheeting Left In Place	-2.26
31 41 13 00-0009	SF Wood Shoring, 20' Deep Excavation, Pull And Salvage	17.51
	For Wood Sheeting Left In Place	-2.55

31 41 16 Sheet Piling ^(31 41)**31 41 16 13 Steel Sheet Piling** ^(31 41 16)

31 41 16 13-0001	Standard Carbon Grade Steel Sheeting - Pull And Salvage ^(31 41 16 13)	
	Note: Up to 3 months. 38.5 KSI steel per SF minimum. PSF indicated is for the weight of the material per square foot. Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.	
31 41 16 13-0002	TON Shoring For 15' Excavation, 22 PSF Steel Sheeting, Pull And Salvage.....	1,813.46
	For Standard Sheeting Left In Place, Add	981.07
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,395.47
	For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	103.60
	For High Strength Sheeting 55,000 PSI Grade, Add	115.11
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	356.84
	For Each Additional Month >3 Months, Add	57.56
31 41 16 13-0003	TON Shoring For 20' Excavation, 27 PSF Steel Sheeting, Pull And Salvage.....	1,880.15
	For Standard Sheeting Left In Place, Add	947.73
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,362.13
	For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	103.60
	For High Strength Sheeting 55,000 PSI Grade, Add	115.11
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	356.84
	For Each Additional Month >3 Months, Add	57.56
31 41 16 13-0004	TON Shoring For 25' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	2,190.21
	For Standard Sheeting Left In Place, Add	792.70
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,207.10
	For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	103.60
	For High Strength Sheeting 55,000 PSI Grade, Add	115.11
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	356.84
	For Each Additional Month >3 Months, Add	57.56
31 41 16 13-0005	TON Shoring For 30' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	2,488.57
	For Standard Sheeting Left In Place, Add	643.52
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,057.92
	For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	103.60
	For High Strength Sheeting 55,000 PSI Grade, Add	115.11
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	356.84
	For Each Additional Month >3 Months, Add	57.56
31 41 16 13-0006	TON Shoring For 35' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	2,664.09
	For Standard Sheeting Left In Place, Add	555.76
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	970.16
	For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	103.60
	For High Strength Sheeting 55,000 PSI Grade, Add	115.11
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	356.84
	For Each Additional Month >3 Months, Add	57.56
31 41 16 13-0007	TON Shoring For 40' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	2,843.11
	For Standard Sheeting Left In Place, Add	466.25
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	880.65
	For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	103.60
	For High Strength Sheeting 55,000 PSI Grade, Add	115.11
	For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	356.84
	For Each Additional Month >3 Months, Add	57.56

31 45 Vibroflotation And Densification ^(31 40)**31 45 13 Vibroflotation** ^(31 45)

31 45 13 00-0001	LCY Soil Stabilization, Vibroflotation.....	11.58
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31 60 Special Foundations And Load-bearing Elements ⁽³¹⁾**31 62 Driven Piles** ^(31 60)



Earthwork	31	13
Special Foundations And Load-bearing Elements	31 60	
Driven Piles	31 62	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 13 Concrete Piles <small>(31 62)</small>		
31 62 13 23 Prestressed Concrete Piles <small>(31 62 13)</small>		
31 62 13 23-0001 Square Prestressed Driven Concrete Piles <small>(31 62 13 23)</small>		
31 62 13 23-0002 VLF 10" Square Prestressed Driven Concrete Pile.....	24.85	
<i>For Piles Driven In Water, Add</i>	12.45	
31 62 13 23-0003 VLF 12" Square Prestressed Driven Concrete Pile.....	31.07	
<i>For Piles Driven In Water, Add</i>	14.02	
31 62 13 23-0004 VLF 14" Square Prestressed Driven Concrete Pile.....	37.53	
<i>For Piles Driven In Water, Add</i>	15.38	
31 62 13 23-0005 VLF 16" Square Prestressed Driven Concrete Pile.....	45.85	
<i>For Piles Driven In Water, Add</i>	17.05	
31 62 13 23-0006 VLF 18" Square Prestressed Driven Concrete Pile.....	55.51	
<i>For Piles Driven In Water, Add</i>	18.96	
31 62 13 23-0007 VLF 20" Square Prestressed Driven Concrete Pile.....	64.14	
<i>For Piles Driven In Water, Add</i>	20.95	
31 62 13 23-0008 VLF 24" Square Prestressed Driven Concrete Pile.....	81.61	
<i>For Piles Driven In Water, Add</i>	24.02	
31 62 13 23-0009 Octagonal Prestressed Driven Concrete Piles <small>(31 62 13 23)</small>		
31 62 13 23-0010 VLF 12" Octagonal Prestressed Driven Concrete Pile.....	40.93	
<i>For Piles Driven In Water, Add</i>	14.35	
31 62 13 23-0011 VLF 14" Octagonal Prestressed Driven Concrete Pile.....	51.50	
<i>For Piles Driven In Water, Add</i>	16.06	
31 62 13 23-0012 VLF 16" Octagonal Prestressed Driven Concrete Pile.....	62.14	
<i>For Piles Driven In Water, Add</i>	17.84	
31 62 13 23-0013 VLF 18" Octagonal Prestressed Driven Concrete Pile.....	75.38	
<i>For Piles Driven In Water, Add</i>	20.00	
31 62 13 23-0014 VLF 20" Octagonal Prestressed Driven Concrete Pile.....	80.11	
<i>For Piles Driven In Water, Add</i>	21.42	
31 62 13 23-0015 VLF 24" Octagonal Prestressed Driven Concrete Pile.....	85.06	
<i>For Piles Driven In Water, Add</i>	23.04	
31 62 13 23-0016 Straight Cylinder Prestressed Driven Concrete Piles <small>(31 62 13 23)</small>		
31 62 13 23-0017 VLF 12" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	30.71	
<i>For Piles Driven In Water, Add</i>	12.76	
31 62 13 23-0018 VLF 14" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	35.89	
<i>For Piles Driven In Water, Add</i>	13.85	
31 62 13 23-0019 VLF 16" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	42.02	
<i>For Piles Driven In Water, Add</i>	15.11	
31 62 13 23-0020 VLF 18" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	47.25	
<i>For Piles Driven In Water, Add</i>	16.35	
31 62 13 23-0021 VLF 20" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	58.52	
<i>For Piles Driven In Water, Add</i>	18.32	
31 62 13 23-0022 VLF 24" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	71.51	
<i>For Piles Driven In Water, Add</i>	20.56	
31 62 16 Steel Piles <small>(31 62)</small>		
31 62 16 16 Steel H Piles <small>(31 62 16)</small>		
31 62 16 16-0001 Rolled, Driven Steel H Piles <small>(31 62 16 16)</small>		
31 62 16 16-0002 VLF 8" x 8" x 36 LB/FT, Rolled, Driven Steel H Pile.....	45.47	
<i>For Piles Driven In Water, Add</i>	15.46	
31 62 16 16-0003 VLF 10" x 10" x 42 LB/FT, Rolled, Driven Steel H Pile.....	51.62	
<i>For Piles Driven In Water, Add</i>	16.60	
31 62 16 16-0004 VLF 10" x 10" x 57 LB/FT, Rolled, Driven Steel H Pile.....	65.52	
<i>For Piles Driven In Water, Add</i>	17.99	
31 62 16 16-0005 VLF 12" x 12" x 53 LB/FT, Rolled, Driven Steel H Pile.....	62.19	
<i>For Piles Driven In Water, Add</i>	18.00	
31 62 16 16-0006 VLF 12" x 12" x 63 LB/FT, Rolled, Driven Steel H Pile.....	71.46	
<i>For Piles Driven In Water, Add</i>	18.93	
31 62 16 16-0007 VLF 12" x 12" x 74 LB/FT, Rolled, Driven Steel H Pile.....	82.75	
<i>For Piles Driven In Water, Add</i>	21.05	
31 62 16 16-0008 VLF 12" x 12" x 84 LB/FT, Rolled, Driven Steel H Pile.....	92.01	
<i>For Piles Driven In Water, Add</i>	21.97	
31 62 16 16-0009 VLF 14" x 14" x 73 LB/FT, Rolled, Driven Steel H Pile.....	82.16	
<i>For Piles Driven In Water, Add</i>	21.29	
31 62 16 16-0010 VLF 14" x 14" x 89 LB/FT, Rolled, Driven Steel H Pile.....	97.91	
<i>For Piles Driven In Water, Add</i>	22.87	
31 62 16 16-0011 VLF 14" x 14" x 102 LB/FT, Rolled, Driven Steel H Pile.....	110.25	
<i>For Piles Driven In Water, Add</i>	25.20	
31 62 16 16-0012 VLF 14" x 14" x 117 LB/FT, Rolled, Driven Steel H Pile.....	125.07	
<i>For Piles Driven In Water, Add</i>	26.68	
31 62 16 16-0013 Splices, Caps, And Points For H-Piles <small>(31 62 16 16)</small>		
31 62 16 16-0014 Rolled Steel H Pile Splices <small>(31 62 16 16-0013)</small>		

31 Earthwork**31 60 Special Foundations And Load-bearing Elements****31 62 Driven Piles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 16-0015 EA 8" Rolled Steel H Pile Splice	326.84	
31 62 16 16-0016 EA 10" Rolled Steel H Pile Splice	392.64	
31 62 16 16-0017 EA 12" Rolled Steel H Pile Splice	517.05	
31 62 16 16-0018 EA 14" Rolled Steel H Pile Splice	549.95	
31 62 16 16-0019 Rolled Steel H Driving Caps (31 62 16 16-0013)		
31 62 16 16-0020 EA 8" Rolled Steel H Driving Cap	5,361.88	
31 62 16 16-0021 EA 10" Rolled Steel H Driving Cap	5,361.88	
31 62 16 16-0022 EA 12" Rolled Steel H Driving Cap	5,409.91	
31 62 16 16-0023 EA 14" Rolled Steel H Driving Cap	8,206.56	
31 62 16 16-0024 Rolled Steel H Standard Pile Points (31 62 16 16-0013)		
31 62 16 16-0025 EA 8" Rolled Steel H Standard Pile Point	359.74	
31 62 16 16-0026 EA 10" Rolled Steel H Standard Pile Point	392.64	
31 62 16 16-0027 EA 12" Rolled Steel H Standard Pile Point	517.05	
31 62 16 16-0028 EA 14" Rolled Steel H Standard Pile Point	615.76	
31 62 16 16-0029 EA 10" Rolled Steel H Standard Pile Point	517.05	
31 62 16 16-0030 EA 14" Rolled Steel H Standard Pile Point	679.49	
31 62 16 19 Unfilled Tubular Steel Piles (31 62 16)		
31 62 16 19-0001 Unfilled Tubular Driven Steel Piles (31 62 16 19)		
31 62 16 19-0002 VLF 8" Diameter, Unfilled Tubular Driven Steel Pile	36.35	
<i>For Piles Driven In Water, Add</i>	17.59	
31 62 16 19-0003 VLF 10" Diameter, Unfilled Tubular Driven Steel Pile	41.57	
<i>For Piles Driven In Water, Add</i>	18.12	
31 62 16 19-0004 VLF 12" Diameter, Unfilled Tubular Driven Steel Pile	48.51	
<i>For Piles Driven In Water, Add</i>	19.54	
31 62 16 19-0005 VLF 14" Diameter, Unfilled Tubular Driven Steel Pile	52.54	
<i>For Piles Driven In Water, Add</i>	21.48	
31 62 16 19-0006 VLF 16" Diameter, Unfilled Tubular Driven Steel Pile	58.47	
<i>For Piles Driven In Water, Add</i>	23.97	
31 62 16 19-0007 VLF 18" Diameter, Unfilled Tubular Driven Steel Pile	71.63	
<i>For Piles Driven In Water, Add</i>	26.81	
31 62 16 19-0008 Splices And Points For Pipe Piles (31 62 16 19)		
31 62 16 19-0009 Steel Pipe Pile Splices (31 62 16 19-0008)		
31 62 16 19-0010 EA 8" Diameter, Steel Pipe Pile Splice	230.09	
31 62 16 19-0011 EA 10" Diameter, Steel Pipe Pile Splice	246.64	
31 62 16 19-0012 EA 12" Diameter, Steel Pipe Pile Splice	321.33	
31 62 16 19-0013 EA 14" Diameter, Steel Pipe Pile Splice	337.66	
31 62 16 19-0014 EA 16" Diameter, Steel Pipe Pile Splice	407.16	
31 62 16 19-0015 EA 18" Diameter, Steel Pipe Pile Splice	490.65	
31 62 16 19-0016 Steel Pipe Standard Pile Points (31 62 16 19-0008)		
31 62 16 19-0017 EA 8" Diameter, Steel Pipe Standard Pile Point	229.48	
31 62 16 19-0018 EA 10" Diameter, Steel Pipe Standard Pile Point	242.73	
31 62 16 19-0019 EA 12" Diameter, Steel Pipe Standard Pile Point	274.76	
31 62 16 19-0020 EA 14" Diameter, Steel Pipe Standard Pile Point	311.21	
31 62 16 19-0021 EA 16" Diameter, Steel Pipe Standard Pile Point	344.35	
31 62 16 19-0022 EA 18" Diameter, Steel Pipe Standard Pile Point	397.38	
31 62 16 19-0023 Steel Pipe Heavy Duty Pile Points (31 62 16 19-0008)		
31 62 16 19-0024 EA 10" Diameter, Steel Pipe Heavy Duty Pile Point	336.15	
31 62 16 19-0025 EA 12" Diameter, Steel Pipe Heavy Duty Pile Point	352.72	
31 62 16 19-0026 EA 14" Diameter, Steel Pipe Heavy Duty Pile Point	395.40	
31 62 16 19-0027 EA 16" Diameter, Steel Pipe Heavy Duty Pile Point	461.67	
31 62 16 19-0028 EA 18" Diameter, Steel Pipe Heavy Duty Pile Point	520.78	
31 62 19 Timber Piles (31 62)		
31 62 19 00-0001 Friction Or End Bearing, Driven Treated Wood Piles (31 62 19)		
Note: 12 LB Penta-treated/CF.		
31 62 19 00-0002 LF Up To 30', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile	27.09	
<i>For Piles Driven In Water, Add</i>	12.40	
<i>For Untreated Pile, Deduct</i>	-6.04	
<i>For Each Pile Tip Point, Add</i>	12.50	
<i>For Each Pile Butt, Driving Cap, Add</i>	20.10	
<i>For Each Splice For Pile >50', Add</i>	139.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 19 00-0003 LF >30' To 39', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile	28.61	
<i>For Piles Driven In Water, Add</i>	13.77	
<i>For Untreated Pile, Deduct</i>	-6.10	
<i>For Each Pile Tip Point, Add</i>	12.50	
<i>For Each Pile Butt, Driving Cap, Add</i>	20.10	
<i>For Each Splice For Pile >50', Add</i>	139.40	
31 62 19 00-0004 LF 39' To 49', 12" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	30.17	
<i>For Piles Driven In Water, Add</i>	14.65	
<i>For Untreated Pile, Deduct</i>	-6.38	
<i>For Each Pile Tip Point, Add</i>	12.50	
<i>For Each Pile Butt, Driving Cap, Add</i>	20.10	
<i>For Each Splice For Pile >50', Add</i>	139.40	
31 62 19 00-0005 LF >49' To 59', 13" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	32.55	
<i>For Piles Driven In Water, Add</i>	16.33	
<i>For Untreated Pile, Deduct</i>	-6.67	
<i>For Each Pile Tip Point, Add</i>	12.50	
<i>For Each Pile Butt, Driving Cap, Add</i>	20.10	
<i>For Each Splice For Pile >50', Add</i>	139.40	
31 62 19 00-0006 LF >59' To 69', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	40.26	
<i>For Piles Driven In Water, Add</i>	18.56	
<i>For Untreated Pile, Deduct</i>	-8.92	
<i>For Each Pile Tip Point, Add</i>	12.50	
<i>For Each Pile Butt, Driving Cap, Add</i>	20.10	
<i>For Each Splice For Pile >50', Add</i>	139.40	
31 62 19 00-0007 LF >69' To 79', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	50.22	
<i>For Piles Driven In Water, Add</i>	22.46	
<i>For Untreated Pile, Deduct</i>	-11.41	
<i>For Each Pile Tip Point, Add</i>	12.50	
<i>For Each Pile Butt, Driving Cap, Add</i>	20.10	
<i>For Each Splice For Pile >50', Add</i>	139.40	
31 62 23 Composite Piles <small>(31 62)</small>		
31 62 23 13 Concrete-Filled Steel Piles <small>(31 62 23)</small>		
31 62 23 13-0001 Concrete-Filled Driven Steel Pipe Piles <small>(31 62 23 13)</small>		
Note: Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0002 VLF 8" Diameter x 29 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	39.57	
<i>For Piles Driven In Water, Add</i>	19.12	
31 62 23 13-0003 VLF 10" Diameter x 34 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	46.26	
<i>For Piles Driven In Water, Add</i>	20.13	
31 62 23 13-0004 VLF 12" Diameter x 42 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	55.13	
<i>For Piles Driven In Water, Add</i>	22.33	
31 62 23 13-0005 VLF 14" Diameter x 46 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	61.41	
<i>For Piles Driven In Water, Add</i>	25.79	
31 62 23 13-0006 VLF 16" Diameter x 52 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	68.17	
<i>For Piles Driven In Water, Add</i>	27.64	
31 62 23 13-0007 VLF 18" Diameter x 59 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	83.36	
<i>For Piles Driven In Water, Add</i>	30.85	
31 62 23 13-0008 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Piles <small>(31 62 23 13)</small>		
Note: End bearing, with fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0009 VLF 12" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile.....	48.81	
<i>For Piles Driven In Water, Add</i>	16.51	
31 62 23 13-0010 VLF 14" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile.....	58.92	
<i>For Piles Driven In Water, Add</i>	18.36	
31 62 23 13-0011 VLF 16" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile.....	66.55	
<i>For Piles Driven In Water, Add</i>	20.07	
31 62 23 13-0012 VLF 18" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile.....	72.39	
<i>For Piles Driven In Water, Add</i>	21.77	
31 62 23 13-0013 Tapered Friction Concrete-Filled Driven Steel Piles <small>(31 62 23 13)</small>		
Note: With fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0014 VLF 12" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile.....	47.92	
<i>For Piles Driven In Water, Add</i>	16.42	
31 62 23 13-0015 VLF 14" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile.....	49.29	
<i>For Piles Driven In Water, Add</i>	17.39	
31 62 23 13-0016 VLF 16" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile.....	59.80	
<i>For Piles Driven In Water, Add</i>	19.39	
31 62 23 13-0017 VLF 18" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile.....	68.82	
<i>For Piles Driven In Water, Add</i>	21.42	
31 62 23 13-0018 Thin Wall Shell Straight Sided Driven Steel Piles <small>(31 62 23 13)</small>		
31 62 23 13-0019 VLF 8" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	29.34	
<i>For Piles Driven In Water, Add</i>	12.74	
<i>For Thick Wall Shell, Add</i>	0.05	
31 62 23 13-0020 VLF 10" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	32.41	
<i>For Piles Driven In Water, Add</i>	14.15	
<i>For Thick Wall Shell, Add</i>	0.05	

31 Earthwork**31 60 Special Foundations And Load-bearing Elements****31 62 Driven Piles**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	31 62 23 13-0021	VLF	12" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	35.44	
			<i>For Piles Driven In Water, Add</i>	15.53	
			<i>For Thick Wall Shell, Add</i>	0.06	
	31 62 23 13-0022	VLF	14" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	38.50	
			<i>For Piles Driven In Water, Add</i>	16.93	
			<i>For Thick Wall Shell, Add</i>	0.06	
	31 62 23 13-0023	VLF	16" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	41.57	
			<i>For Piles Driven In Water, Add</i>	18.33	
			<i>For Thick Wall Shell, Add</i>	0.06	

31 63 Bored Piles (31 60)**31 63 36 Drilled Steel Piles** (31 63)**31 63 36 00-0001 Drill Hole** (31 63 36)

Note: Excludes removal of excess material.

31 63 36 00-0002 Drilling Mobilization (31 63 36 00-0001)

31 63 36 00-0003	EA	>12" To 24" Diameter Hole, Drilling Mobilization	731.69
31 63 36 00-0004	EA	>24" Diameter Hole, Drilling Mobilization.....	975.58

31 63 36 00-0005 Drill Hole In Soil (31 63 36 00-0001)

31 63 36 00-0006	LF	18" Diameter, Up To 24' Depth, Drilled/Augered Hole	42.24
31 63 36 00-0007	LF	20" Diameter, Up To 24' Depth, Drilled/Augered Hole	49.13
31 63 36 00-0008	LF	22" Diameter, Up To 24' Depth, Drilled/Augered Hole	57.72
31 63 36 00-0009	LF	24" Diameter, Up To 24' Depth, Drilled/Augered Hole	68.03
31 63 36 00-0010	LF	26" Diameter, Up To 24' Depth, Drilled/Augered Hole	73.54
31 63 36 00-0011	LF	28" Diameter, Up To 24' Depth, Drilled/Augered Hole	80.91
31 63 36 00-0012	LF	30" Diameter, Up To 24' Depth, Drilled/Augered Hole	88.62

31 63 36 00-0013 Steel H Piles (31 63 36)**31 63 36 00-0014 Placed In Drilled Hole, Rolled Steel H-Section Piles** (31 63 36 00-0013)

Note: Includes guides, bracing and alignment.

31 63 36 00-0015	VLF	8" x 8" x 36 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	43.70
		<i>For >2,400 To 3,600, Deduct</i>	-1.35
		<i>For >3,600 To 4,800, Deduct</i>	-2.70
		<i>For >4,800 To 6,000, Deduct</i>	-4.89
		<i>For >6,000, Deduct</i>	-7.07
31 63 36 00-0016	VLF	10" x 10" x 42 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	49.78
		<i>For >2,400 To 3,600, Deduct</i>	-1.52
		<i>For >3,600 To 4,800, Deduct</i>	-3.03
		<i>For >4,800 To 6,000, Deduct</i>	-5.52
		<i>For >6,000, Deduct</i>	-8.01
31 63 36 00-0017	VLF	10" x 10" x 57 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	63.68
		<i>For >2,400 To 3,600, Deduct</i>	-1.86
		<i>For >3,600 To 4,800, Deduct</i>	-3.73
		<i>For >4,800 To 6,000, Deduct</i>	-6.91
		<i>For >6,000, Deduct</i>	-10.10
31 63 36 00-0018	VLF	12" x 12" x 53 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	60.29
		<i>For >2,400 To 3,600, Deduct</i>	-1.79
		<i>For >3,600 To 4,800, Deduct</i>	-3.57
		<i>For >4,800 To 6,000, Deduct</i>	-6.59
		<i>For >6,000, Deduct</i>	-9.60
31 63 36 00-0019	VLF	12" x 12" x 63 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	69.56
		<i>For >2,400 To 3,600, Deduct</i>	-2.02
		<i>For >3,600 To 4,800, Deduct</i>	-4.04
		<i>For >4,800 To 6,000, Deduct</i>	-7.52
		<i>For >6,000, Deduct</i>	-10.99
31 63 36 00-0020	VLF	12" x 12" x 74 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	80.69
		<i>For >2,400 To 3,600, Deduct</i>	-2.32
		<i>For >3,600 To 4,800, Deduct</i>	-4.64
		<i>For >4,800 To 6,000, Deduct</i>	-8.68
		<i>For >6,000, Deduct</i>	-12.71
31 63 36 00-0021	VLF	12" x 12" x 84 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	89.95
		<i>For >2,400 To 3,600, Deduct</i>	-2.55
		<i>For >3,600 To 4,800, Deduct</i>	-5.10
		<i>For >4,800 To 6,000, Deduct</i>	-9.60
		<i>For >6,000, Deduct</i>	-14.10
31 63 36 00-0022	VLF	14" x 14" x 73 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	80.06
		<i>For >2,400 To 3,600, Deduct</i>	-2.31
		<i>For >3,600 To 4,800, Deduct</i>	-4.62
		<i>For >4,800 To 6,000, Deduct</i>	-8.63
		<i>For >6,000, Deduct</i>	-12.63
31 63 36 00-0023	VLF	14" x 14" x 89 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	95.81
		<i>For >2,400 To 3,600, Deduct</i>	-2.71
		<i>For >3,600 To 4,800, Deduct</i>	-5.41
		<i>For >4,800 To 6,000, Deduct</i>	-10.20
		<i>For >6,000, Deduct</i>	-14.99



Earthwork	31	
Special Foundations And Load-bearing Elements	31 60	15
Bored Piles	31 63	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0024 VLF 14" x 14" x 102 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	107.96	
For >2,400 To 3,600, Deduct	-3.04	
For >3,600 To 4,800, Deduct	-6.07	
For >4,800 To 6,000, Deduct	-11.47	
For >6,000, Deduct	-16.87	
31 63 36 00-0025 VLF 14" x 14" x 117 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	122.78	
For >2,400 To 3,600, Deduct	-3.41	
For >3,600 To 4,800, Deduct	-6.81	
For >4,800 To 6,000, Deduct	-12.95	
For >6,000, Deduct	-19.09	
31 63 36 00-0026 Welded Steel Stud Pins (31 63 36 00-0013)		
Note: Includes welding to steel piles.		
31 63 36 00-0027 EA 5/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins.....	11.04	
For >50 To 150, Deduct	-0.50	
For >150 To 250, Deduct	-1.02	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-2.07	
31 63 36 00-0028 EA 5/8" Diameter x 5" Long, Welded Steel Stud Pins.....	12.14	
For >50 To 150, Deduct	-0.50	
For >150 To 250, Deduct	-1.05	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-2.16	
31 63 36 00-0029 EA 5/8" Diameter x 7" Long, Welded Steel Stud Pins.....	13.20	
For >50 To 150, Deduct	-0.50	
For >150 To 250, Deduct	-1.08	
For >250 To 500, Deduct	-1.66	
For >500, Deduct	-2.24	
31 63 36 00-0030 EA 3/4" Diameter x 2-1/2" Long, Welded Steel Stud Pins.....	12.20	
For >50 To 150, Deduct	-0.52	
For >150 To 250, Deduct	-1.09	
For >250 To 500, Deduct	-1.66	
For >500, Deduct	-2.22	
31 63 36 00-0031 EA 3/4" Diameter x 5" Long, Welded Steel Stud Pins.....	13.86	
For >50 To 150, Deduct	-0.52	
For >150 To 250, Deduct	-1.13	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.35	
31 63 36 00-0032 EA 3/4" Diameter x 7" Long, Welded Steel Stud Pins.....	15.02	
For >50 To 150, Deduct	-0.52	
For >150 To 250, Deduct	-1.16	
For >250 To 500, Deduct	-1.80	
For >500, Deduct	-2.44	
31 63 36 00-0033 EA 7/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins.....	13.61	
For >50 To 150, Deduct	-0.55	
For >150 To 250, Deduct	-1.16	
For >250 To 500, Deduct	-1.77	
For >500, Deduct	-2.38	
31 63 36 00-0034 EA 7/8" Diameter x 5" Long, Welded Steel Stud Pins.....	16.32	
For >50 To 150, Deduct	-0.55	
For >150 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.59	
31 63 36 00-0035 EA 7/8" Diameter x 7" Long, Welded Steel Stud Pins.....	17.65	
For >50 To 150, Deduct	-0.55	
For >150 To 250, Deduct	-1.26	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.69	
31 63 36 00-0036 Concrete Fill (31 63 36)		
See CSI section 03 37 16 00-0001 for pumping equipment.		
31 63 36 00-0037 VLF 18" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	37.31	
31 63 36 00-0038 VLF 20" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	41.45	
31 63 36 00-0039 VLF 22" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	45.59	
31 63 36 00-0040 VLF 24" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	49.74	
31 63 36 00-0041 VLF 26" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	53.87	
31 63 36 00-0042 VLF 28" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	58.03	
31 63 36 00-0043 VLF 30" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	67.69	
31 64 Caissons (31 60)		
31 64 13 Box Caissons (31 64)		
31 64 13 00-0001 Caisson In Stable Ground No Casing Or Ground Water (31 64 13)		
Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0002 Caisson In Stable Ground (31 64 13 00-0001)		
Note: Includes 3000 PSI concrete and reinforcing.		

31 Earthwork**31 60 Special Foundations And Load-bearing Elements****31 64 Caissons**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0003	VLF	18" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.	50.98	
		<i>For >50' To 100' Deep, Add</i>	5.29	
		<i>For >100' To 150' Deep, Add</i>	12.75	
		<i>For >150' To 200' Deep, Add</i>	17.44	
		<i>For Right Angle Drilling, Add</i>	12.48	
		<i>For >3 To 9, Deduct</i>	-1.61	
		<i>For >9, Deduct</i>	-3.33	
31 64 13 00-0004	VLF	24" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.	66.11	
		<i>For >50' To 100' Deep, Add</i>	7.46	
		<i>For >100' To 150' Deep, Add</i>	16.53	
		<i>For >150' To 200' Deep, Add</i>	23.38	
		<i>For Right Angle Drilling, Add</i>	14.28	
		<i>For >3 To 9, Deduct</i>	-2.66	
		<i>For >9, Deduct</i>	-5.49	
31 64 13 00-0005	VLF	30" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.	95.60	
		<i>For >50' To 100' Deep, Add</i>	11.24	
		<i>For >100' To 150' Deep, Add</i>	23.90	
		<i>For >150' To 200' Deep, Add</i>	34.36	
		<i>For Right Angle Drilling, Add</i>	19.26	
		<i>For >3 To 9, Deduct</i>	-4.26	
		<i>For >9, Deduct</i>	-8.80	
31 64 13 00-0006	VLF	36" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.	128.24	
		<i>For >50' To 100' Deep, Add</i>	15.51	
		<i>For >100' To 150' Deep, Add</i>	32.06	
		<i>For >150' To 200' Deep, Add</i>	46.64	
		<i>For Right Angle Drilling, Add</i>	24.48	
		<i>For >3 To 9, Deduct</i>	-6.12	
		<i>For >9, Deduct</i>	-12.65	
31 64 13 00-0007	VLF	42" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.	167.82	
		<i>For >50' To 100' Deep, Add</i>	20.95	
		<i>For >100' To 150' Deep, Add</i>	41.96	
		<i>For >150' To 200' Deep, Add</i>	61.86	
		<i>For Right Angle Drilling, Add</i>	29.96	
		<i>For >3 To 9, Deduct</i>	-8.63	
		<i>For >9, Deduct</i>	-17.84	
31 64 13 00-0008	VLF	48" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.	202.01	
		<i>For >50' To 100' Deep, Add</i>	25.58	
		<i>For >100' To 150' Deep, Add</i>	50.50	
		<i>For >150' To 200' Deep, Add</i>	74.90	
		<i>For Right Angle Drilling, Add</i>	34.97	
		<i>For >3 To 9, Deduct</i>	-10.72	
		<i>For >9, Deduct</i>	-22.16	
31 64 13 00-0009	VLF	54" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.	248.25	
		<i>For >50' To 100' Deep, Add</i>	32.25	
		<i>For >100' To 150' Deep, Add</i>	62.06	
		<i>For >150' To 200' Deep, Add</i>	93.07	
		<i>For Right Angle Drilling, Add</i>	40.41	
		<i>For >3 To 9, Deduct</i>	-13.94	
		<i>For >9, Deduct</i>	-28.82	
31 64 13 00-0010	VLF	60" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.	294.27	
		<i>For >50' To 100' Deep, Add</i>	38.89	
		<i>For >100' To 150' Deep, Add</i>	73.57	
		<i>For >150' To 200' Deep, Add</i>	111.15	
		<i>For Right Angle Drilling, Add</i>	45.83	
		<i>For >3 To 9, Deduct</i>	-17.15	
		<i>For >9, Deduct</i>	-35.44	
31 64 13 00-0011	VLF	66" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.	346.37	
		<i>For >50' To 100' Deep, Add</i>	46.38	
		<i>For >100' To 150' Deep, Add</i>	86.59	
		<i>For >150' To 200' Deep, Add</i>	131.58	
		<i>For Right Angle Drilling, Add</i>	52.06	
		<i>For >3 To 9, Deduct</i>	-20.75	
		<i>For >9, Deduct</i>	-42.88	
31 64 13 00-0012	VLF	72" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	407.35	
		<i>For >50' To 100' Deep, Add</i>	55.20	
		<i>For >100' To 150' Deep, Add</i>	101.84	
		<i>For >150' To 200' Deep, Add</i>	155.56	
		<i>For Right Angle Drilling, Add</i>	59.19	
		<i>For >3 To 9, Deduct</i>	-25.01	
		<i>For >9, Deduct</i>	-51.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0013 VLF 78" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.	467.92	
For >50' To 100' Deep, Add	64.07	
For >100' To 150' Deep, Add	116.98	
For >150' To 200' Deep, Add	179.52	
For Right Angle Drilling, Add	65.91	
For >3 To 9, Deduct	-29.36	
For >9, Deduct	-60.68	
31 64 13 00-0014 VLF 84" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.	532.73	
For >50' To 100' Deep, Add	73.61	
For >100' To 150' Deep, Add	133.18	
For >150' To 200' Deep, Add	205.22	
For Right Angle Drilling, Add	72.96	
For >3 To 9, Deduct	-34.05	
For >9, Deduct	-70.37	
31 64 13 00-0015 For Bell Excavation And Concrete, Add <small>(31 64 13 00-0001)</small>		
31 64 13 00-0016 EA Bell Excavation And Concrete, 4' Bell Diameter Stable Ground, 24" Shaft, 0.44 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	349.68	
For >50' To 100' Deep, Add	28.83	
For >100' To 150' Deep, Add	87.42	
For >150' To 200' Deep, Add	110.35	
For >3 To 9, Deduct	-4.08	
For >9, Deduct	-8.43	
31 64 13 00-0017 EA Bell Excavation And Concrete, 6' Bell Diameter Stable Ground, 30" Shaft, 1.57 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	1,229.50	
For >50' To 100' Deep, Add	101.54	
For >100' To 150' Deep, Add	307.38	
For >150' To 200' Deep, Add	388.20	
For >3 To 9, Deduct	-14.51	
For >9, Deduct	-29.99	
31 64 13 00-0018 EA Bell Excavation And Concrete, 7' Bell Diameter Stable Ground, 36" Shaft, 2.33 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	1,862.98	
For >50' To 100' Deep, Add	156.45	
For >100' To 150' Deep, Add	465.75	
For >150' To 200' Deep, Add	591.44	
For >3 To 9, Deduct	-24.41	
For >9, Deduct	-50.45	
31 64 13 00-0019 EA Bell Excavation And Concrete, 8' Bell Diameter Stable Ground, 42" Shaft, 3.30 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	2,586.58	
For >50' To 100' Deep, Add	217.66	
For >100' To 150' Deep, Add	646.65	
For >150' To 200' Deep, Add	821.72	
For >3 To 9, Deduct	-34.31	
For >9, Deduct	-70.91	
31 64 13 00-0020 EA Bell Excavation And Concrete, 9' Bell Diameter Stable Ground, 48" Shaft, 4.48 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	3,502.88	
For >50' To 100' Deep, Add	289.22	
For >100' To 150' Deep, Add	875.72	
For >150' To 200' Deep, Add	1,105.88	
For >3 To 9, Deduct	-41.26	
For >9, Deduct	-85.28	
31 64 13 00-0021 EA Bell Excavation And Concrete, 10' Bell Diameter Stable Ground, 60" Shaft, 5.24 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	4,118.66	
For >50' To 100' Deep, Add	339.90	
For >100' To 150' Deep, Add	1,029.67	
For >150' To 200' Deep, Add	1,300.09	
For >3 To 9, Deduct	-48.37	
For >9, Deduct	-99.96	
31 64 13 00-0022 EA Bell Excavation And Concrete, 12' Bell Diameter Stable Ground, 72" Shaft, 8.74 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	6,983.58	
For >50' To 100' Deep, Add	575.11	
For >100' To 150' Deep, Add	1,745.90	
For >150' To 200' Deep, Add	2,202.89	
For >3 To 9, Deduct	-80.86	
For >9, Deduct	-167.12	
31 64 13 00-0023 EA Bell Excavation And Concrete, 14' Bell Diameter Stable Ground, 84" Shaft, 13.6 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	10,108.99	
For >50' To 100' Deep, Add	841.45	
For >100' To 150' Deep, Add	2,527.25	
For >150' To 200' Deep, Add	3,199.97	
For >3 To 9, Deduct	-125.45	
For >9, Deduct	-259.27	
31 64 13 00-0024 Caisson In Wet Ground, Casing Pulled <small>(31 64 13)</small> Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0025 Caisson In Wet Ground <small>(31 64 13 00-0024)</small> Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0026 VLF 18" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.	55.75	
For >50' To 100' Deep, Add	5.61	
For >100' To 150' Deep, Add	13.94	
For >150' To 200' Deep, Add	18.86	
For Right Angle Drilling, Add	14.17	
For >3 To 9, Deduct	-1.60	
For >9, Deduct	-3.31	

31 Earthwork**31 60 Special Foundations And Load-bearing Elements****31 64 Caissons**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0027	VLF	24" Diameter Caisson Wet Ground, Casing Pulled.....	92.72	
		Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	9.32	
		For >100' To 150' Deep, Add	23.18	
		For >150' To 200' Deep, Add	31.36	
		For Right Angle Drilling, Add	23.60	
		For >3 To 9, Deduct	-2.66	
		For >9, Deduct	-5.49	
31 64 13 00-0028	VLF	30" Diameter Caisson Wet Ground, Casing Pulled.....	125.55	
		Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	13.33	
		For >100' To 150' Deep, Add	31.39	
		For >150' To 200' Deep, Add	43.34	
		For Right Angle Drilling, Add	29.75	
		For >3 To 9, Deduct	-4.26	
		For >9, Deduct	-8.80	
31 64 13 00-0029	VLF	36" Diameter Caisson Wet Ground, Casing Pulled.....	173.31	
		Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	18.66	
		For >100' To 150' Deep, Add	43.33	
		For >150' To 200' Deep, Add	60.16	
		For Right Angle Drilling, Add	40.25	
		For >3 To 9, Deduct	-6.12	
		For >9, Deduct	-12.65	
31 64 13 00-0030	VLF	42" Diameter Caisson Wet Ground, Casing Pulled.....	223.45	
		Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	24.85	
		For >100' To 150' Deep, Add	55.86	
		For >150' To 200' Deep, Add	78.54	
		For Right Angle Drilling, Add	49.44	
		For >3 To 9, Deduct	-8.63	
		For >9, Deduct	-17.84	
31 64 13 00-0031	VLF	48" Diameter Caisson Wet Ground, Casing Pulled.....	267.97	
		Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	30.19	
		For >100' To 150' Deep, Add	66.99	
		For >150' To 200' Deep, Add	94.69	
		For Right Angle Drilling, Add	58.05	
		For >3 To 9, Deduct	-10.72	
		For >9, Deduct	-22.16	
31 64 13 00-0032	VLF	54" Diameter Caisson Wet Ground, Casing Pulled.....	347.08	
		Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	39.17	
		For >100' To 150' Deep, Add	86.77	
		For >150' To 200' Deep, Add	122.72	
		For Right Angle Drilling, Add	75.00	
		For >3 To 9, Deduct	-13.94	
		For >9, Deduct	-28.82	
31 64 13 00-0033	VLF	60" Diameter Caisson Wet Ground, Casing Pulled.....	425.11	
		Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	48.05	
		For >100' To 150' Deep, Add	106.28	
		For >150' To 200' Deep, Add	150.40	
		For Right Angle Drilling, Add	91.63	
		For >3 To 9, Deduct	-17.15	
		For >9, Deduct	-35.44	
31 64 13 00-0034	VLF	66" Diameter Caisson Wet Ground, Casing Pulled.....	489.49	
		Note: 0.87 CY Concrete per VLF, 113 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	56.40	
		For >100' To 150' Deep, Add	122.37	
		For >150' To 200' Deep, Add	174.51	
		For Right Angle Drilling, Add	102.16	
		For >3 To 9, Deduct	-20.75	
		For >9, Deduct	-42.88	
31 64 13 00-0035	VLF	72" Diameter Caisson Wet Ground, Casing Pulled.....	562.74	
		Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	66.07	
		For >100' To 150' Deep, Add	140.69	
		For >150' To 200' Deep, Add	202.18	
		For Right Angle Drilling, Add	113.58	
		For >3 To 9, Deduct	-25.01	
		For >9, Deduct	-51.70	
31 64 13 00-0036	VLF	78" Diameter Caisson Wet Ground, Casing Pulled.....	643.58	
		Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	76.37	
		For >100' To 150' Deep, Add	160.90	
		For >150' To 200' Deep, Add	232.22	
		For Right Angle Drilling, Add	127.39	
		For >3 To 9, Deduct	-29.36	
		For >9, Deduct	-60.68	



Earthwork	31	15
Special Foundations And Load-bearing Elements	31 60	
Caissons	31 64	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0037 VLF 84" Diameter Caisson Wet Ground, Casing Pulled.....	729.03	
Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
For >50' To 100' Deep, Add	87.35	
For >100' To 150' Deep, Add	182.26	
For >150' To 200' Deep, Add	264.11	
For Right Angle Drilling, Add	141.66	
For >3 To 9, Deduct	-34.05	
For >9, Deduct	-70.37	
31 64 13 00-0038 For Bell Excavation And Concrete, Add <small>(31 64 13 00-0024)</small>		
31 64 13 00-0039 EA Bell Excavation And Concrete, 4' Bell Diameter Wet Ground 24" Shaft, 0.44 CY.....	401.68	
For >50' To 100' Deep, Add	32.47	
For >100' To 150' Deep, Add	100.42	
For >150' To 200' Deep, Add	125.95	
For >3 To 9, Deduct	-4.08	
For >9, Deduct	-8.43	
31 64 13 00-0040 EA Bell Excavation And Concrete, 6' Bell Diameter Wet Ground, 30" Shaft, 1.57 CY.....	1,399.79	
For >50' To 100' Deep, Add	113.46	
For >100' To 150' Deep, Add	349.95	
For >150' To 200' Deep, Add	439.28	
For >3 To 9, Deduct	-14.51	
For >9, Deduct	-29.99	
31 64 13 00-0041 EA Bell Excavation And Concrete, 7' Bell Diameter Wet Ground, 36" Shaft, 2.33 CY.....	1,909.74	
For >50' To 100' Deep, Add	143.60	
For >100' To 150' Deep, Add	477.44	
For >150' To 200' Deep, Add	585.32	
For >3 To 9, Deduct	-9.30	
For >9, Deduct	-19.21	
31 64 13 00-0042 EA Bell Excavation And Concrete, 8' Bell Diameter Wet Ground, 42" Shaft, 3.3 CY.....	3,078.48	
For >50' To 100' Deep, Add	252.09	
For >100' To 150' Deep, Add	769.62	
For >150' To 200' Deep, Add	969.29	
For >3 To 9, Deduct	-34.31	
For >9, Deduct	-70.91	
31 64 13 00-0043 EA Bell Excavation And Concrete, 9' Bell Diameter Wet Ground, 48" Shaft, 4.48 CY.....	3,988.19	
For >50' To 100' Deep, Add	323.19	
For >100' To 150' Deep, Add	997.05	
For >150' To 200' Deep, Add	1,251.48	
For >3 To 9, Deduct	-41.26	
For >9, Deduct	-85.28	
31 64 13 00-0044 EA Bell Excavation And Concrete, 10' Bell Diameter Wet Ground, 60" Shaft, 5.24 CY.....	4,689.62	
For >50' To 100' Deep, Add	379.87	
For >100' To 150' Deep, Add	1,172.41	
For >150' To 200' Deep, Add	1,471.38	
For >3 To 9, Deduct	-48.37	
For >9, Deduct	-99.96	
31 64 13 00-0045 EA Bell Excavation And Concrete, 12' Bell Diameter Wet Ground, 72" Shaft, 8.74 CY.....	7,954.20	
For >50' To 100' Deep, Add	643.05	
For >100' To 150' Deep, Add	1,988.55	
For >150' To 200' Deep, Add	2,494.08	
For >3 To 9, Deduct	-80.86	
For >9, Deduct	-167.12	
31 64 13 00-0046 EA Bell Excavation And Concrete, 14' Bell Diameter Wet Ground, 84" Shaft, 13.6 CY.....	11,495.59	
For >50' To 100' Deep, Add	938.51	
For >100' To 150' Deep, Add	2,873.90	
For >150' To 200' Deep, Add	3,615.95	
For >3 To 9, Deduct	-125.45	
For >9, Deduct	-259.27	
31 64 13 00-0047 Caisson In Soft Rock And Medium Hard Shale <small>(31 64 13)</small>		
Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0048 Caisson In Soft Rock <small>(31 64 13 00-0047)</small>		
Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0049 VLF 18" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	197.69	
Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
For Right Angle Drilling, Add	63.85	
For >3 To 9, Deduct	-1.60	
For >9, Deduct	-3.31	
31 64 13 00-0050 VLF 24" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	329.32	
Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
For Right Angle Drilling, Add	106.41	
For >3 To 9, Deduct	-2.66	
For >9, Deduct	-5.49	
31 64 13 00-0051 VLF 30" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	497.59	
Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
For Right Angle Drilling, Add	159.96	
For >3 To 9, Deduct	-4.26	
For >9, Deduct	-8.80	
31 64 13 00-0052 VLF 36" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	638.42	
Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
For Right Angle Drilling, Add	203.04	
For >3 To 9, Deduct	-6.12	
For >9, Deduct	-12.65	

31 Earthwork**31 60 Special Foundations And Load-bearing Elements****31 64 Caissons**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0053	VLF		42" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....824.18 Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	66.90	
			<i>For >100' To 150' Deep, Add</i>	206.05	
			<i>For >150' To 200' Deep, Add</i>	258.76	
			<i>For Right Angle Drilling, Add</i>	259.69	
			<i>For >3 To 9, Deduct</i>	-8.63	
			<i>For >9, Deduct</i>	-17.84	
31 64 13 00-0054	VLF		48" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....993.86 Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
			<i>For Right Angle Drilling, Add</i>	312.11	
			<i>For >3 To 9, Deduct</i>	-10.72	
			<i>For >9, Deduct</i>	-22.16	
31 64 13 00-0055	VLF		54" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....1,219.47 Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	100.24	
			<i>For >100' To 150' Deep, Add</i>	304.87	
			<i>For >150' To 200' Deep, Add</i>	384.43	
			<i>For Right Angle Drilling, Add</i>	380.33	
			<i>For >3 To 9, Deduct</i>	-13.94	
			<i>For >9, Deduct</i>	-28.82	
31 64 13 00-0056	VLF		60" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....1,444.20 Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
			<i>For Right Angle Drilling, Add</i>	448.31	
			<i>For >3 To 9, Deduct</i>	-17.15	
			<i>For >9, Deduct</i>	-35.44	
31 64 13 00-0057	VLF		66" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....1,593.86 Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	133.70	
			<i>For >100' To 150' Deep, Add</i>	398.47	
			<i>For >150' To 200' Deep, Add</i>	505.83	
			<i>For Right Angle Drilling, Add</i>	488.68	
			<i>For >3 To 9, Deduct</i>	-20.75	
			<i>For >9, Deduct</i>	-42.89	
31 64 13 00-0058	VLF		72" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....1,751.71 Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
			<i>For Right Angle Drilling, Add</i>	529.72	
			<i>For >3 To 9, Deduct</i>	-25.01	
			<i>For >9, Deduct</i>	-51.70	
31 64 13 00-0059	VLF		78" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....1,809.64 Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	157.99	
			<i>For >100' To 150' Deep, Add</i>	452.41	
			<i>For >150' To 200' Deep, Add</i>	582.04	
			<i>For Right Angle Drilling, Add</i>	535.51	
			<i>For >3 To 9, Deduct</i>	-29.36	
			<i>For >9, Deduct</i>	-60.68	
31 64 13 00-0060	VLF		84" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....2,156.88 Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
			<i>For Right Angle Drilling, Add</i>	641.41	
			<i>For >3 To 9, Deduct</i>	-34.05	
			<i>For >9, Deduct</i>	-70.37	
31 64 13 00-0061			For Bell Excavation And Concrete, Add <small>(31 64 13 00-0047)</small>		
31 64 13 00-0062	EA		Bell Excavation And Concrete, 4' Bell Diameter Soft Rock/Shale 24" Shaft 0.44 CY .....685.24		
			<i>For >3 To 9, Deduct</i>	-4.08	
			<i>For >9, Deduct</i>	-8.43	
31 64 13 00-0063	EA		Bell Excavation And Concrete, 6' Bell Diameter Soft Rock/Shale 30" Shaft 1.57 CY .....2,411.54		
			<i>For >3 To 9, Deduct</i>	-14.51	
			<i>For >9, Deduct</i>	-29.99	
31 64 13 00-0064	EA		Bell Excavation And Concrete, 7' Bell Diameter Soft Rock/Shale 36" Shaft 2.33 CY .....3,617.26		
			<i>For >3 To 9, Deduct</i>	-24.41	
			<i>For >9, Deduct</i>	-50.45	
31 64 13 00-0065	EA		Bell Excavation And Concrete, 8' Bell Diameter Soft Rock/Shale 42" Shaft 3.3 CY .....5,149.55		
			<i>For >3 To 9, Deduct</i>	-34.31	
			<i>For >9, Deduct</i>	-70.91	
31 64 13 00-0066	EA		Bell Excavation And Concrete, 9' Bell Diameter Soft Rock/Shale 48" Shaft 4.48 CY .....6,801.11		
			<i>For >3 To 9, Deduct</i>	-41.26	
			<i>For >9, Deduct</i>	-85.28	
31 64 13 00-0067	EA		Bell Excavation And Concrete, 10' Bell Diameter Soft Rock/Shale 60" Shaft 5.24 CY .....8,284.92		
			<i>For >3 To 9, Deduct</i>	-48.37	
			<i>For >9, Deduct</i>	-99.96	
31 64 13 00-0068	EA		Bell Excavation And Concrete, 12' Bell Diameter Soft Rock/Shale 72" Shaft 8.74 CY .....12,538.22		
			<i>For >3 To 9, Deduct</i>	-80.86	
			<i>For >9, Deduct</i>	-167.12	
31 64 13 00-0069	EA		Bell Excavation And Concrete, 14' Bell Diameter Soft Rock/Shale 84" Shaft 13.6 CY .....18,862.75		
			<i>For >3 To 9, Deduct</i>	-125.45	
			<i>For >9, Deduct</i>	-259.27	
31 64 13 00-0070			Caisson Setup And Removal <small>(31 64 13)</small>		
			Note: Includes mobilization of equipment, erection, dismantling of equipment, move off of site.		
31 64 13 00-0071	EA		Erect, Set Up, Dismantle And Removal Of Caisson 18" To 36" Diameter, Complete .....3,091.72		
			<i>For >3 To 9, Deduct</i>	-13.84	
			<i>For >9, Deduct</i>	-28.61	



Earthwork	31	
Special Foundations And Load-bearing Elements	31 60	13
Caissons	31 64	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0072 EA Erect, Set Up, Dismantle And Removal Of Caisson 48" To 84" Diameter, Complete	4,368.41	
For >3 To 9, Deduct	-36.92	
For >9, Deduct	-76.30	
31 64 13 00-0073 EA Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 18" To 36" Diameter.....	1,453.57	
31 64 13 00-0074 EA Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 48" To 84" Diameter.....	1,938.08	
31 64 13 00-0075 EA Relocate Caisson Equipment To Different Hole On-Site Without Dismantling.....	121.13	

31 66 Special Foundation (31 60)

31 66 15 Helical Foundation Piles (31 66)

31 66 15 00-0001 Helical Pier Restoration (Atlas) (31 66 15)

31 66 15 00-0002 EA Structural Steel Piers (Atlas Pier System Or Equal)	2,779.32	
Note: Includes heavy duty bracket, pier platform, and 14' of 3.5" diameter pier sections, non-corrosive coating, hydraulic lifting, fasteners, and other related activities and materials. Excludes excavation and core drilling		
For >3 To 9, Deduct	-208.45	
For >9, Deduct	-430.79	
31 66 15 00-0003 EA Pressure Injecting Grout For Slab Repairs, Per Location	320.74	
Note: Includes preparation, installing and removing grout injection pipes, and finishing. Excludes grout and core drilling.		
For >3 To 9, Deduct	-24.06	
For >9, Deduct	-49.71	
31 66 15 00-0004 CY Pressure Injected Non-Shrink Grout	320.74	
For >3 To 9, Deduct	-24.06	
For >9, Deduct	-49.71	

31 68 Foundation Anchors (31 60)

31 68 13 Rock Foundation Anchors (31 68)

31 68 13 00-0001 Materials And Placement (31 68 13)

31 68 13 00-0002 Hollow Core Prestressable Anchor, ASTM A615 (31 68 13 00-0001)

Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.

31 68 13 00-0003 3/4" Diameter (31 68 13 00-0002)

31 68 13 00-0004 EA 3/4" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	158.05	
For >3 To 9, Deduct	-7.35	
For >9, Deduct	-15.18	
31 68 13 00-0005 EA 3/4" Rock Bolt, 10' Hollow Core Prestressable Anchor	226.66	
For >3 To 9, Deduct	-10.99	
For >9, Deduct	-22.71	
31 68 13 00-0006 EA 3/4" Rock Bolt, 15' Hollow Core Prestressable Anchor	275.24	
For >3 To 9, Deduct	-14.63	
For >9, Deduct	-30.24	
31 68 13 00-0007 EA 3/4" Rock Bolt, 20' Hollow Core Prestressable Anchor	363.90	
For >3 To 9, Deduct	-18.28	
For >9, Deduct	-37.78	

31 68 13 00-0008 1" Diameter (31 68 13 00-0002)

31 68 13 00-0009 EA 1" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	198.66	
For >3 To 9, Deduct	-10.39	
For >9, Deduct	-21.48	
31 68 13 00-0010 EA 1" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	304.74	
For >3 To 9, Deduct	-16.85	
For >9, Deduct	-34.82	
31 68 13 00-0011 EA 1" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	390.80	
For >3 To 9, Deduct	-23.30	
For >9, Deduct	-48.16	
31 68 13 00-0012 EA 1" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	516.96	
For >3 To 9, Deduct	-29.76	
For >9, Deduct	-61.50	

31 68 13 00-0013 1-3/8" Diameter (31 68 13 00-0002)

31 68 13 00-0014 EA 1-3/8" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	323.87	
For >3 To 9, Deduct	-19.78	
For >9, Deduct	-40.88	
31 68 13 00-0015 EA 1-3/8" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	501.76	
For >3 To 9, Deduct	-31.62	
For >9, Deduct	-65.35	
31 68 13 00-0016 EA 1-3/8" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	659.64	
For >3 To 9, Deduct	-43.46	
For >9, Deduct	-89.83	
31 68 13 00-0017 EA 1-3/8" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	857.58	
For >3 To 9, Deduct	-55.30	
For >9, Deduct	-114.30	

31 Earthwork**31 60 Special Foundations And Load-bearing Elements****31 68 Foundation Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0018			2" Diameter <small>(31 68 13 00-0002)</small>		
	31 68 13 00-0019	EA	2" Rock Bolt, 5' Hollow Core Prestressable Anchor	704.68	
			<i>For >3 To 9, Deduct</i>	-48.34	
			<i>For >9, Deduct</i>	-99.91	
	31 68 13 00-0020	EA	2" Rock Bolt, 10' Hollow Core Prestressable Anchor	1,046.57	
			<i>For >3 To 9, Deduct</i>	-72.48	
			<i>For >9, Deduct</i>	-149.80	
	31 68 13 00-0021	EA	2" Rock Bolt, 15' Hollow Core Prestressable Anchor	1,368.39	
			<i>For >3 To 9, Deduct</i>	-96.62	
			<i>For >9, Deduct</i>	-199.68	
	31 68 13 00-0022	EA	2" Rock Bolt, 20' Hollow Core Prestressable Anchor	1,730.32	
			<i>For >3 To 9, Deduct</i>	-120.76	
			<i>For >9, Deduct</i>	-249.57	
31 68 13 00-0023			Super High-Tensile Anchors, ASTM A-108 <small>(31 68 13 00-0001)</small>		
			Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0024			3/4" Diameter <small>(31 68 13 00-0023)</small>		
	31 68 13 00-0025	EA	3/4" Rock Bolt, 5' Super High-Tensile Anchor	116.96	
			<i>For >3 To 9, Deduct</i>	-4.26	
			<i>For >9, Deduct</i>	-8.81	
	31 68 13 00-0026	EA	3/4" Rock Bolt, 10' Super High-Tensile Anchor	156.02	
			<i>For >3 To 9, Deduct</i>	-5.69	
			<i>For >9, Deduct</i>	-11.76	
	31 68 13 00-0027	EA	3/4" Rock Bolt, 15' Super High-Tensile Anchor	174.99	
			<i>For >3 To 9, Deduct</i>	-7.12	
			<i>For >9, Deduct</i>	-14.70	
	31 68 13 00-0028	EA	3/4" Rock Bolt, 20' Super High-Tensile Anchor	232.67	
			<i>For >3 To 9, Deduct</i>	-8.44	
			<i>For >9, Deduct</i>	-17.43	
31 68 13 00-0029			1" Diameter <small>(31 68 13 00-0023)</small>		
	31 68 13 00-0030	EA	1" Rock Bolt, 5' Super High-Tensile Anchor	138.04	
			<i>For >3 To 9, Deduct</i>	-5.85	
			<i>For >9, Deduct</i>	-12.08	
	31 68 13 00-0031	EA	1" Rock Bolt, 10' Super High-Tensile Anchor	191.53	
			<i>For >3 To 9, Deduct</i>	-8.36	
			<i>For >9, Deduct</i>	-17.27	
	31 68 13 00-0032	EA	1" Rock Bolt, 15' Super High-Tensile Anchor	223.31	
			<i>For >3 To 9, Deduct</i>	-10.74	
			<i>For >9, Deduct</i>	-22.19	
	31 68 13 00-0033	EA	1" Rock Bolt, 20' Super High-Tensile Anchor	295.16	
			<i>For >3 To 9, Deduct</i>	-13.12	
			<i>For >9, Deduct</i>	-27.12	
31 68 13 00-0034			1-1/4" Diameter <small>(31 68 13 00-0023)</small>		
	31 68 13 00-0035	EA	1-1/4" Rock Bolt, 5' Super High-Tensile Anchor	199.94	
			<i>For >3 To 9, Deduct</i>	-10.49	
			<i>For >9, Deduct</i>	-21.68	
	31 68 13 00-0036	EA	1-1/4" Rock Bolt, 10' Super High-Tensile Anchor	280.26	
			<i>For >3 To 9, Deduct</i>	-15.01	
			<i>For >9, Deduct</i>	-31.02	
	31 68 13 00-0037	EA	1-1/4" Rock Bolt, 15' Super High-Tensile Anchor	340.18	
			<i>For >3 To 9, Deduct</i>	-19.50	
			<i>For >9, Deduct</i>	-40.31	
	31 68 13 00-0038	EA	1-1/4" Rock Bolt, 20' Super High-Tensile Anchor	437.67	
			<i>For >3 To 9, Deduct</i>	-23.81	
			<i>For >9, Deduct</i>	-49.21	
31 68 13 00-0039			2" Diameter <small>(31 68 13 00-0023)</small>		
	31 68 13 00-0040	EA	2" Rock Bolt, 5' Super High-Tensile Anchor	515.04	
			<i>For >3 To 9, Deduct</i>	-34.12	
			<i>For >9, Deduct</i>	-70.52	
	31 68 13 00-0041	EA	2" Rock Bolt, 10' Super High-Tensile Anchor	731.59	
			<i>For >3 To 9, Deduct</i>	-48.86	
			<i>For >9, Deduct</i>	-100.98	
	31 68 13 00-0042	EA	2" Rock Bolt, 15' Super High-Tensile Anchor	891.40	
			<i>For >3 To 9, Deduct</i>	-60.85	
			<i>For >9, Deduct</i>	-125.75	
	31 68 13 00-0043	EA	2" Rock Bolt, 20' Super High-Tensile Anchor	1,100.95	
			<i>For >3 To 9, Deduct</i>	-73.56	
			<i>For >9, Deduct</i>	-152.02	



Earthwork	31	15
Special Foundations And Load-bearing Elements	31 60	
Foundation Anchors	31 68	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0044 Solid Rebar Anchors, ASTM A615 <small>(31 68 13 00-0001)</small>		
Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0045 3/4" Diameter <small>(31 68 13 00-0044)</small>		
31 68 13 00-0046 EA 3/4" Rock Bolt, 5' Solid Rebar Anchor	110.19	
For >3 To 9, Deduct	-3.76	
For >9, Deduct	-7.76	
31 68 13 00-0047 EA 3/4" Rock Bolt, 10' Solid Rebar Anchor	141.71	
For >3 To 9, Deduct	-4.62	
For >9, Deduct	-9.55	
31 68 13 00-0048 EA 3/4" Rock Bolt, 15' Solid Rebar Anchor	153.18	
For >3 To 9, Deduct	-5.48	
For >9, Deduct	-11.32	
31 68 13 00-0049 EA 3/4" Rock Bolt, 20' Solid Rebar Anchor	204.75	
For >3 To 9, Deduct	-6.34	
For >9, Deduct	-13.11	
31 68 13 00-0050 1" Diameter <small>(31 68 13 00-0044)</small>		
31 68 13 00-0051 EA 1" Rock Bolt, 5' Solid Rebar Anchor	123.22	
For >3 To 9, Deduct	-4.73	
For >9, Deduct	-9.78	
31 68 13 00-0052 EA 1" Rock Bolt, 10' Solid Rebar Anchor	163.25	
For >3 To 9, Deduct	-6.23	
For >9, Deduct	-12.89	
31 68 13 00-0053 EA 1" Rock Bolt, 15' Solid Rebar Anchor	183.28	
For >3 To 9, Deduct	-7.74	
For >9, Deduct	-15.99	
31 68 13 00-0054 EA 1" Rock Bolt, 20' Solid Rebar Anchor	243.34	
For >3 To 9, Deduct	-9.24	
For >9, Deduct	-19.09	
31 68 13 00-0055 1-1/4" Diameter <small>(31 68 13 00-0044)</small>		
31 68 13 00-0056 EA 1-1/4" Rock Bolt, 5' Solid Rebar Anchor	175.32	
For >3 To 9, Deduct	-8.64	
For >9, Deduct	-17.86	
31 68 13 00-0057 EA 1-1/4" Rock Bolt, 10' Solid Rebar Anchor	226.61	
For >3 To 9, Deduct	-10.99	
For >9, Deduct	-22.71	
31 68 13 00-0058 EA 1-1/4" Rock Bolt, 15' Solid Rebar Anchor	257.95	
For >3 To 9, Deduct	-13.34	
For >9, Deduct	-27.56	
31 68 13 00-0059 EA 1-1/4" Rock Bolt, 20' Solid Rebar Anchor	329.33	
For >3 To 9, Deduct	-15.69	
For >9, Deduct	-32.42	
31 68 13 00-0060 Resin Anchoring With Grade 60 Rebar <small>(31 68 13 00-0001)</small>		
Note: Pricing includes only material and labor to install anchors.. See CSI section 31 68 13 00-0081 for rebar collars, 31 68 13 00-0083 for resin cartridges, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0061 Rebar #6 <small>(31 68 13 00-0060)</small>		
31 68 13 00-0062 EA #6 Rebar Rock Anchor, 5' Resin Anchor With Grade 60 Rebar.....	64.47	
For >3 To 9, Deduct	-0.33	
For >9, Deduct	-0.68	
31 68 13 00-0063 EA #6 Rebar Rock Anchor, 10' Resin Anchor With Grade 60 Rebar.....	88.85	
For >3 To 9, Deduct	-0.65	
For >9, Deduct	-1.35	
31 68 13 00-0064 EA #6 Rebar Rock Anchor, 15' Resin Anchor With Grade 60 Rebar.....	93.22	
For >3 To 9, Deduct	-0.98	
For >9, Deduct	-2.03	
31 68 13 00-0065 EA #6 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	128.92	
For >3 To 9, Deduct	-0.65	
For >9, Deduct	-1.35	
31 68 13 00-0066 Rebar #8 <small>(31 68 13 00-0060)</small>		
31 68 13 00-0067 EA #8 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	67.86	
For >3 To 9, Deduct	-0.58	
For >9, Deduct	-1.20	
31 68 13 00-0068 EA #8 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	95.64	
For >3 To 9, Deduct	-1.16	
For >9, Deduct	-2.41	
31 68 13 00-0069 EA #8 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	103.41	
For >3 To 9, Deduct	-1.75	
For >9, Deduct	-3.61	
31 68 13 00-0070 EA #8 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	151.24	
For >3 To 9, Deduct	-2.33	
For >9, Deduct	-4.81	

31	Earthwork
31 60	Special Foundations And Load-bearing Elements
31 68	Foundation Anchors



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 68 13 00-0071	Rebar #10 <small>(31 68 13 00-0060)</small>		
31 68 13 00-0072	EA #10 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	72.71	
	<i>For >3 To 9, Deduct</i>	-0.95	
	<i>For >9, Deduct</i>	-1.95	
31 68 13 00-0073	EA #10 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	105.35	
	<i>For >3 To 9, Deduct</i>	-1.89	
	<i>For >9, Deduct</i>	-3.91	
31 68 13 00-0074	EA #10 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	117.96	
	<i>For >3 To 9, Deduct</i>	-2.84	
	<i>For >9, Deduct</i>	-5.87	
31 68 13 00-0075	EA #10 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	170.64	
	<i>For >3 To 9, Deduct</i>	-3.78	
	<i>For >9, Deduct</i>	-7.82	
31 68 13 00-0076	Rebar #14 <small>(31 68 13 00-0060)</small>		
31 68 13 00-0077	EA #14 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	84.36	
	<i>For >3 To 9, Deduct</i>	-1.82	
	<i>For >9, Deduct</i>	-3.76	
31 68 13 00-0078	EA #14 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	128.63	
	<i>For >3 To 9, Deduct</i>	-3.64	
	<i>For >9, Deduct</i>	-7.52	
31 68 13 00-0079	EA #14 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	152.89	
	<i>For >3 To 9, Deduct</i>	-5.46	
	<i>For >9, Deduct</i>	-11.28	
31 68 13 00-0080	EA #14 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	217.22	
	<i>For >3 To 9, Deduct</i>	-7.28	
	<i>For >9, Deduct</i>	-15.04	
31 68 13 00-0081	Plastic Rebar Collars, Sizes #6-#14 <small>(31 68 13 00-0060)</small>		
31 68 13 00-0082	EA Plastic Rebar Collars For Rebar #4 To #14	0.92	
	<i>For >3 To 9, Deduct</i>	-0.07	
	<i>For >9, Deduct</i>	-0.14	
31 68 13 00-0083	12" Long Resin Cartridges <small>(31 68 13 00-0001)</small>		
31 68 13 00-0084	EA 7/8" Resin Cartridge 12" Long	1.93	
	<i>For >3 To 9, Deduct</i>	-0.14	
	<i>For >9, Deduct</i>	-0.30	
31 68 13 00-0085	EA 1" Resin Cartridge 12" Long	2.64	
	<i>For >3 To 9, Deduct</i>	-0.20	
	<i>For >9, Deduct</i>	-0.41	
31 68 13 00-0086	EA 1-1/16" Resin Cartridge 12" Long	2.83	
	<i>For >3 To 9, Deduct</i>	-0.21	
	<i>For >9, Deduct</i>	-0.44	
31 68 13 00-0087	EA 1-1/4" Resin Cartridge 12" Long	3.06	
	<i>For >3 To 9, Deduct</i>	-0.23	
	<i>For >9, Deduct</i>	-0.47	
31 68 13 00-0088	EA 1-3/8" Resin Cartridge 12" Long	3.51	
	<i>For >3 To 9, Deduct</i>	-0.26	
	<i>For >9, Deduct</i>	-0.54	
31 68 13 00-0089	EA 1-9/16" Resin Cartridge 12" Long	4.40	
	<i>For >3 To 9, Deduct</i>	-0.33	
	<i>For >9, Deduct</i>	-0.68	
31 68 13 00-0090	EA 1-3/4" Resin Cartridge 12" Long	6.04	
	<i>For >3 To 9, Deduct</i>	-0.45	
	<i>For >9, Deduct</i>	-0.94	
31 68 13 00-0091	Head Assembly <small>(31 68 13 00-0001)</small>		
31 68 13 00-0092	3/4" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0093	EA 3/4" Rod Head Assembly 1-5/8" Short Cone and Shell	21.22	
	<i>For >3 To 9, Deduct</i>	-1.59	
	<i>For >9, Deduct</i>	-3.29	
31 68 13 00-0094	EA 3/4" Rod Head Assembly 1-3/4" Short Cone and Shell	17.88	
	<i>For >3 To 9, Deduct</i>	-1.34	
	<i>For >9, Deduct</i>	-2.77	
31 68 13 00-0095	EA 3/4" Rod Head Assembly 1-7/8" Short Cone and Shell	18.75	
	<i>For >3 To 9, Deduct</i>	-1.41	
	<i>For >9, Deduct</i>	-2.91	
31 68 13 00-0096	EA 3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	33.67	
	<i>For >3 To 9, Deduct</i>	-2.53	
	<i>For >9, Deduct</i>	-5.22	
31 68 13 00-0097	EA 3/4" Rod Head Assembly 1-7/8" Long Cone and Shell	33.67	
	<i>For >3 To 9, Deduct</i>	-2.53	
	<i>For >9, Deduct</i>	-5.22	
31 68 13 00-0098	EA 3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	31.90	
	<i>For >3 To 9, Deduct</i>	-2.39	
	<i>For >9, Deduct</i>	-4.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0099 1" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0100 EA 1" Rod Head Assembly 1-5/8" Short Cone and Shell	22.87	
<i>For >3 To 9, Deduct</i>	-1.72	
<i>For >9, Deduct</i>	-3.54	
31 68 13 00-0101 EA 1" Rod Head Assembly 1-3/4" Short Cone and Shell	19.58	
<i>For >3 To 9, Deduct</i>	-1.47	
<i>For >9, Deduct</i>	-3.03	
31 68 13 00-0102 EA 1" Rod Head Assembly 1-7/8" Short Cone and Shell	20.45	
<i>For >3 To 9, Deduct</i>	-1.53	
<i>For >9, Deduct</i>	-3.17	
31 68 13 00-0103 EA 1" Rod Head Assembly 1-3/4" Long Cone and Shell	35.42	
<i>For >3 To 9, Deduct</i>	-2.66	
<i>For >9, Deduct</i>	-5.49	
31 68 13 00-0104 EA 1" Rod Head Assembly 1-7/8" Long Cone and Shell	35.42	
<i>For >3 To 9, Deduct</i>	-2.66	
<i>For >9, Deduct</i>	-5.49	
31 68 13 00-0105 EA 1" Rod Head Assembly 1-3/4" Long Cone and Shell	33.77	
<i>For >3 To 9, Deduct</i>	-2.53	
<i>For >9, Deduct</i>	-5.23	
31 68 13 00-0106 1-1/4" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0107 EA 1-1/4" Rod Head Assembly 2" Short Cone and Shell	51.04	
<i>For >3 To 9, Deduct</i>	-3.83	
<i>For >9, Deduct</i>	-7.91	
31 68 13 00-0108 EA 1-1/4" Rod Head Assembly 2-1/4" Short Cone and Shell	59.62	
<i>For >3 To 9, Deduct</i>	-4.47	
<i>For >9, Deduct</i>	-9.24	
31 68 13 00-0109 EA 1-1/4" Rod Head Assembly 2-1/2" Short Cone and Shell	60.47	
<i>For >3 To 9, Deduct</i>	-4.54	
<i>For >9, Deduct</i>	-9.37	
31 68 13 00-0110 EA 1-1/4" Rod Head Assembly 2-1/4" Long Cone and Shell	53.63	
<i>For >3 To 9, Deduct</i>	-4.02	
<i>For >9, Deduct</i>	-8.31	
31 68 13 00-0111 EA 1-1/4" Rod Head Assembly 2-1/2" Long Cone and Shell	62.53	
<i>For >3 To 9, Deduct</i>	-4.69	
<i>For >9, Deduct</i>	-9.69	
31 68 13 00-0112 1-7/8" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0113 EA 1-7/8" Rod Head Assembly 3-1/2" Long Cone/Shell/Fl	200.87	
<i>For >3 To 9, Deduct</i>	-15.07	
<i>For >9, Deduct</i>	-31.13	
31 68 13 00-0114 EA 1-7/8" Rod Head Assembly 3" Long Cone and Shell	138.48	
<i>For >3 To 9, Deduct</i>	-10.39	
<i>For >9, Deduct</i>	-21.46	
31 68 13 00-0115 2" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0116 EA 2" Rod Head Assembly 3-1/2" Long Cone/Shell/Fl	200.87	
<i>For >3 To 9, Deduct</i>	-15.07	
<i>For >9, Deduct</i>	-31.13	
31 68 13 00-0117 EA 2" Rod Head Assembly 3" Long Cone and Shell	138.48	
<i>For >3 To 9, Deduct</i>	-10.39	
<i>For >9, Deduct</i>	-21.46	
31 68 13 00-0118 Steel Plates With Standard Hole And Washers <small>(31 68 13 00-0001)</small>		
31 68 13 00-0119 Steel Plates <small>(31 68 13 00-0118)</small>		
31 68 13 00-0120 EA 1/4" x 4" x 4" Steel Plate For Rock Bolt With Washer	3.08	
<i>For >3 To 9, Deduct</i>	-0.23	
<i>For >9, Deduct</i>	-0.48	
31 68 13 00-0121 EA 1/4" x 6" x 6" Steel Plate For Rock Bolt With Washer	5.69	
<i>For >3 To 9, Deduct</i>	-0.43	
<i>For >9, Deduct</i>	-0.88	
31 68 13 00-0122 EA 3/8" x 6" x 6" Steel Plate For Rock Bolt With Washer	7.92	
<i>For >3 To 9, Deduct</i>	-0.59	
<i>For >9, Deduct</i>	-1.23	
31 68 13 00-0123 EA 3/8" x 8" x 8" Steel Plate For Rock Bolt With Washer	13.89	
<i>For >3 To 9, Deduct</i>	-1.04	
<i>For >9, Deduct</i>	-2.15	
31 68 13 00-0124 EA 1/2" x 5" x 5" Steel Plate For Rock Bolt With Washer	5.39	
<i>For >3 To 9, Deduct</i>	-0.40	
<i>For >9, Deduct</i>	-0.84	
31 68 13 00-0125 EA 1/2" x 8" x 8" Steel Plate For Rock Bolt With Washer	14.17	
<i>For >3 To 9, Deduct</i>	-1.06	
<i>For >9, Deduct</i>	-2.20	
31 68 13 00-0126 EA 3/4" x 7" x 7" Steel Plate For Rock Bolt With Washer	23.51	
<i>For >3 To 9, Deduct</i>	-1.76	
<i>For >9, Deduct</i>	-3.64	

31	Earthwork
31 60	Special Foundations And Load-bearing Elements
31 68	Foundation Anchors



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0127 EA 3/4" x 8" x 8" Steel Plate For Rock Bolt With Washer	33.31	
For >3 To 9, Deduct	-2.50	
For >9, Deduct	-5.16	
31 68 13 00-0128 EA 1" x 4" x 7" Steel Plate For Rock Bolt With Washer	20.00	
For >3 To 9, Deduct	-1.50	
For >9, Deduct	-3.10	
31 68 13 00-0129 EA 1" x 9" x 9" Steel Plate For Rock Bolt With Washer	56.57	
For >3 To 9, Deduct	-4.24	
For >9, Deduct	-8.77	
31 68 13 00-0130 EA 1" x 12" x 12" Steel Plate For Rock Bolt With Washer	83.36	
For >3 To 9, Deduct	-6.25	
For >9, Deduct	-12.92	
31 68 13 00-0131 EA 1-1/4" x 5" x 8" Steel Plate For Rock Bolt With Washer	36.59	
For >3 To 9, Deduct	-2.74	
For >9, Deduct	-5.67	
31 68 13 00-0132 EA 1-1/4" x 11" x 11" Steel Plate For Rock Bolt With Washer	98.97	
For >3 To 9, Deduct	-7.42	
For >9, Deduct	-15.34	
31 68 13 00-0133 EA 1-1/2" x 5" x 10" Steel Plate For Rock Bolt With Washer	49.49	
For >3 To 9, Deduct	-3.71	
For >9, Deduct	-7.67	
31 68 13 00-0134 EA 1-1/2" x 12" x 12" Steel Plate For Rock Bolt With Washer	119.04	
For >3 To 9, Deduct	-8.93	
For >9, Deduct	-18.45	
31 68 13 00-0135 EA 1-3/4" x 5" x 10" Steel Plate For Rock Bolt With Washer	54.63	
For >3 To 9, Deduct	-4.10	
For >9, Deduct	-8.47	
31 68 13 00-0136 EA 1-3/4" x 12" x 12" Steel Plate For Rock Bolt With Washer	132.03	
For >3 To 9, Deduct	-9.90	
For >9, Deduct	-20.46	
31 68 13 00-0137 Hardened Washers <small>(31 68 13 00-0118)</small>		
31 68 13 00-0138 EA Hardened Washer For 3/4" Diameter Rock Bolt	0.70	
For >3 To 9, Deduct	-0.05	
For >9, Deduct	-0.11	
31 68 13 00-0139 EA Hardened Washer For 1" Diameter Rock Bolt	0.97	
For >3 To 9, Deduct	-0.07	
For >9, Deduct	-0.15	
31 68 13 00-0140 EA Hardened Washer For 1-1/4" Diameter Rock Bolt	2.72	
For >3 To 9, Deduct	-0.20	
For >9, Deduct	-0.42	
31 68 13 00-0141 EA Hardened Washer For 2" Diameter Rock Bolt	6.77	
For >3 To 9, Deduct	-0.51	
For >9, Deduct	-1.05	
31 68 13 00-0142 Beveled Washers <small>(31 68 13 00-0118)</small>		
31 68 13 00-0143 EA Beveled Washer For 3/4" Diameter Rock Bolt	1.77	
For >3 To 9, Deduct	-0.13	
For >9, Deduct	-0.27	
31 68 13 00-0144 EA Beveled Washer For 7/8" To 1-1/8" Diameter Rock Bolt	1.75	
For >3 To 9, Deduct	-0.13	
For >9, Deduct	-0.27	
31 68 13 00-0145 EA Beveled Wash For 1-1/4" To 1-3/8" Diameter Rock Bolt	2.64	
For >3 To 9, Deduct	-0.20	
For >9, Deduct	-0.41	
31 68 13 00-0146 EA Beveled Washer For 1-1/2" Diameter Rock Bolt	11.30	
For >3 To 9, Deduct	-0.85	
For >9, Deduct	-1.75	
31 68 13 00-0147 EA Beveled Washer For 2" Diameter Rock Bolt	7.81	
For >3 To 9, Deduct	-0.59	
For >9, Deduct	-1.21	
31 68 13 00-0148 Hex Nuts <small>(31 68 13 00-0118)</small>		
31 68 13 00-0149 EA Hex Nut For 3/4" Diameter Rock Bolt	1.38	
For >3 To 9, Deduct	-0.10	
For >9, Deduct	-0.21	
31 68 13 00-0150 EA Hex Nut For 1" Diameter Rock Bolt	2.26	
For >3 To 9, Deduct	-0.17	
For >9, Deduct	-0.35	
31 68 13 00-0151 EA Hex Nut For 1-1/4" Diameter Rock Bolt	9.24	
For >3 To 9, Deduct	-0.69	
For >9, Deduct	-1.43	
31 68 13 00-0152 EA Hex Nut For 1-1/2" Diameter Rock Bolt	5.82	
For >3 To 9, Deduct	-0.44	
For >9, Deduct	-0.90	
31 68 13 00-0153 EA Hex Nut For 2" Diameter Rock Bolt	37.14	
For >3 To 9, Deduct	-2.79	
For >9, Deduct	-5.76	
31 68 13 00-0154 Drilling Operation For Rockbolts <small>(31 68 13)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0155 Drill Holes For Rock Bolts <small>(31 68 13 00-0154)</small>		
31 68 13 00-0156 3/4" Diameter Bolt, 1-3/4" Hole <small>(31 68 13 00-0155)</small>		
31 68 13 00-0157 EA Drill 1-3/4" Diameter Hole x 5' Long For 3/4" Diameter Rock Bolts.....	146.72	
31 68 13 00-0158 EA Drill 1-3/4" Diameter Hole x 10' Long For 3/4" Diameter Rock Bolts.....	277.13	
31 68 13 00-0159 EA Drill 1-3/4" Diameter Hole x 15' Long For 3/4" Diameter Rock Bolts.....	415.70	
31 68 13 00-0160 EA Drill 1-3/4" Diameter Hole x 20' Long For 3/4" Diameter Rock Bolts.....	498.84	
31 68 13 00-0161 1" Diameter Bolt, 2" Hole <small>(31 68 13 00-0155)</small>		
31 68 13 00-0162 EA Drill 2" Diameter Hole x 5' Long For 1" Diameter Rock Bolt.....	191.87	
31 68 13 00-0163 EA Drill 2" Diameter Hole x 10' Long For 1" Diameter Rock Bolt.....	356.31	
31 68 13 00-0164 EA Drill 2" Diameter Hole x 15' Long For 1" Diameter Rock Bolt.....	498.84	
31 68 13 00-0165 EA Drill 2" Diameter Hole x 20' Long For 1" Diameter Rock Bolt.....	623.56	
31 68 13 00-0166 1-1/4" Diameter Bolt, 2-1/4" Hole <small>(31 68 13 00-0155)</small>		
31 68 13 00-0167 EA Drill 2-1/4" Diameter Hole x 5' Long For 1-1/4" Diameter Rock Bolt.....	207.85	
31 68 13 00-0168 EA Drill 2-1/4" Diameter Hole x 10' Long For 1-1/4" Diameter Rock Bolt.....	415.70	
31 68 13 00-0169 EA Drill 2-1/4" Diameter Hole x 15' Long For 1-1/4" Diameter Rock Bolt.....	623.56	
31 68 13 00-0170 EA Drill 2-1/4" Diameter Hole x 20' Long For 1-1/4" Diameter Rock Bolt.....	831.41	
31 68 13 00-0171 2" Diameter Bolt, 3-1/2" Hole <small>(31 68 13 00-0155)</small>		
31 68 13 00-0172 EA Drill 3-1/2" Diameter Hole x 5 Long For 2" Diameter Rock Bolt.....	249.42	
31 68 13 00-0173 EA Drill 3-1/2" Diameter Hole x 10' Long For 2" Diameter Rock Bolt.....	498.84	
31 68 13 00-0174 EA Drill 3-1/2" Diameter Hole x 15' Long For 2" Diameter Rock Bolts.....	831.41	
31 68 13 00-0175 EA Drill 3-1/2" Diameter Hole x 20' Long For 2" Diameter Rock Bolt.....	1,247.11	
31 68 13 00-0176 Tools <small>(31 68 13)</small>		
31 68 13 00-0177 Hydraulic Jacks, Monthly Rental <small>(31 68 13 00-0176)</small>		
31 68 13 00-0178 EA 1/2" To 1", 30 Ton Hydraulic Jack For Rock Bolt, 2" Stroke.....	403.28	
For >3 To 9, Deduct	-30.25	
For >9, Deduct	-62.51	
31 68 13 00-0179 EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 3" Stroke.....	594.31	
For >3 To 9, Deduct	-44.57	
For >9, Deduct	-92.12	
31 68 13 00-0180 EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 10" Stroke.....	997.03	
For >3 To 9, Deduct	-74.78	
For >9, Deduct	-154.54	
31 68 13 00-0181 EA 1-7/8" To 2", 100 Ton Hydraulic Jack For Rock Bolt, 10" Stroke.....	1,492.68	
For >3 To 9, Deduct	-111.95	
For >9, Deduct	-231.37	
31 68 13 00-0182 EA 1-7/8" To 2", 150 Ton Hydraulic Jack For Rock Bolt, 12" Stroke.....	2,231.28	
For >3 To 9, Deduct	-167.35	
For >9, Deduct	-345.85	
31 68 13 00-0183 Torque Wrenches And Ratchet Adapter, Monthly Rental <small>(31 68 13 00-0176)</small>		
31 68 13 00-0184 0-500 Foot Pounds (0-678J) <small>(31 68 13 00-0183)</small>		
31 68 13 00-0185 EA 1/2" To 1" Bolt Diameter Torque Wrench 0 To 500 Foot Pounds, Monthly Rental.....	141.12	
For >3 To 9, Deduct	-10.58	
For >9, Deduct	-21.87	
31 68 13 00-0186 EA Torque Wrench Ratchet Adapter Monthly Rental, 0 To 500 Foot Pounds.....	88.46	
For >3 To 9, Deduct	-6.63	
For >9, Deduct	-13.71	
31 68 13 00-0187 EA Torque Wrench With Adapter 0 To 500 Foot Pounds, Monthly Rental.....	229.75	
For >3 To 9, Deduct	-17.23	
For >9, Deduct	-35.61	
31 68 13 00-0188 0-600 Foot Pounds (0-814J) <small>(31 68 13 00-0183)</small>		
31 68 13 00-0189 EA 0 To 600 Foot Pounds Torque Wrench Self-Ratcheting, Monthly Rental.....	160.23	
For >3 To 9, Deduct	-12.02	
For >9, Deduct	-24.84	
31 68 13 00-0190 Up To 1,000 Foot Pounds (0-1356J) <small>(31 68 13 00-0183)</small>		
31 68 13 00-0191 EA 1-1/8" To 2" Bolt Diameter Torque Wrench 0 To 1,000 Foot Pounds, Monthly Rental.....	307.72	
For >3 To 9, Deduct	-23.08	
For >9, Deduct	-47.70	
31 68 13 00-0192 EA Torque Wrench Ratchet Adapter 0 To 1,000 Foot Pounds, Monthly Rental.....	75.90	
For >3 To 9, Deduct	-5.69	
For >9, Deduct	-11.76	
31 68 13 00-0193 EA Torque Wrench With Ratchet 0 To 1,000 Foot Pounds, Monthly Rental.....	383.61	
For >3 To 9, Deduct	-28.77	
For >9, Deduct	-59.46	

31	Earthwork
31 60	Special Foundations And Load-bearing Elements
31 68	Foundation Anchors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0194			Torque Multiplier, 4:1 Multiplier <small>(31 68 13 00-0176)</small>		
31 68 13 00-0195	EA		Torque Multiplier, 4 To 1 Ratio.....	394.11	
			<i>For >3 To 9, Deduct</i>	-29.56	
			<i>For >9, Deduct</i>	-61.09	
31 68 13 00-0196			Pneumatic Drive Torque Wrench <small>(31 68 13 00-0176)</small>		
31 68 13 00-0197	EA		Pneumatic Drive Torque Wrench 250 To 900 Foot Pounds (339J - 1220J).....	843.29	
			<i>For >3 To 9, Deduct</i>	-63.25	
			<i>For >9, Deduct</i>	-130.71	
31 68 13 00-0198			Grouting <small>(31 68 13)</small>		
31 68 13 00-0199			Grouting With Pumps <small>(31 68 13 00-0198)</small>		
			Note: Grout material and labor only.		
31 68 13 00-0200	GAL		Rock Bolt Grouting, Hand Pump 1 To 2 GPM Delivery.....	14.75	
			<i>For >3 To 9, Deduct</i>	-0.53	
			<i>For >9, Deduct</i>	-1.09	
31 68 13 00-0201	GAL		Rock Bolt Grouting, Air Pump 3 To 4 GPM Continuous Delivery.....	24.54	
			<i>For >3 To 9, Deduct</i>	-0.53	
			<i>For >9, Deduct</i>	-1.09	
31 68 13 00-0202	GAL		Rock Bolt Grout, Air/Piston Pump 2 To 4 GPM Delivery.....	22.44	
			<i>For >3 To 9, Deduct</i>	-0.53	
			<i>For >9, Deduct</i>	-1.09	
31 68 13 00-0203			Grout Pumps, Monthly Rental <small>(31 68 13 00-0198)</small>		
31 68 13 00-0204	EA		Hand Grout Pump, Monthly Rental.....	125.14	
			<i>For >3 To 9, Deduct</i>	-9.39	
			<i>For >9, Deduct</i>	-19.40	
31 68 13 00-0205	EA		Air Powered Programmable Feed Grout Pump Monthly Rental.....	1,052.68	
			<i>For >3 To 9, Deduct</i>	-78.95	
			<i>For >9, Deduct</i>	-163.17	
31 68 13 00-0206	EA		Air Powered, Piston Drive Grout Pump Monthly Rental.....	1,837.89	
			<i>For >3 To 9, Deduct</i>	-137.84	
			<i>For >9, Deduct</i>	-284.87	
31 68 13 00-0207			Rock Bolt Testing <small>(31 68 13)</small>		
31 68 13 00-0208	EA		Rock Bolt Test, Low To Medium Capacity LF >100 Bolts Need Testing.....	332.93	
			<i>For >3 To 9, Deduct</i>	-24.97	
			<i>For >9, Deduct</i>	-51.60	

END OF SECTION 31



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 Exterior Improvements

32 01 Operation And Maintenance Of Exterior Improvements ⁽³²⁾

32 01 11 Paving Cleaning ^(32 01)

32 01 11 53 Paint Removal From Paving ^(32 01 11)

32 01 11 53-0001

Remove Pavement Markings ^(32 01 11 53)

Note: Includes stripe removal by grinding, vacuuming of removed striped area and containment of debris.

32 01 11 53-0002	LF	Removal Of 4" Wide Painted Or Epoxy Pavement Striping	1.74	
		<i>For Up To 250, Add</i>	0.87	
		<i>For >250 To 1,000, Add</i>	0.44	
		<i>For >5,000 To 10,000, Deduct</i>	-0.26	
		<i>For >10,000 To 25,000, Deduct</i>	-0.44	
		<i>For >25,000 To 50,000, Deduct</i>	-0.61	
		<i>For >50,000, Deduct</i>	-0.70	
32 01 11 53-0003	LF	Removal Of 6" Wide Painted Or Epoxy Pavement Striping	2.09	
		<i>For Up To 250, Add</i>	1.05	
		<i>For >250 To 1,000, Add</i>	0.52	
		<i>For >5,000 To 10,000, Deduct</i>	-0.31	
		<i>For >10,000 To 25,000, Deduct</i>	-0.52	
		<i>For >25,000 To 50,000, Deduct</i>	-0.73	
		<i>For >50,000, Deduct</i>	-0.84	
32 01 11 53-0004	LF	Removal Of 8" Wide Painted Or Epoxy Pavement Striping	2.51	
		<i>For Up To 250, Add</i>	1.26	
		<i>For >250 To 1,000, Add</i>	0.63	
		<i>For >5,000 To 10,000, Deduct</i>	-0.38	
		<i>For >10,000 To 25,000, Deduct</i>	-0.63	
		<i>For >25,000 To 50,000, Deduct</i>	-0.88	
		<i>For >50,000, Deduct</i>	-1.00	
32 01 11 53-0005	LF	Removal Of 12" Wide Painted Or Epoxy Pavement Striping	3.00	
		<i>For Up To 250, Add</i>	1.50	
		<i>For >250 To 1,000, Add</i>	0.75	
		<i>For >5,000 To 10,000, Deduct</i>	-0.45	
		<i>For >10,000 To 25,000, Deduct</i>	-0.75	
		<i>For >25,000 To 50,000, Deduct</i>	-1.05	
		<i>For >50,000, Deduct</i>	-1.20	
32 01 11 53-0006	SF	Removal Of Painted Or Epoxy Pavement Marking, Letters Or Symbols	3.00	
		<i>For Up To 250, Add</i>	1.50	
		<i>For >250 To 1,000, Add</i>	0.75	
		<i>For >5,000 To 10,000, Deduct</i>	-0.45	
		<i>For >10,000 To 25,000, Deduct</i>	-0.75	
		<i>For >25,000 To 50,000, Deduct</i>	-1.05	
		<i>For >50,000, Deduct</i>	-1.20	

32 01 11 53-0007

Remove Pavement Markings (Monterey County) ^(32 01 11 53)

32 01 11 53-0008	LF	Remove Thermoplastic Pavement Stripe	1.19	
32 01 11 53-0009	SF	Remove Thermoplastic Pavement Marking	4.86	

32 01 13 Flexible Paving Surface Treatment ^(32 01)

32 01 13 61 Slurry Seal (Latex Modified) ^(32 01 13)

32 01 13 61-0001

Asphalt Seal Coating, For Roads And Parking Lot ^(32 01 13 61)

Note: Includes sweeping and cleaning of area.

32 01 13 61-0002	EA	Asphalt Seal Coating Minimum	439.03	
		Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
32 01 13 61-0003	SY	Up To 500 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat	1.75	
32 01 13 61-0004	SY	>500 To 1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat	1.54	
32 01 13 61-0005	SY	>1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat	1.39	
32 01 13 61-0006	SY	Up To 500 SY, Type I Slurry Seal Asphalt Coating, Per Coat	1.75	
		Note: 1/8" thick.		
		<i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i>	0.29	
		<i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i>	0.35	
		<i>For Rubberized Polymer Modified Emulsion (RPME), Add</i>	0.45	
		<i>For Each 0.5% Of Latex Addition, Add</i>	0.10	
32 01 13 61-0007	SY	>500 To 1,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat	1.59	
		Note: 1/8" thick.		
		<i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i>	0.28	
		<i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i>	0.34	
		<i>For Rubberized Polymer Modified Emulsion (RPME), Add</i>	0.44	
		<i>For Each 0.5% Of Latex Addition, Add</i>	0.10	
32 01 13 61-0008	SY	>1,000 To 5,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat	1.48	
		Note: 1/8" thick.		
		<i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i>	0.28	
		<i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i>	0.34	
		<i>For Rubberized Polymer Modified Emulsion (RPME), Add</i>	0.44	
		<i>For Each 0.5% Of Latex Addition, Add</i>	0.10	

32 Exterior Improvements**32 01 Operation And Maintenance Of Exterior Improvements****32 01 13 Flexible Paving Surface Treatment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 61-0009 SY >5,000 To 20,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat .....1.37 Note: 1/8" thick. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.27 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.33 For Rubberized Polymer Modified Emulsion (RPME), Add 0.43 For Each 0.5% Of Latex Addition, Add 0.10		
32 01 13 61-0010 SY >20,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat .....1.37 Note: 1/8" thick. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.27 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.33 For Rubberized Polymer Modified Emulsion (RPME), Add 0.43 For Each 0.5% Of Latex Addition, Add 0.10		
32 01 13 61-0011 SY Up To 500 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....2.37 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.31 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.37 For Rubberized Polymer Modified Emulsion (RPME), Add 0.47 For Each 0.5% Of Latex Addition, Add 0.15		
32 01 13 61-0012 SY >500 To 1,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....2.13 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.30 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.36 For Rubberized Polymer Modified Emulsion (RPME), Add 0.46 For Each 0.5% Of Latex Addition, Add 0.15		
32 01 13 61-0013 SY >1,000 To 5,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....1.95 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.29 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.35 For Rubberized Polymer Modified Emulsion (RPME), Add 0.45 For Each 0.5% Of Latex Addition, Add 0.15		
32 01 13 61-0014 SY >5,000 To 20,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....1.77 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.28 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.34 For Rubberized Polymer Modified Emulsion (RPME), Add 0.44 For Each 0.5% Of Latex Addition, Add 0.15		
32 01 13 61-0015 SY >20,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....1.61 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.27 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.33 For Rubberized Polymer Modified Emulsion (RPME), Add 0.43 For Each 0.5% Of Latex Addition, Add 0.15		
32 01 13 61-0016 SY Up To 500 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....2.84 Note: 3/8" thick, 25 to 30 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.32 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.38 For Rubberized Polymer Modified Emulsion (RPME), Add 0.48 For Each 0.5% Of Latex Addition, Add 0.24		
32 01 13 61-0017 SY >500 To 1,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....2.59 Note: 3/8" thick, 25 to 30 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.30 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.36 For Rubberized Polymer Modified Emulsion (RPME), Add 0.46 For Each 0.5% Of Latex Addition, Add 0.24		
32 01 13 61-0018 SY >1,000 To 5,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....2.40 Note: 3/8" thick, 25 to 30 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.30 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.36 For Rubberized Polymer Modified Emulsion (RPME), Add 0.46 For Each 0.5% Of Latex Addition, Add 0.24		
32 01 13 61-0019 SY >5,000 To 20,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....2.21 Note: 3/8" thick, 25 to 30 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.29 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.35 For Rubberized Polymer Modified Emulsion (RPME), Add 0.45 For Each 0.5% Of Latex Addition, Add 0.24		
32 01 13 61-0020 SY >20,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....2.05 Note: 3/8" thick, 25 to 30 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.28 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.34 For Rubberized Polymer Modified Emulsion (RPME), Add 0.44 For Each 0.5% Of Latex Addition, Add 0.24		

32 01 13 62 Asphalt Surface Treatment (32 01 13)**32 01 13 62-0001 Polymer-Modified, Microsurfacing Emulsion (MSE Microsurfacing)** (32 01 13 62)

Note: Use a blend of emulsified quick-set polymer-modified emulsion asphalt and latex-based polymer. Includes sweeping and cleaning of area.

32 01 13 62-0002 SY Up To 200 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE) .....5.67		
32 01 13 62-0003 SY >200 To 500 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....5.27		
32 01 13 62-0004 SY >500 To 1,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....4.93		
32 01 13 62-0005 SY >1,000 To 5,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....4.64		
32 01 13 62-0006 SY >5,000 To 10,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....4.45		
32 01 13 62-0007 SY >10,000 To 20,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....4.22		
32 01 13 62-0008 SY >20,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....4.04		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 Flexible Paving Rehabilitation <small>(32 01)</small>						
32 01 16 71 Cold Milling Asphalt Pavement <small>(32 01 16)</small>						
32 01 16 71-0001 Removal Of Asphalt Surface Course <small>(32 01 16 71)</small>						
Note: Includes direct loading into truck.						
32 01 16 71-0002 Production Cold Milling Of Roads And Parking Areas <small>(32 01 16 71-0001)</small>						
Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0051 for hauling.						
				32 01 16 71-0003 SY Up To 3" Depth, Production Cold Milling Of Asphalt.....	3.53	
				For Up To 2,500, Add	2.65	
				For >2,500 To 5,000, Add	0.88	
				For >10,000 To 25,000, Deduct	-0.35	
				For >25,000, Deduct	-0.53	
				32 01 16 71-0004 SY >3" To 6" Depth, Production Cold Milling Of Asphalt.....	4.71	
				For Up To 2,500, Add	3.53	
				For >2,500 To 5,000, Add	1.18	
				For >10,000 To 25,000, Deduct	-0.47	
				For >25,000, Deduct	-0.71	
				32 01 16 71-0005 SY >6" To 12" Depth, Production Cold Milling Of Asphalt.....	6.28	
				For Up To 2,500, Add	4.71	
				For >2,500 To 5,000, Add	1.57	
				For >10,000 To 25,000, Deduct	-0.63	
				For >25,000, Deduct	-0.94	
32 01 16 71-0006 Limited Production Cold Milling <small>(32 01 16 71-0001)</small>						
Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0051 for hauling.						
				32 01 16 71-0007 SY Up To 3" Depth, Limited Cold Milling Of Asphalt.....	22.35	
				For >100 To 1,000, Deduct	-11.18	
				For >1,000, Deduct	-16.76	
				32 01 16 71-0008 SY >3" To 6" Depth, Limited Cold Milling Of Asphalt.....	29.60	
				For >100 To 1,000, Deduct	-14.80	
				For >1,000, Deduct	-22.20	
				32 01 16 71-0009 SY >6" To 12" Depth, Limited Cold Milling Of Asphalt.....	39.42	
				For >100 To 1,000, Deduct	-19.71	
				For >1,000, Deduct	-29.57	
32 01 16 71-0010 Grind, Leave In-Place Asphalt Grindings <small>(32 01 16 71)</small>						
Note: For use as subbase material, includes spreading and rolling.						
				32 01 16 71-0011 SY Grind, Leave In-Place As Subbase Course, 6-9" Depth.....	5.94	
32 01 16 73 In Place Cold Reused Asphalt Paving <small>(32 01 16)</small>						
32 01 16 73-0001 Cold-In-Place-Full Depth Reclamation With Foam Asphalt (FDR-FA) <small>(32 01 16 73)</small>						
Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.						
				32 01 16 73-0002 SF Up To 30,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	3.78	
				For >12" To 18" Depth, Add	1.28	
				32 01 16 73-0003 SF >30,000 To 42,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	3.52	
				For >12" To 18" Depth, Add	1.20	
				32 01 16 73-0004 SF >42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	2.95	
				For >12" To 18" Depth, Add	1.03	
				32 01 16 73-0005 SF >71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	2.53	
				For >12" To 18" Depth, Add	0.90	
				32 01 16 73-0006 SF >130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	2.25	
				For >12" To 18" Depth, Add	0.82	
				32 01 16 73-0007 SF >250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	2.08	
				For >12" To 18" Depth, Add	0.77	
				32 01 16 73-0008 SF >500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	1.95	
				For >12" To 18" Depth, Add	0.73	
32 01 16 73-0009 Cold-In-Place-Full Depth Reclamation Process With Cement (FDR-C) <small>(32 01 16 73)</small>						
Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.						
				32 01 16 73-0010 SF Up To 30,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	4.05	
				For >12" To 18" Depth, Add	1.41	
				32 01 16 73-0011 SF >42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	3.22	
				For >12" To 18" Depth, Add	1.16	
				32 01 16 73-0012 SF >71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	2.80	
				For >12" To 18" Depth, Add	1.04	
				32 01 16 73-0013 SF >130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	2.52	
				For >12" To 18" Depth, Add	0.95	
				32 01 16 73-0014 SF >250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	2.35	
				For >12" To 18" Depth, Add	0.90	

32 Exterior Improvements**32 01 Operation And Maintenance Of Exterior Improvements****32 01 16 Flexible Paving Rehabilitation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 73-0015 SF >500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) For >12" To 18" Depth, Add	2.22	0.86
32 01 16 73-0016 Supplemental Aggregate (32 01 16 73)		
32 01 16 73-0017 TON Supplemental Aggregate	45.62	
32 01 16 73-0018 Cold-In-Place Recycling (CALTRAN) (32 01 16 73)		
32 01 16 73-0019 TON Sand Cover (CIPR)	58.00	
For >500 To 1,000, Deduct	-1.45	
For >1,000 To 2,500, Deduct	-2.90	
For >2,500 To 5,000, Deduct	-4.06	
For >5,000, Deduct	-5.22	
32 01 16 73-0020 SY Cold In Place Recycling (CIPR)	6.50	
For >10,000 To 25,000, Deduct	-0.65	
For >25,000, Deduct	-0.98	
32 01 16 73-0021 TON Cement (CIPR)	135.00	
For >500 To 1,000, Deduct	-3.38	
For >1,000 To 2,500, Deduct	-6.75	
For >2,500 To 5,000, Deduct	-9.45	
For >5,000, Deduct	-12.15	
32 01 16 73-0022 TON Emulsified Recycling Agent (CIPR)	610.00	
For >500 To 1,000, Deduct	-15.25	
For >1,000 To 2,500, Deduct	-30.50	
For >2,500 To 5,000, Deduct	-42.70	
For >5,000, Deduct	-54.90	
32 01 16 73-0023 TON Asphaltic Emulsion (CIPR)	610.00	
For >500 To 1,000, Deduct	-15.25	
For >1,000 To 2,500, Deduct	-30.50	
For >2,500 To 5,000, Deduct	-42.70	
For >5,000, Deduct	-54.90	
32 01 16 74 In Place Hot Reused Asphalt Paving (32 01 16)		
32 01 16 74-0001 Reclamation, Pulverize And Blending With Existing (32 01 16 74)		
Note: Includes direct loading into truck.		
32 01 16 74-0002 SY Up To 2" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	12.04	
32 01 16 74-0003 SY Up To 2" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	6.02	
32 01 16 74-0004 SY Up To 2" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.01	
32 01 16 74-0005 SY Up To 2" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	2.85	
32 01 16 74-0006 SY >2" To 3" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.29	
32 01 16 74-0007 SY >2" To 3" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	13.13	
32 01 16 74-0008 SY >2" To 3" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	6.57	
32 01 16 74-0009 SY >2" To 3" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.09	
32 01 16 74-0010 SY >3" To 4" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	14.45	
32 01 16 74-0011 SY >3" To 4" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	7.23	
32 01 16 74-0012 SY >3" To 4" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.61	
32 01 16 74-0013 SY >3" To 4" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.34	
32 01 16 74-0014 SY >4" To 8" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	15.76	
32 01 16 74-0015 SY >4" To 8" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	7.88	
32 01 16 74-0016 SY >4" To 8" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.94	
32 01 16 74-0017 SY >4" To 8" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.68	
32 01 16 74-0018 EA Mobilization And Demobilization For Reclamation, Pulverizing And Blending Crew	1,354.70	
32 01 16 74-0019 Rejuvenate, Respread Asphalt Pavement (32 01 16 74)		
Note: Includes direct loading into truck.		
32 01 16 74-0020 SY Remove, Rejuvenate, Respread Asphalt Grindings To 1/2" Deep	9.96	
32 01 16 74-0021 SY Remove, Rejuvenate, Respread Asphalt Grindings To 1/2" Deep, Previously Sealed Cold Tar	11.93	
32 01 16 74-0022 TON Remove, Rejuvenate, Respread Asphalt Grindings	154.25	
32 01 17 Flexible Paving Repair (32 01)		
See CSI section 32 12 16 00-0000 for large area resurfacing.		
32 01 17 61 Sealing Cracks In Asphalt Paving (32 01 17)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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Note: Includes removing loose materials and cleaning.

32 01 17 61-0001 Hot-Applied, Pourable, Self-Adhesive Asphalt Binder Compounded With Standard Weight Aggregate Longitudinal Crack And Sealing Repair (32 01 17 61)

Note: Includes sweeping and cleaning of area.

32 01 17 61-0002	LF	Up To 200 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.28	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	0.34	
		For 1" x 1/2" Fill, Add	0.63	
		For Backer Rod, Add	0.71	
32 01 17 61-0003	LF	>200 To 500 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.04	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	0.28	
		For 1" x 1/2" Fill, Add	0.52	
		For Backer Rod, Add	0.65	
32 01 17 61-0004	LF	>500 To 2,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	0.83	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	0.23	
		For 1" x 1/2" Fill, Add	0.43	
		For Backer Rod, Add	0.59	
32 01 17 61-0005	LF	>2,000 To 5,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	0.71	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	0.20	
		For 1" x 1/2" Fill, Add	0.37	
		For Backer Rod, Add	0.56	
32 01 17 61-0006	LF	>5,000 To 10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	0.64	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	0.18	
		For 1" x 1/2" Fill, Add	0.33	
		For Backer Rod, Add	0.53	
32 01 17 61-0007	LF	>10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	0.58	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	0.16	
		For 1" x 1/2" Fill, Add	0.30	
		For Backer Rod, Add	0.50	
32 01 17 61-0008	LF	Up To 200 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	2.34	
		For 3/8" x 1/4" Fill, Add	0.51	
		For 1/2" x 1/4" Fill, Add	0.92	
		For 1/2" x 1/2" Fill, Add	2.11	
32 01 17 61-0009	LF	>200 To 500 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.88	
		For 3/8" x 1/4" Fill, Add	0.42	
		For 1/2" x 1/4" Fill, Add	0.76	
		For 1/2" x 1/2" Fill, Add	1.74	
32 01 17 61-0010	LF	>500 To 2,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.44	
		For 3/8" x 1/4" Fill, Add	0.32	
		For 1/2" x 1/4" Fill, Add	0.59	
		For 1/2" x 1/2" Fill, Add	1.38	
32 01 17 61-0011	LF	>2,000 To 5,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.27	
		For 3/8" x 1/4" Fill, Add	0.29	
		For 1/2" x 1/4" Fill, Add	0.53	
		For 1/2" x 1/2" Fill, Add	1.24	
32 01 17 61-0012	LF	>5,000 To 10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.16	
		For 3/8" x 1/4" Fill, Add	0.26	
		For 1/2" x 1/4" Fill, Add	0.48	
		For 1/2" x 1/2" Fill, Add	1.11	
32 01 17 61-0013	LF	>10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.06	
		For 3/8" x 1/4" Fill, Add	0.24	
		For 1/2" x 1/4" Fill, Add	0.43	
		For 1/2" x 1/2" Fill, Add	1.00	
32 01 17 61-0014	LF	For Routing And Cleaning Of Crack, Add Per 1/2" Depth.....	0.43	
32 01 17 61-0015	LNMI	Crack Seal/Filler Per Lane (10' to 12' Wide) Per Mile.....	2,927.34	
		Note: This work shall consist of removal of loose matter from cracks with brooms and compressed air and sealing the crack with rubber or other elastomeric modified asphalt, ASTM D 1190, D 3405 or AASHTO M-173. The sealant shall be applied from the bottom of the crack up and the sealant material shall be sprinkled with dry sand to prevent pick-up by traffic.		

32 01 17 63 Pavement Repair (32 01 17)

32 01 17 63-0001 Temporary Pot Hole Repair (32 01 17 63)

Note: Includes removal of loose material and moisture, bonding agent, compaction, safety cones and hauling up to 15 miles. Excludes signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0051 for hauling greater than 15 miles.

32 01 17 63-0002	EA	Temporary Pot Hole Repairs With Cold Mix Modified, Up To 3 Tons.....	1,448.18
32 01 17 63-0003	TON	Temporary Pot Hole Repairs With Cold Mix Modified.....	440.82
		Note: Use for each ton over 3 tons.	
32 01 17 63-0004	EA	Temporary Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,373.66
32 01 17 63-0005	TON	Temporary Pot Hole Repairs With Cold Mix.....	415.98
		Note: Use for each ton over 3 tons.	
32 01 17 63-0006	EA	Temporary Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons.....	1,336.40
32 01 17 63-0007	TON	Temporary Pot Hole Repairs With Hot Mix Modified.....	403.56
		Note: Use for each ton over 3 tons.	
32 01 17 63-0008	EA	Temporary Pot Hole Repairs With Hot Mix, Up To 3 Tons.....	1,299.14
32 01 17 63-0009	TON	Temporary Pot Hole Repairs With Hot Mix.....	391.14
		Note: Use for each ton over 3 tons.	

32 Exterior Improvements**32 01 Operation And Maintenance Of Exterior Improvements****32 01 17 Flexible Paving Repair**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 63-0010 Permanent Pot Hole Repair <small>(32 01 17 63)</small>		
Note: Includes removal of loose material and moisture, saw cutting, chipping, squaring off, bonding agent, compaction and hauling up to 15 miles Tasks do not include signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0051 for hauling greater than 15 miles.		
32 01 17 63-0011 EA Permanent Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,517.36	
32 01 17 63-0012 TON Permanent Pot Hole Repairs With Cold Mix.....	493.88	
Note: Use for each ton over 3 tons.		
32 01 17 63-0013 EA Permanent Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons.....	1,480.10	
32 01 17 63-0014 TON Permanent Pot Hole Repairs With Hot Mix Modified.....	481.46	
Note: Use for each ton over 3 tons.		
32 01 17 63-0015 EA Permanent Pot Hole Repairs With Hot Mix, Up To 3 Tons.....	1,442.84	
32 01 17 63-0016 TON Permanent Pot Hole Repairs With Hot Mix.....	469.04	
Note: Use for each ton over 3 tons.		
32 01 17 63-0017 Asphalt Placement For Small Repairs <small>(32 01 17 63)</small>		
Note: This section is used for placing up to 100 tons of asphalt after a small area of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc. Includes mobilization of paving equipment such as a roller, placing the asphalt, compaction and hauling up to 15 miles. Excludes saw cutting, demolition of existing pavement, and new subbase material. Use approximately 0.055 tons per square yard per inch of depth. See CSI section 02 41 19 13-0056 for saw cutting, 32 12 16 13-0000 for areas requiring more than 100 tons.		
32 01 17 63-0018 EA Asphalt Placement For Small Repair Areas, Cold Mix Modified, Up To 3 Tons.....	1,977.71	
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0019 TON Asphalt Placement For Small Repair Areas, Cold Mix Modified.....	273.46	
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0020 EA Asphalt Placement For Small Repair Areas, Cold Mix, Up To 3 Tons.....	1,903.19	
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0021 TON Asphalt Placement For Small Repair Areas, Cold Mix.....	248.62	
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0022 EA Asphalt Placement For Small Repair Areas, Hot Mix Modified, Up To 3 Tons.....	1,865.93	
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0023 TON Asphalt Placement For Small Repair Areas, Hot Mix Modified.....	236.20	
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0024 EA Asphalt Placement For Small Repair Areas, Hot Mix, Up To 3 Tons.....	1,828.67	
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0025 TON Asphalt Placement For Small Repair Areas, Hot Mix.....	223.78	
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0026 Grind Asphalt <small>(32 01 17 63)</small>		
32 01 17 63-0027 SY Grinding Asphalt To Level Bump Or Raised Area.....	17.47	
32 01 26 Rigid Paving Rehabilitation <small>(32 01)</small>		
32 01 26 71 Grooving Of Concrete Paving <small>(32 01 26)</small>		
32 01 26 71-0001 Roadway Grooving <small>(32 01 26 71)</small>		
32 01 26 71-0002 EA First 500 SY Of Pavement Grooving, Concrete, Longitudinal.....	3,088.71	
32 01 26 71-0003 SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Longitudinal.....	2.86	
32 01 26 71-0004 EA First 500 SY Of Pavement Grooving, Concrete, Traverse.....	3,440.93	
32 01 26 71-0005 SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Traverse.....	3.73	
32 01 26 71-0006 Rumble Strips <small>(32 01 26 71)</small>		
32 01 26 71-0007 EA First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	3,524.97	
32 01 26 71-0008 LF Each LF Over First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	0.64	
<i>For > 52500, Deduct</i>		
	-0.10	
32 01 26 71-0009 EA First 2000 LF Of MIARDS, Rumble Strips, Concrete.....	3,928.26	
32 01 26 71-0010 LF Each LF Over First 2000 LF Of MIARDS, Rumble Strips, Concrete.....	0.72	
<i>For > 20000, Deduct</i>		
	-0.09	
32 01 26 71-0011 Boat Ramps Grooving <small>(32 01 26 71)</small>		
32 01 26 71-0012 SY Concrete Grooving, Boat Ramps.....	1.62	
32 01 90 Operation And Maintenance Of Planting <small>(32 01)</small>		
Note: These tasks are to be used as requested by the owner to maintain existing conditions.		
32 01 90 13 Fertilizing <small>(32 01 90)</small>		
32 01 90 13-0001 MSF Fertilizer - 2 LB Of Nitrogen/MSF (Granular).....	10.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 13-0002 MSF Fertilizer - 2 LB Of Nitrogen/MSF (Liquid).....	8.51	
32 01 90 13-0003 MSF Fertilizer - 0.5 LB Of Nitrogen/MSF (Granular)	9.15	
32 01 90 13-0004 MSF Fertilizer - 0.5 LB Of Nitrogen/MSF (Liquid).....	7.73	
 32 01 90 19 Mowing (32 01 90)		
32 01 90 19-0001 ACR Vegetation Cutting By Bush Hog	161.24	
Note: Includes normal debris removal, cutting, and trimming.		
For <1 Acre, Add	40.31	
32 01 90 19-0002 MSF Mowing Vegetation With Riding Mower, >20,000 To 45,000 SF.....	5.56	
For Light Brush Areas, Deduct	-0.83	
For Heavy Brush Areas, Add	1.11	
32 01 90 19-0003 MSF Mowing Vegetation With Riding Mower, >45,000 SF.....	4.30	
For Light Brush Areas, Deduct	-0.65	
For Heavy Brush Areas, Add	0.86	
32 01 90 19-0004 MSF Clear Vegetation With Weed Trimmer, Up To 1,000 SF.....	19.63	
For Light Brush Areas, Deduct	-2.94	
For Heavy Brush Areas, Add	3.93	
For Work On Slopes >2:1, Add	4.91	
For Clearing Light Brush, Add	2.94	
32 01 90 19-0005 MSF Clear Vegetation With Weed Trimmer, >1,000 SF.....	16.49	
For Light Brush Areas, Deduct	-2.47	
For Heavy Brush Areas, Add	3.30	
For Work On Slopes >2:1, Add	4.12	
For Clearing Light Brush, Add	2.47	
32 01 90 19-0006 MSF Blow Or Vacuum Dispersed Non-Native Seed After Bulk Of Biomass Removed	16.39	
For Light Brush Areas, Deduct	-2.46	
For Heavy Brush Areas, Add	3.28	
 32 01 90 23 Pruning (32 01 90)		
32 01 90 23-0001 Tree Pruning (32 01 90 23)		
Note: Types of pruning for mature trees (these standards are established by the ISA - International Society of Arboriculture) 1. CROWN CLEANING - Crown cleaning or cleaning out is the removal of dead, dying, diseased, crowded, weakly attached, and low-vigor branches and waterspouts from a tree crown. 2. CROWN THINNING - Crown thinning includes crown cleaning and the selective removal of branches to increase light penetration and air movement into the crown. Increased light and air stimulates and maintains interior foliage, which in turn improves branch taper and strength. Thinning reduces the wind-sail effect of the crown and the weight of the heavy limbs. Thinning the crown can emphasize the structural beauty of the trunk and branches as well as improve the growth of plants beneath the tree by increasing light penetration. When thinning the crown of mature trees, seldom should more than one-third of the live foliage be removed. At least one-half of the foliage should be on branches that arise in the lower two-thirds of the trees. Likewise, when thinning laterals from a limb, an effort should be made to retain inner lateral branches and leave the same distribution of foliage along the branch. Trees and branches so pruned will have stress more evenly distributed throughout the tree or along a branch. 3. CROWN RAISING - Crown raising removes the lower branches of a tree in order to provide clearance for buildings, vehicles, pedestrians, and vistas. It is important that a tree have at least one-half of its foliage on branches that originate in the lower two-thirds of its trunk to ensure a well-formed, tapered structure and to uniformly distribute stress within a tree. When pruning for view, it is preferable to develop "windows" through the foliage of the tree, rather than to severely raise or reduce the crown. 4. CROWN REDUCTION - Crown reduction is used to reduce the height and/or spread of a tree. Thinning cuts are most effective in maintaining the structural integrity and natural form of a tree and in delaying the time when it will need to be pruned again. The lateral to which a branch or trunk is cut should be at least one-half the diameter of the cut being made. 5. CROWN RESTORATION - Crown restoration can improve the structure and appearance of trees that have been topped or severely pruned using heading cuts. One to three sprouts on main branch stubs should be selected to reform a more natural appearing crown. Selected vigorous sprouts may need to be thinned to a lateral, or even headed, to control length growth in order to ensure adequate attachment for the size of the sprout. Restoration may require several pruning's over a number of years. Includes loading onto truck or dumpster.		
32 01 90 23-0002 EA Tree Pruning (Crown Cleaning), 1-1/2" Caliper	25.03	
For Crown Thinning, Tree Pruning, Add	5.63	
For Crown Raising, Pruning, Add	8.76	
For Crown Reduction, Tree Pruning, Add	11.26	
For Crown Restoration, Pruning, Add	16.69	
32 01 90 23-0003 EA Tree Pruning (Crown Cleaning), 2" Caliper.....	28.60	
For Crown Thinning, Tree Pruning, Add	6.44	
For Crown Raising, Pruning, Add	10.01	
For Crown Reduction, Tree Pruning, Add	12.87	
For Crown Restoration, Pruning, Add	19.07	
32 01 90 23-0004 EA Tree Pruning (Crown Cleaning), 2-1/2" Caliper	32.18	
For Crown Thinning, Tree Pruning, Add	7.24	
For Crown Raising, Pruning, Add	11.26	
For Crown Reduction, Tree Pruning, Add	14.48	
For Crown Restoration, Pruning, Add	21.45	
32 01 90 23-0005 EA Tree Pruning (Crown Cleaning), 3" Caliper.....	35.76	
For Crown Thinning, Tree Pruning, Add	8.05	
For Crown Raising, Pruning, Add	12.52	
For Crown Reduction, Tree Pruning, Add	16.09	
For Crown Restoration, Pruning, Add	23.84	
32 01 90 23-0006 EA Tree Pruning (Crown Cleaning), 4" Caliper, By Hand.....	54.33	
For Crown Thinning, Tree Pruning, Add	12.22	
For Crown Raising, Pruning, Add	19.02	
For Crown Reduction, Tree Pruning, Add	24.45	
For Crown Restoration, Pruning, Add	36.22	

32 Exterior Improvements**32 01 Operation And Maintenance Of Exterior Improvements****32 01 90 Operation And Maintenance Of Planting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0007 EA Tree Pruning (Crown Cleaning), 4" Caliper, Aerial Lift Equipment.....	89.19	
For Crown Thinning, Tree Pruning, Add	20.07	
For Crown Raising, Pruning, Add	31.22	
For Crown Reduction, Tree Pruning, Add	40.14	
For Crown Restoration, Pruning, Add	59.46	
32 01 90 23-0008 EA Tree Pruning (Crown Cleaning), 6" Caliper, By Hand.....	95.09	
For Crown Thinning, Tree Pruning, Add	21.40	
For Crown Raising, Pruning, Add	33.28	
For Crown Reduction, Tree Pruning, Add	42.79	
For Crown Restoration, Pruning, Add	63.40	
32 01 90 23-0009 EA Tree Pruning (Crown Cleaning), 6" Caliper, Aerial Lift Equipment.....	169.89	
For Crown Thinning, Tree Pruning, Add	38.23	
For Crown Raising, Pruning, Add	59.46	
For Crown Reduction, Tree Pruning, Add	76.45	
For Crown Restoration, Pruning, Add	113.27	
32 01 90 23-0010 EA Tree Pruning (Crown Cleaning), 9" Caliper, By Hand.....	152.26	
For Crown Thinning, Tree Pruning, Add	34.26	
For Crown Raising, Pruning, Add	53.29	
For Crown Reduction, Tree Pruning, Add	68.52	
For Crown Restoration, Pruning, Add	101.51	
32 01 90 23-0011 EA Tree Pruning (Crown Cleaning), 9" Caliper, Aerial Lift Equipment.....	271.75	
For Crown Thinning, Tree Pruning, Add	61.14	
For Crown Raising, Pruning, Add	95.11	
For Crown Reduction, Tree Pruning, Add	122.29	
For Crown Restoration, Pruning, Add	181.18	
32 01 90 23-0012 EA Tree Pruning (Crown Cleaning), 12" Caliper, By Hand.....	175.95	
For Crown Thinning, Tree Pruning, Add	39.59	
For Crown Raising, Pruning, Add	61.58	
For Crown Reduction, Tree Pruning, Add	79.18	
For Crown Restoration, Pruning, Add	117.31	
32 01 90 23-0013 EA Tree Pruning (Crown Cleaning), 12" Caliper, Aerial Lift Equipment.....	314.26	
For Crown Thinning, Tree Pruning, Add	70.71	
For Crown Raising, Pruning, Add	109.99	
For Crown Reduction, Tree Pruning, Add	141.42	
For Crown Restoration, Pruning, Add	209.52	
32 01 90 23-0014 EA Tree Pruning (Crown Cleaning), 18" Caliper By Hand.....	204.53	
For Crown Thinning, Tree Pruning, Add	46.02	
For Crown Raising, Pruning, Add	71.59	
For Crown Reduction, Tree Pruning, Add	92.04	
For Crown Restoration, Pruning, Add	136.36	
32 01 90 23-0015 EA Tree Pruning (Crown Cleaning), 18" Caliper By Hand, Aerial Lift Equipment.....	365.23	
For Crown Thinning, Tree Pruning, Add	82.18	
For Crown Raising, Pruning, Add	127.83	
For Crown Reduction, Tree Pruning, Add	164.35	
For Crown Restoration, Pruning, Add	243.50	
32 01 90 23-0016 EA Tree Pruning (Crown Cleaning), 24" Caliper, By Hand.....	248.96	
For Crown Thinning, Tree Pruning, Add	56.02	
For Crown Raising, Pruning, Add	87.14	
For Crown Reduction, Tree Pruning, Add	112.03	
For Crown Restoration, Pruning, Add	165.98	
32 01 90 23-0017 EA Tree Pruning (Crown Cleaning), 24" Caliper, Aerial Lift Equipment.....	441.74	
For Crown Thinning, Tree Pruning, Add	99.39	
For Crown Raising, Pruning, Add	154.61	
For Crown Reduction, Tree Pruning, Add	198.78	
For Crown Restoration, Pruning, Add	294.51	
32 01 90 23-0018 EA Tree Pruning (Crown Cleaning), 30" Caliper, By Hand.....	309.27	
For Crown Thinning, Tree Pruning, Add	69.59	
For Crown Raising, Pruning, Add	108.24	
For Crown Reduction, Tree Pruning, Add	139.17	
For Crown Restoration, Pruning, Add	206.19	
32 01 90 23-0019 EA Tree Pruning (Crown Cleaning), 30" Caliper, Aerial Lift Equipment.....	556.73	
For Crown Thinning, Tree Pruning, Add	125.26	
For Crown Raising, Pruning, Add	194.86	
For Crown Reduction, Tree Pruning, Add	250.53	
For Crown Restoration, Pruning, Add	371.17	
32 01 90 23-0020 EA Tree Pruning (Crown Cleaning), 36" Caliper, By Hand.....	423.60	
For Crown Thinning, Tree Pruning, Add	95.31	
For Crown Raising, Pruning, Add	148.26	
For Crown Reduction, Tree Pruning, Add	190.62	
For Crown Restoration, Pruning, Add	282.41	
32 01 90 23-0021 EA Tree Pruning (Crown Cleaning), 36" Caliper, Aerial Lift Equipment.....	754.56	
For Crown Thinning, Tree Pruning, Add	169.78	
For Crown Raising, Pruning, Add	264.10	
For Crown Reduction, Tree Pruning, Add	339.55	
For Crown Restoration, Pruning, Add	503.07	
32 01 90 23-0022 EA Tree Pruning (Crown Cleaning), 48" Caliper, By Hand.....	672.02	
For Crown Thinning, Tree Pruning, Add	151.20	
For Crown Raising, Pruning, Add	235.21	
For Crown Reduction, Tree Pruning, Add	302.41	
For Crown Restoration, Pruning, Add	448.04	
32 01 90 23-0023 EA Tree Pruning (Crown Cleaning), 48" Caliper, Aerial Lift Equipment.....	1,213.45	
For Crown Thinning, Tree Pruning, Add	273.03	
For Crown Raising, Pruning, Add	424.71	
For Crown Reduction, Tree Pruning, Add	546.05	
For Crown Restoration, Pruning, Add	809.01	
32 01 90 23-0024 EA Trim Mexican Palm Tree.....	75.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0025 EA Trim Date Palm Tree	171.06	
32 01 90 23-0026 LF Skin Palm Tree	19.44	
32 01 90 23-0027 Shrub Pruning (32 01 90 23)		
32 01 90 23-0028 MSF Shrub Pruning, Prune, Shrub Bed	81.47	
32 01 90 23-0029 EA Shrub Pruning, Prune, Shrub Under 3' Height.....	2.86	
32 01 90 23-0030 EA Shrub Pruning, Prune, Shrub 4' Height.....	6.43	
32 01 90 23-0031 EA Shrub Pruning, Prune, Shrub Over 6'	11.44	
32 01 90 23-0032 EA Shrub Pruning, Prune Trees From Ground.....	28.60	
32 01 90 23-0033 EA Shrub Pruning, Prune Trees From Ground, High Work.....	71.50	
32 01 90 23-0034 Root Pruning (32 01 90 23)		
Note: Cut roots cleanly after excavation with clean, sharp tools, to promote callus formation and wound closure. Wounds to be dressed with a tree rooting hormone compound. Mix soil improvements (e.g., peat moss) with fill soil to promote new root growth. Backfill the excavation and water the soil around the roots to avoid leaving air pockets.		
32 01 90 23-0035 EA Root Pruning, One Side Of Up To 1-1/2" Caliper Tree	14.30	
32 01 90 23-0036 EA Root Pruning, One Side Of 2" Caliper Tree	17.88	
32 01 90 23-0037 EA Root Pruning, One Side Of 2-1/2" Caliper Tree	21.45	
32 01 90 23-0038 EA Root Pruning, One Side Of 3" Caliper Tree	28.60	
32 01 90 23-0039 EA Root Pruning, One Side Of 4" Caliper Tree	42.90	
32 01 90 23-0040 EA Root Pruning, One Side Of 6" Caliper Tree	53.62	
32 01 90 23-0041 EA Root Pruning, One Side Of 9" Caliper Tree	75.08	
32 01 90 23-0042 EA Root Pruning, One Side Of 12" Caliper Tree	85.80	
32 01 90 23-0043 EA Root Pruning, One Side Of 18" Caliper Tree	100.11	
32 01 90 23-0044 EA Root Pruning, One Side Of 24" Caliper Tree	125.12	
32 01 90 23-0045 EA Root Pruning, One Side Of 30" Caliper Tree	153.73	
32 01 90 23-0046 EA Root Pruning, One Side Of 36" Caliper Tree	178.76	
32 01 90 23-0047 EA Root Pruning, One Side Of 48" Caliper Tree	214.50	
32 01 90 26 Watering (32 01 90)		
Note: Includes delivered water. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant.		
32 01 90 26-0001 Watering Lawns, Plants And Trees (32 01 90 26)		
Note: Includes delivered water and watering truck. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant. These tasks are to be used as requested by the owner for extended watering period for lawns, plants and trees.		
32 01 90 26-0002 MSF Watering Sod/Grass, Per Inch Of Water.....	34.29	
32 01 90 26-0003 CSF Watering Groundcover.....	5.39	
32 01 90 26-0004 CSF Watering Annuals And Perennials	9.65	
32 01 90 26-0005 EA Watering Trees, 1-1/2" To 5" Diameter By Hand.....	18.91	
32 01 90 26-0006 EA Watering Trees, 6" To 12" Diameter By Hand	24.85	
32 01 90 26-0007 EA Watering Trees, 13" To 18" Diameter By Hand	30.78	
32 01 90 26-0008 EA Watering Trees, >18" Diameter By Hand.....	37.90	
32 01 90 26-0009 EA Watering Shrub Or Bush By Hand.....	9.49	
32 01 90 36 Weed And Brush Control (32 01 90)		
32 01 90 36-0001 Herbicide, Push Or Hand Spreader Applied (32 01 90 36)		
32 01 90 36-0002 MSF Non-Selective Post Emergent Weed Herbicide (70.4 oz/acre or 1.62 oz/MSF).....	6.44	
For >45 To 90, Deduct	-0.34	
For >90 To 225, Deduct	-0.99	
For >225 To 870, Deduct	-1.63	
For >870, Deduct	-1.98	
32 01 90 36-0003 MSF Non-Selective Post Emergent Woody Brush And Tree Herbicide (128 oz/acre or 2.94 oz/MSF)	6.80	
For >45 To 90, Deduct	-0.38	
For >90 To 225, Deduct	-1.06	
For >225 To 870, Deduct	-1.74	
For >870, Deduct	-2.12	
32 01 90 36-0004 MSF Selective Weed Herbicide (56 oz/Acre or 1.28 oz/MSF)	6.78	
Note: Includes pre and post emergent.		
For >45 To 90, Deduct	-0.38	
For >90 To 225, Deduct	-1.06	
For >225 To 870, Deduct	-1.73	
For >870, Deduct	-2.11	
32 01 90 36-0005 MSF Selective Woody Brush And Tree Herbicide (72 oz/acre or 1.65 oz/MSF)	7.01	
Note: Includes pre and post emergents.		
For >45 To 90, Deduct	-0.40	
For >90 To 225, Deduct	-1.10	
For >225 To 870, Deduct	-1.80	
For >870, Deduct	-2.21	
32 01 90 39 Pesticides (32 01 90)		
32 01 90 39-0001 MSF Pesticide - Surface Eating.....	8.68	
32 01 90 39-0002 MSF Pesticide - Subsurface Eating.....	8.69	
32 01 90 39-0003 MSF Pesticide - Fungicide Application	9.03	

32 Exterior Improvements**32 01 Operation And Maintenance Of Exterior Improvements****32 01 90 Operation And Maintenance Of Planting**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**32 01 90 43 Weed And Cultivate (32 01 90)**

32 01 90 43-0001	MSF	Weed Mulched Bed.....	35.06
32 01 90 43-0002	MSF	Weed Unmulched Bed.....	100.17
32 01 90 43-0003	MSF	Cultivate Bed.....	53.94

32 01 90 46 Hedge Trimming (32 01 90)

32 01 90 46-0001	LF	Trim 0-5' High Hedge, 0-3' Wide.....	4.63
32 01 90 46-0002	LF	Trim 0-5' High Hedge, 4-6' Wide.....	6.93
32 01 90 46-0003	LF	Trim 5-10' High Hedge, 0-3' Wide.....	10.50
32 01 90 46-0004	LF	Trim 5-10' High Hedge, 4-6' Wide.....	10.70

32 01 90 53 Plant Growth Regulator Application (32 01 90)

32 01 90 53-0001	EA	Plant Growth Regulator Application.....	4.28
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32 10 Bases, Ballasts, And Paving (32)**32 11 Base Courses (32 10)****32 11 16 Subbase Courses (32 11)****32 11 16 16 Aggregate Subbase Courses (32 11 16)****32 11 16 16-0001 Base And Subbase Courses For Roadways And Parking Areas (32 11 16 16)**

Note: Includes 3/4" To 1-1/2" aggregate material, hauling up to 15 miles, dumping, spreading, grading, compacting and watering. See CSI section 01 74 19 00-0051 for hauling greater than 15 miles.

32 11 16 16-0002 Base And Subbase Courses By The CY (32 11 16 16-0001)

32 11 16 16-0003	CY	Class II Graded Crushed Aggregate Roadway Base Course.....	64.17
32 11 16 16-0004	CY	Class III Graded Crushed Aggregate Roadway Base Course.....	62.31
32 11 16 16-0005	CY	Recycled Base Course.....	59.26

32 11 16 16-0006 Class II Base Courses By The SY (32 11 16 16-0001)

32 11 16 16-0007	SY	2" Class II Graded Crushed Aggregate Base Course.....	3.56
		For Up To 500, Add	0.96
		For >500 To 1,000, Add	0.36
		For >5,000 To 10,000, Deduct	-0.14
		For >10,000, Deduct	-0.23
32 11 16 16-0008	SY	4" Class II Crushed Aggregate Base Course.....	7.12
		For Up To 500, Add	1.91
		For >500 To 1,000, Add	0.71
		For >5,000 To 10,000, Deduct	-0.27
		For >10,000, Deduct	-0.46
32 11 16 16-0009	SY	6" Class II Crushed Aggregate Base Course.....	10.68
		For Up To 500, Add	2.87
		For >500 To 1,000, Add	1.07
		For >5,000 To 10,000, Deduct	-0.41
		For >10,000, Deduct	-0.69
32 11 16 16-0010	SY	9" Class II Crushed Aggregate Base Course.....	16.04
		For Up To 500, Add	4.30
		For >500 To 1,000, Add	1.60
		For >5,000 To 10,000, Deduct	-0.61
		For >10,000, Deduct	-1.04
32 11 16 16-0011	SY	12" Class II Crushed Aggregate Base Course.....	21.39
		For Up To 500, Add	5.74
		For >500 To 1,000, Add	2.14
		For >5,000 To 10,000, Deduct	-0.81
		For >10,000, Deduct	-1.39

32 11 23 Aggregate Base Courses (32 11)**32 11 23 16 Aggregate Base Courses (32 11 23)****32 11 23 16-0001 Base Courses For Sidewalk (Asphalt Or Concrete) (32 11 23 16)**

Note: Includes material, hauling up to 15 miles, placement, spreading, grading, and compaction. See CSI section 01 74 19 00-0051 for hauling greater than 15 miles.

32 11 23 16-0002	SF	2" Crushed Aggregate Base Course For Sidewalks.....	0.43
		For Up To 1,000, Add	0.12
		For >1,000 To 2,500, Add	0.04
32 11 23 16-0003	SF	3" Crushed Aggregate Base Course For Sidewalks.....	0.62
		For Up To 1,000, Add	0.18
		For >1,000 To 2,500, Add	0.06
32 11 23 16-0004	SF	4" Crushed Aggregate Base Course For Sidewalks.....	0.80
		For Up To 1,000, Add	0.23
		For >1,000 To 2,500, Add	0.08
32 11 23 16-0005	SF	5" Crushed Aggregate Base Course For Sidewalks.....	1.02
		For Up To 1,000, Add	0.29
		For >1,000 To 2,500, Add	0.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 11 23 16-0006 SF 6" Crushed Aggregate Base Course For Sidewalks	1.26	
<i>For Up To 1,000, Add</i>	0.36	
<i>For >1,000 To 2,500, Add</i>	0.13	
32 11 23 16-0007 SF 7" Crushed Aggregate Base Course For Sidewalks	1.45	
<i>For Up To 1,000, Add</i>	0.41	
<i>For >1,000 To 2,500, Add</i>	0.15	
32 11 23 16-0008 SF 8" Crushed Aggregate Base Course For Sidewalks	1.65	
<i>For Up To 1,000, Add</i>	0.47	
<i>For >1,000 To 2,500, Add</i>	0.17	
32 11 26 Asphaltic Base Courses <small>(32 11)</small>		
32 11 26 19 Bituminous-Stabilized Base Courses <small>(32 11 26)</small>		
32 11 26 19-0001 Bituminous-Stabilized Base Courses <small>(32 11 26 19)</small>		
32 11 26 19-0002 CY Bituminous Stabilized Base Course	100.51	
Note: 3/4" ASTM C33.		
32 12 Flexible Paving <small>(32 10)</small>		
32 12 13 Preparatory Coats <small>(32 12)</small>		
32 12 13 13 Tack Coats <small>(32 12 13)</small>		
32 12 13 13-0001 TON Tack Coat (Monterey County)	1,107.83	
32 12 13 19 Prime Coats <small>(32 12 13)</small>		
32 12 13 19-0001 SY Surface Prime Coat, 0.26 Gallon/SY	1.22	
<i>For Up To 150, Add</i>	0.27	
<i>For >150 To 300, Add</i>	0.12	
<i>For >300 To 500, Add</i>	0.06	
<i>For >3,500 To 5,000, Deduct</i>	-0.03	
<i>For >5,000, Deduct</i>	-0.08	
32 12 13 19-0002 SY Surface Prime Coat, 0.28 Gallon/SY	1.28	
<i>For Up To 150, Add</i>	0.29	
<i>For >150 To 300, Add</i>	0.13	
<i>For >300 To 500, Add</i>	0.06	
<i>For >3,500 To 5,000, Deduct</i>	-0.03	
<i>For >5,000, Deduct</i>	-0.09	
32 12 13 19-0003 SY Surface Prime Coat, 0.30 Gallon/SY	1.35	
<i>For Up To 150, Add</i>	0.30	
<i>For >150 To 300, Add</i>	0.14	
<i>For >300 To 500, Add</i>	0.07	
<i>For >3,500 To 5,000, Deduct</i>	-0.03	
<i>For >5,000, Deduct</i>	-0.09	
32 12 16 Asphalt Paving <small>(32 12)</small>		
32 12 16 13 Plant-Mix Asphalt Paving <small>(32 12 16)</small>		
Note: Includes delivery up to 15 miles, placement, rolling, finishing and sweeping. Excludes base, tack or price coat, seal coats and roadway fabrics (where required). See CSI section 01 74 19 00-0051 for hauling greater than 15 miles, 32 11 00 00-0000 for base courses, 32 12 13 13-0000 for tack coats, 32 12 13 19-0000 for prime coats, 32 12 16 39-0000 for roadway fabrics, 32 12 36 00-0000 for seal coats.		
32 12 16 13-0001 Intermediate Binder Courses, Hot Mix Asphalt (HMA) <small>(32 12 16 13)</small>		
Note: Meets Caltrans requirements.		
32 12 16 13-0002 TON Bituminous Hot Mix Intermediate Course 3,954 LB/CY	136.81	
Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
<i>For PG64-10 Asphalt, Add</i>	17.12	
<i>For >500 To 1,000, Deduct</i>	-6.08	
<i>For >1,000 To 2,500, Deduct</i>	-11.01	
<i>For >2,500 To 5,000, Deduct</i>	-17.09	
<i>For >5,000, Deduct</i>	-24.50	
32 12 16 13-0003 SY 1" Thick Bituminous Hot Mix Binder Course	7.91	
Note: Includes placement, rolling, finishing and sweeping.		
<i>For PG64-10 Asphalt, Add</i>	0.94	
<i>For >10,000 To 20,000, Deduct</i>	-0.35	
<i>For >20,000 To 50,000, Deduct</i>	-0.63	
<i>For >50,000 To 100,000, Deduct</i>	-0.98	
<i>For >100,000, Deduct</i>	-1.40	
32 12 16 13-0004 SY 1-1/2" Thick Bituminous Hot Mix Binder Course	11.69	
Note: Includes placement, rolling, finishing and sweeping.		
<i>For PG64-10 Asphalt, Add</i>	1.41	
<i>For >7,000 To 14,000, Deduct</i>	-0.52	
<i>For >14,000 To 32,000, Deduct</i>	-0.94	
<i>For >32,000 To 64,000, Deduct</i>	-1.45	
<i>For >64,000, Deduct</i>	-2.09	

32	Exterior Improvements
32 10	Bases, Ballasts, And Paving
32 12	Flexible Paving



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 12 16 13-0005	SY	2" Thick Bituminous Hot Mix Binder Course	15.45
		Note: Includes placement, rolling, finishing and sweeping.	
		For PG64-10 Asphalt, Add	1.88
		For Up To 500, Add	2.07
		For >500 To 1,000, Add	1.14
		For >5,000 To 10,000, Deduct	-0.68
		For >10,000 To 24,000, Deduct	-1.24
		For >24,000 To 48,000, Deduct	-1.93
		For >48,000, Deduct	-2.77
32 12 16 13-0006	SY	2-1/2" Thick Bituminous Hot Mix Binder Course	18.81
		Note: Includes placement, rolling, finishing and sweeping.	
		For PG64-10 Asphalt, Add	2.35
		For Up To 400, Add	2.45
		For >400 To 800, Add	1.33
		For >4,000 To 8,000, Deduct	-0.85
		For >8,000 To 20,000, Deduct	-1.54
		For >20,000 To 40,000, Deduct	-2.38
		For >40,000, Deduct	-3.42
32 12 16 13-0007	SY	3" Thick Bituminous Hot Mix Binder Course	22.20
		Note: Includes placement, rolling, finishing and sweeping.	
		For PG64-10 Asphalt, Add	2.82
		For Up To 300, Add	2.83
		For >300 To 600, Add	2.48
		For >3,000 To 6,000, Deduct	-1.01
		For >6,000 To 16,000, Deduct	-1.83
		For >16,000 To 32,000, Deduct	-2.84
		For >32,000, Deduct	-4.07
32 12 16 13-0008	SY	3-1/2" Thick Bituminous Hot Mix Binder Course	25.86
		Note: Includes placement, rolling, finishing and sweeping.	
		For PG64-10 Asphalt, Add	3.29
		For Up To 280, Add	3.29
		For >280 To 560, Add	1.78
		For >2,800 To 5,600, Deduct	-1.18
		For >5,600 To 14,000, Deduct	-2.13
		For >14,000 To 28,000, Deduct	-3.31
		For >28,000, Deduct	-4.74
32 12 16 13-0009	SY	4" Thick Bituminous Hot Mix Binder Course	29.60
		Note: Includes placement, rolling, finishing and sweeping.	
		For PG64-10 Asphalt, Add	3.76
		For Up To 250, Add	3.78
		For >250 To 500, Add	2.05
		For >2,500 To 5,000, Deduct	-1.34
		For >5,000 To 12,000, Deduct	-2.44
		For >12,000 To 24,000, Deduct	-3.78
		For >24,000, Deduct	-5.42
32 12 16 13-0010	SY	5" Thick Bituminous Hot Mix Binder Course	36.97
		Note: Includes placement, rolling, finishing and sweeping.	
		For PG64-10 Asphalt, Add	4.70
		For Up To 200, Add	4.71
		For >200 To 400, Add	2.55
		For >2,000 To 4,000, Deduct	-1.68
		For >4,000 To 10,000, Deduct	-3.05
		For >10,000 To 20,000, Deduct	-4.72
		For >20,000, Deduct	-6.77
32 12 16 13-0011	SY	6" Thick Bituminous Hot Mix Binder Course	44.40
		Note: Includes placement, rolling, finishing and sweeping.	
		For PG64-10 Asphalt, Add	5.64
		For Up To 160, Add	5.67
		For >160 To 320, Add	3.07
		For >1,600 To 3,200, Deduct	-2.02
		For >3,200 To 8,000, Deduct	-3.66
		For >8,000 To 16,000, Deduct	-5.67
		For >16,000, Deduct	-8.13

32 12 16 13-0012 Surface Courses, Hot Mix Asphalt (HMA) (32 12 16 13)

Note: Meets Caltrans requirements.

32 12 16 13-0013	TON	Bituminous Hot Mix Surface Course 3954 LB/CY	137.27
		Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.	
		For PG64-10 Asphalt, Add	2.72
		For >500 To 1,000, Deduct	-5.91
		For >1,000 To 2,500, Deduct	-10.73
		For >2,500 To 5,000, Deduct	-16.64
		For >5,000, Deduct	-23.87
32 12 16 13-0014	TON	Tire Rubber Modified Paving Asphalt (TRMAC) Surface Course (MAC-15TR)	151.80
		Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.	
		For Warm Mix Additive, Add	7.72
32 12 16 13-0015	TON	Asphalt Rubberized Hot Mix (ARHM) Surface Course	162.69
		Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.	
		For Warm Mix Additive, Add	8.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0016 SY 1" Thick Bituminous Hot Mix Surface Course .....7.76 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 0.14 For >10,000 To 20,000, Deduct -0.33 For >20,000 To 50,000, Deduct -0.60 For >50,000 To 100,000, Deduct -0.92 For >100,000, Deduct -1.33		
32 12 16 13-0017 SY 1-1/2" Thick Bituminous Hot Mix Surface Course 11.43 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 0.21 For >7,000 To 14,000, Deduct -0.49 For >14,000 To 32,000, Deduct -0.89 For >32,000 To 64,000, Deduct -1.37 For >64,000, Deduct -1.97		
32 12 16 13-0018 SY 2" Thick Bituminous Hot Mix Surface Course 15.06 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 0.29 For Up To 500, Add 2.16 For >500 To 1,000, Add 1.21 For >5,000 To 10,000, Deduct -0.64 For >10,000 To 24,000, Deduct -1.17 For >24,000 To 48,000, Deduct -1.82 For >48,000, Deduct -2.61		
32 12 16 13-0019 SY 2-1/2" Thick Bituminous Hot Mix Surface Course 18.20 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 0.36 For Up To 400, Add 2.53 For >400 To 800, Add 1.40 For >4,000 To 8,000, Deduct -0.79 For >8,000 To 20,000, Deduct -1.44 For >20,000 To 40,000, Deduct -2.23 For >40,000, Deduct -3.21		
32 12 16 13-0020 SY 3" Thick Bituminous Hot Mix Surface Course 21.38 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 0.43 For Up To 300, Add 2.90 For >300 To 600, Add 2.46 For >3,000 To 6,000, Deduct -0.94 For >6,000 To 16,000, Deduct -1.71 For >16,000 To 32,000, Deduct -2.65 For >32,000, Deduct -3.81		
32 12 16 13-0021 CSF Type F Asphalt Surface Cap 1/8" To 1/4" Thick For Use Only On Top Concrete Filled Trench.....55.88		
32 12 16 13-0022 Hand Placed, Hot Mix Asphalt (HMA) (32 12 16 13)		
32 12 16 13-0023 TON Hand Placed Hot Mixed Asphalt 3,954 LB/CY 299.92 Note: For small areas not reachable by machine. Includes placement, rolling, finishing and sweeping.		
32 12 16 19 Cold-Mix Asphalt Paving (32 12 16) Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0001 Cold Mix Asphalt (CMA) Pavement (32 12 16 19) Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0002 SY Cold Laid Asphalt Pavement, Traveling Plant Mixed In Windrows, Compacted 4" Course..... 12.04		
32 12 16 19-0003 SY Cold Laid Asphalt Pavement, Rotary Plant Mixed In Place, Compacted 4" Course 11.78		
32 12 16 19-0004 SY Cold Laid Asphalt Pavement, Central Stationary Plant, Mixed, Compacted 4" Course 19.86		
32 12 16 39 Fabrics (32 12 16) See CSI section 31 32 19 16-0000 for geotextile fabric.		
32 12 16 39-0001 SY 3.6 Oz/SY, 90 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-38A/O) 0.88 For Up To 50, Add 0.21 For >50 To 150, Add 0.15 For >150 To 250, Add 0.10 For >250 To 500, Add 0.05		
32 12 16 39-0002 SY 4.1 Oz/SY, 101 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-42 A/O) 0.94 For Up To 50, Add 0.22 For >50 To 150, Add 0.16 For >150 To 250, Add 0.11 For >250 To 500, Add 0.05		
32 12 16 43 Waterproofing Membranes (32 12 16)		
32 12 16 43-0001 Waterproofing Membranes (32 12 16 43)		
32 12 16 43-0002 SY Up To 500 SY, Preformed Rubberized Asphalt Membrane 31.19		
32 12 16 43-0003 SY >500 To 1,000 SY, Preformed Rubberized Asphalt Membrane 23.58		
32 12 16 43-0004 SY >1,000 SY, Preformed Rubberized Asphalt Membrane 14.97		
32 12 33 Flexible Paving Surface Treatments (32 12)		
32 12 33 00-0001 Bituminous Surface Treatment For Roadways (32 12 33) Note: 0.25 Gal bitumen per SY and 30 lb of gravel/SY.		

32	Exterior Improvements
32 10	Bases, Ballasts, And Paving
32 12	Flexible Paving



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 33 00-0002 SY Single Course Bituminous Treatment, Prepare And Clean Surface Roadway	2.85	
32 12 33 00-0003 SY Double Course Bituminous Treatment, Prepare And Clean Surface Roadway	5.10	
32 12 33 00-0004 Bituminous Surface Treatment For Trails <small>(32 12 33)</small>		
Note: 0.25 Gal bitumen per SY and 20 lb of gravel/SY.		
32 12 33 00-0005 SY Bituminous Surface Treatment, For Trails	2.02	
32 12 36 Seal Coats <small>(32 12)</small>		
See CSI section 32 01 13 62-0000 for slurry seal.		
32 12 36 13 Asphaltic Seal and Fog Coats <small>(32 12 36)</small>		
32 12 36 13-0001 Asphalt Emulsion, Fog Seal (Monterey County) <small>(32 12 36 13)</small>		
32 12 36 13-0002 TON Asphaltic Emulsion, Fog Seal (Monterey County).....	1,042.02	
32 12 36 13-0003 Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13)</small>		
Note: Includes initial sweeping prior to placement, cleaning of area, rolling and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.		
32 12 36 13-0004 Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13-0003)</small>		
Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0005 SY Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.10	
For Each 0.5% Of Latex Addition, Add	0.19	
32 12 36 13-0006 SY >200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	1.96	
For Each 0.5% Of Latex Addition, Add	0.19	
32 12 36 13-0007 SY >500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	1.84	
For Each 0.5% Of Latex Addition, Add	0.19	
32 12 36 13-0008 SY >1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	1.71	
For Each 0.5% Of Latex Addition, Add	0.19	
32 12 36 13-0009 SY >5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	1.65	
For Each 0.5% Of Latex Addition, Add	0.19	
32 12 36 13-0010 SY >10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	1.59	
For Each 0.5% Of Latex Addition, Add	0.19	
32 12 36 13-0011 SY >20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	1.52	
For Each 0.5% Of Latex Addition, Add	0.19	
32 12 36 13-0012 Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13-0003)</small>		
Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 13-0013 SY Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.53	
For Each 0.5% Of Latex Addition, Add	0.23	
32 12 36 13-0014 SY >200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.34	
For Each 0.5% Of Latex Addition, Add	0.23	
32 12 36 13-0015 SY >500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.19	
For Each 0.5% Of Latex Addition, Add	0.23	
32 12 36 13-0016 SY >1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.14	
For Each 0.5% Of Latex Addition, Add	0.23	
32 12 36 13-0017 SY >5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	1.93	
For Each 0.5% Of Latex Addition, Add	0.23	
32 12 36 13-0018 SY >10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	1.82	
For Each 0.5% Of Latex Addition, Add	0.23	
32 12 36 13-0019 SY >20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	1.73	
For Each 0.5% Of Latex Addition, Add	0.23	
32 12 36 13-0020 Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13-0003)</small>		
Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0021 SY Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.96	
For Each 0.5% Of Latex Addition, Add	0.28	
32 12 36 13-0022 SY >200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.71	
For Each 0.5% Of Latex Addition, Add	0.28	
32 12 36 13-0023 SY >500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.52	
For Each 0.5% Of Latex Addition, Add	0.28	
32 12 36 13-0024 SY >1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.31	
For Each 0.5% Of Latex Addition, Add	0.28	
32 12 36 13-0025 SY >5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.20	
For Each 0.5% Of Latex Addition, Add	0.28	
32 12 36 13-0026 SY >10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.02	
For Each 0.5% Of Latex Addition, Add	0.28	
32 12 36 13-0027 SY >20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.03	
For Each 0.5% Of Latex Addition, Add	0.28	
32 12 36 13-0028 Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13-0003)</small>		
Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0029 SY Up To 200 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.01	
For Each 0.5% Of Latex Addition, Add	0.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0030 SY >200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.76	
<i>For Each 0.5% Of Latex Addition, Add</i>	0.32	
32 12 36 13-0031 SY >500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.57	
<i>For Each 0.5% Of Latex Addition, Add</i>	0.32	
32 12 36 13-0032 SY >1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.36	
<i>For Each 0.5% Of Latex Addition, Add</i>	0.32	
32 12 36 13-0033 SY >5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.25	
<i>For Each 0.5% Of Latex Addition, Add</i>	0.32	
32 12 36 13-0034 SY >10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.14	
<i>For Each 0.5% Of Latex Addition, Add</i>	0.32	
32 12 36 13-0035 SY >20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	1.97	
<i>For Each 0.5% Of Latex Addition, Add</i>	0.32	
32 12 36 13-0036 Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) ⁽³²⁾		
<small>12 36 13-0003</small>		
<small>Note: First coat 23 to 30 Pounds Per SY of 1/2" No. 4 with 0.20 to 0.35 gallons asphalt emulsion per SY, Second coat 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.20 to 0.30 gallons asphalt emulsion per SY.</small>		
32 12 36 13-0037 SY Up To 200 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.61	
<i>For Each 0.5% Of Latex Addition, Add</i>	0.46	
32 12 36 13-0038 SY >200 To 500 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.21	
<i>For Each 0.5% Of Latex Addition, Add</i>	0.46	
32 12 36 13-0039 SY >500 To 1,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.92	
<i>For Each 0.5% Of Latex Addition, Add</i>	0.46	
32 12 36 13-0040 SY >1,000 To 5,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.58	
<i>For Each 0.5% Of Latex Addition, Add</i>	0.46	
32 12 36 13-0041 SY >5,000 To 10,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.39	
<i>For Each 0.5% Of Latex Addition, Add</i>	0.46	
32 12 36 13-0042 SY >10,000 To 20,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.16	
<i>For Each 0.5% Of Latex Addition, Add</i>	0.46	
32 12 36 13-0043 SY >20,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.98	
<i>For Each 0.5% Of Latex Addition, Add</i>	0.46	
32 12 36 13-0044 Sand Sealer ^(32 12 36 13)		
<small>Note: A sand seal is an application of asphalt binder followed by placement of a layer of sand or fine aggregate, and then rolled to embed the sand or fine aggregate into the binder. Includes sweeping and cleaning of area.</small>		
32 12 36 13-0045 SY Up To 200 SY, Sand Seal.....	1.96	
32 12 36 13-0046 SY >200 To 500 SY, Sand Seal.....	1.22	
32 12 36 13-0047 SY >500 To 1,000 SY, Sand Seal.....	1.22	
32 12 36 13-0048 SY >1,000 To 5,000 SY, Sand Seal.....	1.06	
32 12 36 13-0049 SY >5,000 To 10,000 SY, Sand Seal.....	0.96	
32 12 36 13-0050 SY >10,000 To 20,000 SY, Sand Seal.....	0.89	
32 12 36 13-0051 SY >20,000 SY, Sand Seal.....	0.83	
32 12 36 16 Coal Tar Seal Coats ^(32 12 36)		
32 12 36 16-0001 Thermoplastic Coal-Tar Asphalt Seal ^(32 12 36 16)		
<small>Note: Includes sweeping and cleaning of area.</small>		
32 12 36 16-0002 SY Up To 500 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	5.77	
32 12 36 16-0003 SY >500 To 1,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	5.27	
32 12 36 16-0004 SY >1,000 To 5,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	4.58	
32 12 36 16-0005 SY >5,000 To 20,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	3.98	
32 12 36 16-0006 SY >20,000 To 50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	3.30	
32 12 36 16-0007 SY >50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	2.61	
32 12 36 16-0008 SY Up To 500 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	6.63	
32 12 36 16-0009 SY >500 To 1,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	6.11	
32 12 36 16-0010 SY >1,000 To 5,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	5.32	
32 12 36 16-0011 SY >5,000 To 20,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	4.67	
32 12 36 16-0012 SY >20,000 To 50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	3.90	
32 12 36 16-0013 SY >50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	3.11	
32 12 43 Porous Flexible Paving ^(32 12)		
32 12 43 00-0001 Flexible Recycled Plastic Porous Grid ^(32 12 43)		
<small>Note: Includes sand fill in rings. Excludes base, earth work and grass or sod.</small>		
32 12 43 00-0002 SY 1" Thick, Recycled Plastic Flexible Pavement With Sand Fill.....	25.43	
<small>Note: Includes sand fill in rings. Excludes base, earth work and grass or sod. Invisible Structures, Inc.; Grasspave2.</small>		
<i>For Up To 100, Add</i>	9.04	
<i>For >100 To 500, Add</i>	2.34	
<i>For >1,000 To 5,000, Deduct</i>	-1.07	
<i>For >5,000, Deduct</i>	-2.05	
32 12 73 Asphalt Paving Joint Sealants ^(32 12)		
32 12 73 00-0001 Expansion Joint In Sidewalk ^(32 12 73)		
32 12 73 00-0002 LF For Hot Asphalt Poured Over Expansion Joint In Sidewalk.....	3.94	

32	Exterior Improvements
32 10	Bases, Ballasts, And Paving
32 13	Rigid Paving



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 13 Rigid Paving (32 10)

32 13 13 Concrete Paving (32 13)

Note: The following section includes spreading and placing delivered Portland cement concrete mix.

32 13 13 33 Plain Concrete Paving (32 13 13)

32 13 13 33-0001 Concrete Paving Assemblies (32 13 13 33)

Note: Includes forms, wire mesh (where necessary), two mat layers #3-#6 reinforcing rods at 12" on center with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float and finish. Excludes excavation, base and earthwork. Includes concrete paving machine. To be used for roadways, driveways, parking areas, or other areas of vehicular traffic. See CSI section 03 05 13 00-0001 for color additive.

32 13 13 33-0002 4,500 PSI Concrete Paving Assembly (32 13 13 33-0001)

32 13 13 33-0003	SY	4"	4,500 PSI Concrete Paving Assembly	50.49	
			For 2,500 PSI Concrete, Deduct	-3.14	
			For 3,000 PSI Concrete, Deduct	-2.05	
			For 3,500 PSI Concrete, Deduct	-1.64	
			For 4,000 PSI Concrete, Deduct	-0.71	
			For 5,000 PSI Concrete, Add	0.44	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	3.55	
			For <12' Wide Pass, Add	8.52	
			For 24' Or Greater Wide Pass, Deduct	-10.10	
			For Air Entrainment, Add	1.37	
			For Slipforming, Deduct	-5.05	
			For Up To 100, Add	19.36	
			For >100 To 250, Add	11.05	
			For >250 To 500, Add	5.52	
			For >1,000 To 2,000, Deduct	-1.37	
			For >2,000 To 5,000, Deduct	-2.63	
			For >5,000 To 10,000, Deduct	-3.89	
			For >10,000 To 20,000, Deduct	-5.15	
			For >20,000, Deduct	-6.42	
32 13 13 33-0004	SY	5"	4,500 PSI Concrete Paving Assembly	60.03	
			For 2,500 PSI Concrete, Deduct	-3.95	
			For 3,000 PSI Concrete, Deduct	-2.57	
			For 3,500 PSI Concrete, Deduct	-2.06	
			For 4,000 PSI Concrete, Deduct	-0.89	
			For 5,000 PSI Concrete, Add	0.55	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	4.46	
			For <12' Wide Pass, Add	9.86	
			For 24' Or Greater Wide Pass, Deduct	-12.01	
			For Air Entrainment, Add	1.72	
			For Slipforming, Deduct	-6.00	
			For Up To 100, Add	22.29	
			For >100 To 250, Add	12.86	
			For >250 To 500, Add	6.43	
			For >1,000 To 2,000, Deduct	-1.72	
			For >2,000 To 5,000, Deduct	-3.22	
			For >5,000 To 10,000, Deduct	-4.72	
			For >10,000 To 20,000, Deduct	-6.22	
			For >20,000, Deduct	-7.72	
32 13 13 33-0005	SY	6"	4,500 PSI Concrete Paving Assembly	64.06	
			For 2,500 PSI Concrete, Deduct	-4.16	
			For 3,000 PSI Concrete, Deduct	-2.72	
			For 3,500 PSI Concrete, Deduct	-2.17	
			For 4,000 PSI Concrete, Deduct	-0.94	
			For 5,000 PSI Concrete, Add	0.58	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	4.71	
			For <12' Wide Pass, Add	10.59	
			For 24' Or Greater Wide Pass, Deduct	-12.81	
			For Air Entrainment, Add	1.81	
			For Slipforming, Deduct	-6.41	
			For Up To 100, Add	23.96	
			For >100 To 250, Add	13.79	
			For >250 To 500, Add	6.89	
			For >1,000 To 2,000, Deduct	-1.81	
			For >2,000 To 5,000, Deduct	-3.41	
			For >5,000 To 10,000, Deduct	-5.01	
			For >10,000 To 20,000, Deduct	-6.61	
			For >20,000, Deduct	-8.22	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	32 13	13 33-0006	SY	7" 4,500 PSI Concrete Paving Assembly.....	76.52	
				<i>For 2,500 PSI Concrete, Deduct</i>	-5.25	
				<i>For 3,000 PSI Concrete, Deduct</i>	-3.42	
				<i>For 3,500 PSI Concrete, Deduct</i>	-2.74	
				<i>For 4,000 PSI Concrete, Deduct</i>	-1.19	
				<i>For 5,000 PSI Concrete, Add</i>	0.73	
				<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	5.93	
				<i>For <12' Wide Pass, Add</i>	12.28	
				<i>For 24' Or Greater Wide Pass, Deduct</i>	-15.30	
				<i>For Air Entrainment, Add</i>	2.28	
				<i>For Slipforming, Deduct</i>	-7.65	
				<i>For Up To 100, Add</i>	27.65	
				<i>For >100 To 250, Add</i>	16.11	
				<i>For >250 To 500, Add</i>	8.05	
				<i>For >1,000 To 2,000, Deduct</i>	-2.28	
				<i>For >2,000 To 5,000, Deduct</i>	-4.20	
				<i>For >5,000 To 10,000, Deduct</i>	-6.11	
				<i>For >10,000 To 20,000, Deduct</i>	-8.02	
				<i>For >20,000, Deduct</i>	-9.93	
	32 13	13 33-0007	SY	8" 4,500 PSI Concrete Paving Assembly.....	87.14	
				<i>For 2,500 PSI Concrete, Deduct</i>	-5.76	
				<i>For 3,000 PSI Concrete, Deduct</i>	-3.76	
				<i>For 3,500 PSI Concrete, Deduct</i>	-3.01	
				<i>For 4,000 PSI Concrete, Deduct</i>	-1.30	
				<i>For 5,000 PSI Concrete, Add</i>	0.80	
				<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	6.51	
				<i>For <12' Wide Pass, Add</i>	14.27	
				<i>For 24' Or Greater Wide Pass, Deduct</i>	-17.43	
				<i>For Air Entrainment, Add</i>	2.51	
				<i>For Slipforming, Deduct</i>	-8.71	
				<i>For Up To 100, Add</i>	32.24	
				<i>For >100 To 250, Add</i>	18.63	
				<i>For >250 To 500, Add</i>	9.31	
				<i>For >1,000 To 2,000, Deduct</i>	-2.51	
				<i>For >2,000 To 5,000, Deduct</i>	-4.68	
				<i>For >5,000 To 10,000, Deduct</i>	-6.86	
				<i>For >10,000 To 20,000, Deduct</i>	-9.04	
				<i>For >20,000, Deduct</i>	-11.22	
	32 13	13 33-0008	SY	9" 4,500 PSI Concrete Paving Assembly.....	98.79	
				<i>For 2,500 PSI Concrete, Deduct</i>	-6.66	
				<i>For 3,000 PSI Concrete, Deduct</i>	-4.34	
				<i>For 3,500 PSI Concrete, Deduct</i>	-3.47	
				<i>For 4,000 PSI Concrete, Deduct</i>	-1.51	
				<i>For 5,000 PSI Concrete, Add</i>	0.93	
				<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	7.53	
				<i>For <12' Wide Pass, Add</i>	16.01	
				<i>For 24' Or Greater Wide Pass, Deduct</i>	-19.76	
				<i>For Air Entrainment, Add</i>	2.89	
				<i>For Slipforming, Deduct</i>	-9.88	
				<i>For Up To 100, Add</i>	36.12	
				<i>For >100 To 250, Add</i>	20.95	
				<i>For >250 To 500, Add</i>	10.48	
				<i>For >1,000 To 2,000, Deduct</i>	-2.89	
				<i>For >2,000 To 5,000, Deduct</i>	-5.36	
				<i>For >5,000 To 10,000, Deduct</i>	-7.83	
				<i>For >10,000 To 20,000, Deduct</i>	-10.30	
				<i>For >20,000, Deduct</i>	-12.77	
	32 13	13 33-0009	SY	10" 4,500 PSI Concrete Paving Assembly.....	109.98	
				<i>For 2,500 PSI Concrete, Deduct</i>	-7.32	
				<i>For 3,000 PSI Concrete, Deduct</i>	-4.78	
				<i>For 3,500 PSI Concrete, Deduct</i>	-3.82	
				<i>For 4,000 PSI Concrete, Deduct</i>	-1.66	
				<i>For 5,000 PSI Concrete, Add</i>	1.02	
				<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	8.28	
				<i>For <12' Wide Pass, Add</i>	17.94	
				<i>For 24' Or Greater Wide Pass, Deduct</i>	-22.00	
				<i>For Air Entrainment, Add</i>	3.18	
				<i>For Slipforming, Deduct</i>	-11.00	
				<i>For Up To 100, Add</i>	40.52	
				<i>For >100 To 250, Add</i>	23.44	
				<i>For >250 To 500, Add</i>	11.72	
				<i>For >1,000 To 2,000, Deduct</i>	-3.18	
				<i>For >2,000 To 5,000, Deduct</i>	-5.93	
				<i>For >5,000 To 10,000, Deduct</i>	-8.68	
				<i>For >10,000 To 20,000, Deduct</i>	-11.43	
				<i>For >20,000, Deduct</i>	-14.18	

32	Exterior Improvements
32 10	Bases, Ballasts, And Paving
32 13	Rigid Paving



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 13 13 33-0010	SY 12" 4,500 PSI Concrete Paving Assembly	130.97
	For 2,500 PSI Concrete, Deduct	-8.67
	For 3,000 PSI Concrete, Deduct	-5.66
	For 3,500 PSI Concrete, Deduct	-4.52
	For 4,000 PSI Concrete, Deduct	-1.96
	For 5,000 PSI Concrete, Add	1.21
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	9.80
	For <12' Wide Pass, Add	21.43
	For 24' Or Greater Wide Pass, Deduct	-26.19
	For Air Entrainment, Add	3.77
	For Slipforming, Deduct	-13.10
	For Up To 100, Add	48.42
	For >100 To 250, Add	27.98
	For >250 To 500, Add	13.99
	For >1,000 To 2,000, Deduct	-3.77
	For >2,000 To 5,000, Deduct	-7.04
	For >5,000 To 10,000, Deduct	-10.32
	For >10,000 To 20,000, Deduct	-13.59
	For >20,000, Deduct	-16.87
32 13 13 33-0011	SY 15" 4,500 PSI Concrete Paving Assembly	166.34
	For 2,500 PSI Concrete, Deduct	-10.65
	For 3,000 PSI Concrete, Deduct	-6.95
	For 3,500 PSI Concrete, Deduct	-5.56
	For 4,000 PSI Concrete, Deduct	-2.41
	For 5,000 PSI Concrete, Add	1.48
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	12.04
	For <12' Wide Pass, Add	27.70
	For 24' Or Greater Wide Pass, Deduct	-33.27
	For Air Entrainment, Add	4.63
	For Slipforming, Deduct	-16.63
	For Up To 100, Add	62.76
	For >100 To 250, Add	36.01
	For >250 To 500, Add	18.01
	For >1,000 To 2,000, Deduct	-4.63
	For >2,000 To 5,000, Deduct	-8.79
	For >5,000 To 10,000, Deduct	-12.95
	For >10,000 To 20,000, Deduct	-17.11
	For >20,000, Deduct	-21.26

32 13 16 Decorative Concrete Paving (32 13)

32 13 16 13 Patterned Concrete Paving (32 13 16)

See CSI section 32 17 26 00-0000 for tactile warning surfaces.

32 13 16 13-0001	SF For Patterned (Tactile) Finish In Concrete Sidewalk.....	3.99
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32 13 43 Pervious Concrete Paving (32 13)

32 13 43 00-0001 Pervious Concrete Assembly (32 13 43)

Note: Pervious concrete is a special concrete mix with high porosity that allows water to pass through it. For paving and sidewalks.

32 13 43 00-0002	SF 6" Thick Pervious Concrete Paving.....	12.33
	Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.	
	For >5,000 To 30,000, Deduct	-1.36
	For >30,000 To 100,000, Deduct	-2.53
	For >100,000, Deduct	-3.15
32 13 43 00-0003	SF 9" Thick Pervious Concrete Paving.....	15.39
	Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.	
	For >5,000 To 30,000, Deduct	-1.65
	For >30,000 To 100,000, Deduct	-3.03
	For >100,000, Deduct	-3.77

32 13 73 Concrete Paving Joint Sealants (32 13)

32 13 73 13 Fuel-Resistant Concrete Paving Joint Sealants (32 13 73)

32 13 73 13-0001 Concrete Pavement Joint And Crack Repair (32 13 73 13)

Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.

32 13 73 13-0002	LF Pavement Sealing, Roads Resealing Joints In Concrete Pavements For Roads	7.54
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32 13 73 16 Field-Molded Concrete Paving Joint Sealants (32 13 73)

32 13 73 16-0001 Preformed Elastomeric Concrete Pavement Joint And Crack Repair (32 13 73 16)

Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.

32 13 73 16-0002	LF Joint Sealing, Concrete Pavement Preformed Elastomeric	11.54
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32 13 73 19 Compression Concrete Paving Joint Sealants (32 13 73)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 13 73 19-0001			Silicone Joint Sealant For Concrete Pavement <small>(32 13 73 19)</small> Note: Installation includes high pressure water wash, sand blast, sweeping, cleaning area, backer rod and Dow Corning 888 silicone sealant. Demolition includes removal of existing material where sawcutting is not required. Excludes saw cutting.		
32 13 73 19-0002	LF		1/4" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	8.39	2.01
32 13 73 19-0003	LF		3/8" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	8.71	2.05
32 13 73 19-0004	LF		1/2" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	9.07	2.09
32 13 73 19-0005	LF		3/4" x 3/8" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	10.12	2.13
32 13 73 19-0006	LF		1" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	11.42	2.18
32 13 73 19-0007	LF		1-1/2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	13.15	2.22
32 13 73 19-0008	LF		2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	15.72	2.27

32 14 Unit Paving (32 10)

32 14 09 Paver Restraints (32 14)

32 14 09 00-0001			Paver Restraints <small>(32 14 09)</small> Note: Paver restraints are used along the edge of a group of pavers as a locking border. Flexible or rigid sections. Includes stakes and connecting devices. Excludes pavers, bedding, excavation, base course and compaction.		
32 14 09 00-0002	LF		Up To 2" Height, Vinyl Paver Restraint	3.24	0.88
			<i>For >1,000 To 2,000, Deduct</i>	-0.40	
			<i>For >2,000 To 4,000, Deduct</i>	-0.58	
			<i>For >4,000, Deduct</i>	-0.75	
32 14 09 00-0003	LF		Up To 2" Height, Galvanized Steel Paver Restraint	3.48	0.88
			<i>For >500 To 1,000, Deduct</i>	-0.10	
			<i>For >1,000 To 2,000, Deduct</i>	-0.21	
			<i>For >2,000, Deduct</i>	-0.31	
32 14 09 00-0004	LF		Up To 1" Height, Aluminum Paver Restraint	3.36	0.88
			<i>For >250 To 500, Deduct</i>	-0.19	
			<i>For >500 To 1,000, Deduct</i>	-0.29	
			<i>For >1,000 To 1,500, Deduct</i>	-0.49	
32 14 09 00-0005	LF		>1" To 2" Height, Aluminum Paver Restraint	3.90	0.88
			<i>For >250 To 500, Deduct</i>	-0.25	
			<i>For >500 To 1,000, Deduct</i>	-0.37	
			<i>For >1,000 To 1,500, Deduct</i>	-0.62	
32 14 09 00-0006	LF		>2" To 3" Height, Aluminum Paver Restraint	4.95	0.88
			<i>For >250 To 500, Deduct</i>	-0.35	
			<i>For >500 To 1,000, Deduct</i>	-0.53	
			<i>For >1,000 To 1,500, Deduct</i>	-0.88	
32 14 09 00-0007	LF		>3" To 4" Height, Aluminum Paver Restraint	5.75	0.88
			<i>For >250 To 500, Deduct</i>	-0.43	
			<i>For >500 To 1,000, Deduct</i>	-0.65	
			<i>For >1,000 To 1,500, Deduct</i>	-1.08	

32 14 11 Bedding For Unit Paving (32 14)

32 14 11 00-0001			Bedding For Brick, Precast Concrete Paver And Stone Sidewalk <small>(32 14 11)</small> Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. See CSI section 01 74 19 00-0051 for hauling greater than 15 miles.		
32 14 11 00-0002	SF		1" To 2" Sand Bedding, Screeded	0.96	
			<i>For Up To 100, Add</i>	0.41	
			<i>For >100 To 500, Add</i>	0.12	
			<i>For >1,000 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000, Deduct</i>	-0.11	
32 14 11 00-0003	SF		1" To 2" Stone Dust Bedding, Screeded	1.19	
			<i>For Up To 100, Add</i>	0.47	
			<i>For >100 To 500, Add</i>	0.13	
			<i>For >1,000 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000, Deduct</i>	-0.12	
32 14 11 00-0004	SF		3" Stone Dust Bedding, Screeded	1.55	
			<i>For Up To 100, Add</i>	0.59	
			<i>For >100 To 500, Add</i>	0.16	
			<i>For >1,000 To 5,000, Deduct</i>	-0.08	
			<i>For >5,000, Deduct</i>	-0.14	
32 14 11 00-0005	SF		4" Stone Dust Bedding, Screeded	1.97	
			<i>For Up To 100, Add</i>	0.74	
			<i>For >100 To 500, Add</i>	0.20	
			<i>For >1,000 To 5,000, Deduct</i>	-0.10	
			<i>For >5,000, Deduct</i>	-0.18	
32 14 11 00-0006	SF		1" Mortar Bedding	2.81	
			<i>For Up To 100, Add</i>	1.26	
			<i>For >100 To 500, Add</i>	0.36	
			<i>For >1,000 To 5,000, Deduct</i>	-0.22	
			<i>For >5,000, Deduct</i>	-0.35	
32 14 11 00-0007	SF		2" Mortar Bedding	4.13	
			<i>For Up To 100, Add</i>	1.78	
			<i>For >100 To 500, Add</i>	0.50	
			<i>For >1,000 To 5,000, Deduct</i>	-0.30	
			<i>For >5,000, Deduct</i>	-0.48	

32	Exterior Improvements
32 10	Bases, Ballasts, And Paving
32 14	Unit Paving



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 11 00-0008 SF Thin-Set Latex Portland Cement Mortar	1.46	
For Up To 100, Add	0.66	
For >100 To 500, Add	0.19	
For >1,000 To 5,000, Deduct	-0.12	
For >5,000, Deduct	-0.19	
32 14 13 Precast Concrete Unit Paving (32 14)		
32 14 13 16 Precast Concrete Unit Paving Slabs (32 14 13)		
32 14 13 16-0001 Precast Concrete Paver Sidewalk (32 14 13 16)		
Note: Square, rectangular, or interlocking pervious pavers. Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 13 16-0002 SF 2-3/8" Thick, Up To 32 SI Precast Concrete Paver	10.23	2.78
Note: Includes 2-1/2" x 5", 4" x 4", 4" x 6", 5" x 5", 4" x 8" and other similar size pavers.		
For 2-3/4" Concrete Paver, Add	0.98	
For 3-1/8" Concrete Paver, Add	1.58	
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.79	
For Up To 100, Add	3.96	
For >100 To 500, Add	1.07	
For >1,000 To 5,000, Deduct	-0.56	
For >5,000, Deduct	-0.98	
32 14 13 16-0003 SF 2-3/8" Thick, >32 to 64 SI Precast Concrete Paver	9.72	2.54
Note: Includes 5" x 7", 6" x 6", 8" x 8" and other similar size pavers.		
For 2-3/4" Concrete Paver, Add	0.95	
For 3-1/8" Concrete Paver, Add	1.54	
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.74	
For Up To 100, Add	3.70	
For >100 To 500, Add	0.99	
For >1,000 To 5,000, Deduct	-0.51	
For >5,000, Deduct	-0.90	
32 14 13 16-0004 SF 2-3/8" Thick, >64 to 144 SI Precast Concrete Paver	9.26	2.02
Note: Includes 6" x 12", 12" x 12" and other similar size pavers.		
For 2-3/4" Concrete Paver, Add	0.93	
For 3-1/8" Concrete Paver, Add	1.51	
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.69	
For Up To 100, Add	3.47	
For >100 To 500, Add	0.93	
For >1,000 To 5,000, Deduct	-0.46	
For >5,000, Deduct	-0.83	
32 14 13 16-0005 SF 2-3/8" Thick, >144 SI Precast Concrete Paver	8.84	2.10
Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.		
For 2-3/4" Concrete Paver, Add	0.91	
For 3-1/8" Concrete Paver, Add	1.48	
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.65	
For Up To 100, Add	3.26	
For >100 To 500, Add	0.86	
For >1,000 To 5,000, Deduct	-0.42	
For >5,000, Deduct	-0.77	
32 14 13 16-0006 SF 2-3/8" Thick, Precast Concrete Paver, Combinations And Patterns	9.48	2.42
Note: Patterns made by combining pavers from two or more size groups.		
For 2-3/4" Concrete Paver, Add	0.94	
For 3-1/8" Concrete Paver, Add	1.52	
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.72	
For Up To 100, Add	3.58	
For >100 To 500, Add	0.96	
For >1,000 To 5,000, Deduct	-0.48	
For >5,000, Deduct	-0.87	
32 14 13 19 Porous Precast Concrete Unit Paving (32 14 13)		
32 14 13 19-0001 Turf Block (32 14 13 19)		
Note: Grass grid, open-cell unit paver, geoblock.		
32 14 13 19-0002 SF 3-1/8" Thick, Precast Concrete Turf Block	8.51	2.42
For Up To 100, Add	3.34	
For >100 To 500, Add	0.91	
For >1,000 To 5,000, Deduct	-0.48	
For >5,000, Deduct	-0.84	
32 14 16 Brick Unit Paving (32 14)		
32 14 16 00-0001 Brick Paver Sidewalk (32 14 16)		
Note: Includes sand joints. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 16 00-0002 SF 4" x 8" x 2-1/4" Brick Paver, Laid Flat	10.42	2.78
For 1-3/8" Thick Paver, Deduct	-1.97	
For 2-3/4" Thick Paver (Vehicular), Add	4.40	
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.80	
For Up To 100, Add	4.00	
For >100 To 500, Add	1.08	
For >1,000 To 5,000, Deduct	-0.56	
For >5,000, Deduct	-0.98	



Exterior Improvements	32
Bases, Ballasts, And Paving	32 10
Unit Paving	32 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 16 00-0003 SF 4" x 8" x 2-1/4" Brick, Laid On Edge <i>For 1-3/8" Thick Paver, Deduct</i> <i>For 2-3/4" Thick Paver (Vehicular), Add</i> <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	14.95 -3.32 7.65 1.07 5.33 1.38 -0.64 -1.21	3.18
32 14 33 Plastic Paving (32 14)		
32 14 33 00-0001 Turf Block Plastic Paving (32 14 33)		
32 14 33 00-0002 SF 4" Thick Recycled Polyvinyl Chloride (PVC) Plastic Turf Block <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	12.13 4.24 1.09 -0.48 -0.94	2.42
32 14 40 Stone Paving (32 14)		
32 14 40 00-0001 Slate Paver Sidewalk (32 14 40) Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0002 SF 1" Thick, Up to 54 SI Slate Paver Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 1/4" Thick Paver, Deduct</i> <i>For 1/2" Thick Paver, Deduct</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	15.05 0.98 -7.83 -5.49 4.92 1.21 -0.46 -1.01	2.31
32 14 40 00-0003 SF 1" Thick, >54 to 108 SI Slate Paver Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 1/4" Thick Paver, Deduct</i> <i>For 1/2" Thick Paver, Deduct</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	14.63 0.94 -7.73 -5.43 4.71 1.15 -0.42 -0.94	2.10
32 14 40 00-0004 SF 1" Thick, >108 to 216 SI Slate Paver Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 1/4" Thick Paver, Deduct</i> <i>For 1/2" Thick Paver, Deduct</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	13.90 0.87 -7.54 -5.32 4.34 1.04 -0.35 -0.83	1.74
32 14 40 00-0005 SF 1" Thick, >216 SI Slate Paver Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 1/4" Thick Paver, Deduct</i> <i>For 1/2" Thick Paver, Deduct</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	13.58 0.84 -7.46 -5.27 4.18 0.99 -0.32 -0.79	1.58
32 14 40 00-0006 SF 1" Thick, Slate Paver, Combinations And Patterns Note: Patterns made by combining pavers from two or more size groups. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 1/4" Thick Paver, Deduct</i> <i>For 1/2" Thick Paver, Deduct</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	14.23 0.90 -7.63 -5.37 4.51 1.09 -0.38 -0.88	1.90
32 14 40 00-0007 Granite Paver Sidewalk (32 14 40) Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0008 SF 1" Thick, Up to 54 SI Granite Paver Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 2" Granite Paver, Add</i> <i>For 3" Granite Paver, Add</i> <i>For 4" Granite Paver, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	20.28 1.25 1.01 2.03 2.26 6.23 1.48 -0.46 -1.16	2.31

32	Exterior Improvements
32 10	Bases, Ballasts, And Paving
32 14	Unit Paving



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 40 00-0009 SF 1" Thick, >54 to 108 SI Granite Paver.....	19.86	2.10
Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.20	
For 2" Granite Paver, Add	0.99	
For 3" Granite Paver, Add	1.99	
For 4" Granite Paver, Add	2.20	
For Up To 100, Add	6.02	
For >100 To 500, Add	1.41	
For >1,000 To 5,000, Deduct	-0.42	
For >5,000, Deduct	-1.10	
32 14 40 00-0010 SF 1" Thick, >108 to 216 SI Granite Paver.....	19.13	1.74
Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.13	
For 2" Granite Paver, Add	0.96	
For 3" Granite Paver, Add	1.91	
For 4" Granite Paver, Add	2.09	
For Up To 100, Add	5.65	
For >100 To 500, Add	1.30	
For >1,000 To 5,000, Deduct	-0.35	
For >5,000, Deduct	-0.99	
32 14 40 00-0011 SF 1" Thick, >216 SI Granite Paver.....	18.81	1.58
Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.10	
For 2" Granite Paver, Add	0.94	
For 3" Granite Paver, Add	1.88	
For 4" Granite Paver, Add	2.04	
For Up To 100, Add	5.49	
For >100 To 500, Add	1.26	
For >1,000 To 5,000, Deduct	-0.32	
For >5,000, Deduct	-0.94	
32 14 40 00-0012 SF 1" Thick, Granite Paver, Combinations And Patterns	19.46	1.90
Note: Patterns made by combining pavers from two or more size groups.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.16	
For 2" Granite Paver, Add	0.97	
For 3" Granite Paver, Add	1.95	
For 4" Granite Paver, Add	2.14	
For Up To 100, Add	5.82	
For >100 To 500, Add	1.35	
For >1,000 To 5,000, Deduct	-0.38	
For >5,000, Deduct	-1.04	
32 14 40 00-0013 Cobble Stone <small>(32 14 40)</small>		
Note: Includes 6" thick 2,500 psi concrete mix with various colors of rounded 4" to 8" diameter cobble stones, half embedded in concrete.		
32 14 40 00-0014 SF 4" to 8" diameter cobble stones, various colors, Up To 500 SF	22.84	
Note: Half embedded in minimum 6" thick 2500 psi concrete mix.		
32 14 40 00-0015 SF 4" to 8" diameter cobble stones, various colors, > 500 SF	17.86	
Note: Half embedded in minimum 6" thick 2500 psi concrete mix.		
32 15 Aggregate Surfacing <small>(32 10)</small>		
32 15 40 Crushed Stone Surfacing <small>(32 15)</small>		
Note: Includes delivery up to 15 miles from supplier, placement, rolling and compaction water. See CSI section 01 74 19 00-0051 for hauling greater than 15 miles.		
32 15 40 00-0001 Gravel Surfacing And Spreading <small>(32 15 40)</small>		
Note: Includes delivered material, placement, rolling and compaction water.		
32 15 40 00-0002 CY Gravel Surfacing And Spreading.....	65.62	
32 15 40 00-0003 Limestone Screenings <small>(32 15 40)</small>		
Note: Includes delivered material, placement, rolling and compaction water. For trail maintenance.		
32 15 40 00-0004 CY Limestone Screenings For Trail	40.26	
32 15 40 00-0005 Decomposed Granite <small>(32 15 40)</small>		
Note: Includes delivered material, placement, rolling and compaction water.		
32 15 40 00-0006 SY 3" To 4" Thick Decomposed Granite Screenings With Stabilizer Pathway	12.09	
Note: Placed in 2 lifts.		
For Additional 2" Lift	6.05	
For >45 To 180, Deduct	-0.85	
For >180 To 450, Deduct	-1.10	
For >450, Deduct	-1.34	
32 16 Curbs, Gutters, Sidewalks, And Driveways <small>(32 10)</small>		
32 16 13 Curbs And Gutters <small>(32 16)</small>		
Note: Includes transitions. Demolition Includes two saw cuts (each end) of curbs and gutters for lengths up to 100'. See CSI section 02 41 19 13-0056 for additional saw cuts within the 100'.		
32 16 13 13 Cast-In-Place Concrete Curbs And Gutters <small>(32 16 13)</small>		
Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0001 Cast In Place Concrete Curbs <small>(32 16 13 13)</small>		
Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.		
32 16 13 13-0002 LF "B3" Cast In Place Concrete Curb	9.80	8.77
32 16 13 13-0003 LF "B3" Cast In Place Concrete Curb - Radius	11.15	10.10
32 16 13 13-0004 LF "B1" Cast In Place Concrete Curb	22.34	8.77
32 16 13 13-0005 LF "B1" Cast In Place Concrete Curb - Radius	25.57	9.66
32 16 13 13-0006 LF "A1-150" Cast In Place Concrete Curb	21.79	8.77
32 16 13 13-0007 LF "A1-150" Cast In Place Concrete Curb - Radius	24.94	9.66
32 16 13 13-0008 LF "A1-200" Cast In Place Concrete Curb	22.58	8.77
32 16 13 13-0009 LF "A1-200" Cast In Place Concrete Curb - Radius	25.83	9.66
32 16 13 13-0010 LF 6" x 12" Cast In Place Concrete Curb (Type A1-6)	16.92	8.77
For Up To 20, Add	10.41	
For >20 To 50, Add	5.91	
For >50 To 100, Add	2.25	
For >500 To 1,000, Deduct	-2.25	
For >1,000, Deduct	-3.80	
32 16 13 13-0011 LF 6" x 12" Cast In Place Concrete Curb - Radius (Type A1-6)	19.39	10.10
For Up To 20, Add	12.00	
For >20 To 50, Add	6.81	
For >50 To 100, Add	2.59	
For >500 To 1,000, Deduct	-2.59	
For >1,000, Deduct	-4.38	
32 16 13 13-0012 LF 6" x 14" Cast In Place Concrete Curb (Type A1-8)	18.62	8.77
For Up To 20, Add	11.40	
For >20 To 50, Add	6.47	
For >50 To 100, Add	2.47	
For >500 To 1,000, Deduct	-2.47	
For >1,000, Deduct	-4.17	
32 16 13 13-0013 LF 6" x 14" Cast In Place Concrete Curb - Radius (Type A1-8)	21.36	10.10
For Up To 20, Add	13.16	
For >20 To 50, Add	7.47	
For >50 To 100, Add	2.85	
For >500 To 1,000, Deduct	-2.85	
For >1,000, Deduct	-4.80	
32 16 13 13-0014 LF 6" x 16" Cast In Place Concrete Curb	20.49	8.77
For Up To 20, Add	12.44	
For >20 To 50, Add	7.05	
For >50 To 100, Add	2.69	
For >500 To 1,000, Deduct	-2.69	
For >1,000, Deduct	-4.55	
32 16 13 13-0015 LF 6" x 16" Cast In Place Concrete Curb - Radius	23.47	13.16
For Up To 20, Add	14.35	
For >20 To 50, Add	8.14	
For >50 To 100, Add	3.10	
For >500 To 1,000, Deduct	-3.10	
For >1,000, Deduct	-5.24	
32 16 13 13-0016 LF 6" x 18" Cast In Place Concrete Curb	21.99	8.77
For Up To 20, Add	13.26	
For >20 To 50, Add	7.52	
For >50 To 100, Add	2.87	
For >500 To 1,000, Deduct	-2.87	
For >1,000, Deduct	-4.86	
32 16 13 13-0017 LF 6" x 18" Cast In Place Concrete Curb - Radius	24.87	10.10
For Up To 20, Add	15.06	
For >20 To 50, Add	8.54	
For >50 To 100, Add	3.26	
For >500 To 1,000, Deduct	-3.26	
For >1,000, Deduct	-5.51	
32 16 13 13-0018 LF 6" x 24" Cast In Place Concrete Curb	25.22	9.66
For Up To 20, Add	14.80	
For >20 To 50, Add	8.38	
For >50 To 100, Add	3.21	
For >500 To 1,000, Deduct	-3.21	
For >1,000, Deduct	-5.45	
32 16 13 13-0019 LF 6" x 24" Cast In Place Concrete Curb - Radius	28.22	10.97
For Up To 20, Add	16.61	
For >20 To 50, Add	9.40	
For >50 To 100, Add	3.61	
For >500 To 1,000, Deduct	-3.61	
For >1,000, Deduct	-6.11	
32 16 13 13-0020 LF 12" x 24" Cast In Place Concrete Curb	33.15	10.97
For Up To 20, Add	17.60	
For >20 To 50, Add	9.90	
For >50 To 100, Add	3.85	
For >500 To 1,000, Deduct	-3.85	
For >1,000, Deduct	-6.61	
32 16 13 13-0021 LF 12" x 24" Cast In Place Concrete Curb - Radius	36.90	12.29
For Up To 20, Add	19.67	
For >20 To 50, Add	11.06	
For >50 To 100, Add	4.30	
For >500 To 1,000, Deduct	-4.30	
For >1,000, Deduct	-7.38	
32 16 13 13-0022 EA Additional Finish For Handicap Drop Section In Curb	65.82	

32 Exterior Improvements**32 10 Bases, Ballasts, And Paving****32 16 Curbs, Gutters, Sidewalks, And Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0023			Cast In Place Concrete Curb And Gutter <small>(32 16 13 13)</small>		
			Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.		
32 16 13 13-0024	LF		"A2-6 Modified" Concrete Curb And Gutter - Straight.....	24.16	10.38
			For Up To 20, Add	16.31	
			For >20 To 50, Add	9.07	
			For >50 To 100, Add	3.62	
			For >500 To 1,000, Deduct	-3.03	
			For >1,000, Deduct	-5.14	
			For Rolled Curb And Gutter	1.49	
32 16 13 13-0025	LF		"A2-6 Modified" Concrete Curb And Gutter - Radius.....	26.77	10.38
			For Up To 20, Add	18.05	
			For >20 To 50, Add	10.02	
			For >50 To 100, Add	4.02	
			For >500 To 1,000, Deduct	-3.33	
			For >1,000, Deduct	-5.66	
			For Rolled Curb And Gutter	1.61	
32 16 13 13-0026	LF		"A2-6" Concrete Curb And Gutter - Straight.....	32.15	13.84
			For Up To 20, Add	22.06	
			For >20 To 50, Add	12.42	
			For >50 To 100, Add	4.82	
			For >500 To 1,000, Deduct	-4.38	
			For >1,000, Deduct	-7.37	
			For Rolled Curb And Gutter	2.53	
32 16 13 13-0027	LF		"A2-6" Concrete Curb And Gutter - Radius.....	41.37	15.57
			For Up To 20, Add	27.94	
			For >20 To 50, Add	15.53	
			For >50 To 100, Add	6.21	
			For >500 To 1,000, Deduct	-5.18	
			For >1,000, Deduct	-8.81	
			For Rolled Curb And Gutter	2.55	
32 16 13 13-0028	LF		"B-2" Concrete Curb And Gutter - Straight.....	39.59	15.15
			For Up To 20, Add	26.78	
			For >20 To 50, Add	14.91	
			For >50 To 100, Add	5.94	
			For >500 To 1,000, Deduct	-5.01	
			For >1,000, Deduct	-8.50	
			For Rolled Curb And Gutter	2.52	
32 16 13 13-0029	LF		"B-2" Concrete Curb And Gutter - Radius.....	41.06	15.15
			For Up To 20, Add	27.67	
			For >20 To 50, Add	15.35	
			For >50 To 100, Add	6.16	
			For >500 To 1,000, Deduct	-5.08	
			For >1,000, Deduct	-8.65	
			For Rolled Curb And Gutter	2.44	
32 16 13 13-0030	LF		6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	22.85	10.38
			For Up To 20, Add	15.53	
			For >20 To 50, Add	8.67	
			For >50 To 100, Add	3.43	
			For >500 To 1,000, Deduct	-2.96	
			For >1,000, Deduct	-5.01	
			For Rolled Curb And Gutter	1.56	
32 16 13 13-0031	LF		6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Radius.....	24.94	13.84
			For Up To 20, Add	16.96	
			For >20 To 50, Add	9.47	
			For >50 To 100, Add	3.74	
			For >500 To 1,000, Deduct	-3.24	
			For >1,000, Deduct	-5.48	
			For Rolled Curb And Gutter	1.71	
32 16 13 13-0032	LF		6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	29.11	11.51
			For Up To 20, Add	19.76	
			For >20 To 50, Add	11.03	
			For >50 To 100, Add	4.37	
			For >500 To 1,000, Deduct	-3.75	
			For >1,000, Deduct	-6.35	
			For Rolled Curb And Gutter	1.95	
32 16 13 13-0033	LF		6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Radius.....	32.20	12.81
			For Up To 20, Add	21.87	
			For >20 To 50, Add	12.21	
			For >50 To 100, Add	4.83	
			For >500 To 1,000, Deduct	-4.16	
			For >1,000, Deduct	-7.05	
			For Rolled Curb And Gutter	2.19	
32 16 13 13-0034	LF		6" x 24" Concrete Gutter With 6" Curb And Face - Straight (Type A3-6).....	35.39	13.84
			For Up To 20, Add	24.00	
			For >20 To 50, Add	13.39	
			For >50 To 100, Add	5.31	
			For >500 To 1,000, Deduct	-4.54	
			For >1,000, Deduct	-7.69	
			For Rolled Curb And Gutter	2.35	
32 16 13 13-0035	LF		6" x 24" Concrete Gutter With 6" Curb And Face - Radius (Type A3-6).....	39.45	15.57
			For Up To 20, Add	26.79	
			For >20 To 50, Add	14.95	
			For >50 To 100, Add	5.92	
			For >500 To 1,000, Deduct	-5.09	
			For >1,000, Deduct	-8.62	
			For Rolled Curb And Gutter	2.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0036 LF 6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	42.10	16.44
<i>For Up To 20, Add</i>	28.55	
<i>For >20 To 50, Add</i>	15.92	
<i>For >50 To 100, Add</i>	6.32	
<i>For >500 To 1,000, Deduct</i>	-5.39	
<i>For >1,000, Deduct</i>	-9.14	
<i>For Rolled Curb And Gutter</i>	2.78	
32 16 13 13-0037 LF 6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Radius.....	46.28	18.18
<i>For Up To 20, Add</i>	31.40	
<i>For >20 To 50, Add</i>	17.52	
<i>For >50 To 100, Add</i>	6.94	
<i>For >500 To 1,000, Deduct</i>	-5.95	
<i>For >1,000, Deduct</i>	-10.08	
<i>For Rolled Curb And Gutter</i>	3.09	
32 16 13 13-0038 LF 6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	48.80	19.05
<i>For Up To 20, Add</i>	33.09	
<i>For >20 To 50, Add</i>	18.45	
<i>For >50 To 100, Add</i>	7.32	
<i>For >500 To 1,000, Deduct</i>	-6.25	
<i>For >1,000, Deduct</i>	-10.59	
<i>For Rolled Curb And Gutter</i>	3.22	
32 16 13 13-0039 LF 6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Radius.....	53.11	20.78
<i>For Up To 20, Add</i>	36.02	
<i>For >20 To 50, Add</i>	20.09	
<i>For >50 To 100, Add</i>	7.97	
<i>For >500 To 1,000, Deduct</i>	-6.81	
<i>For >1,000, Deduct</i>	-11.54	
<i>For Rolled Curb And Gutter</i>	3.52	
32 16 13 13-0040 LF 6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	55.50	21.64
<i>For Up To 20, Add</i>	37.63	
<i>For >20 To 50, Add</i>	20.98	
<i>For >50 To 100, Add</i>	8.33	
<i>For >500 To 1,000, Deduct</i>	-7.10	
<i>For >1,000, Deduct</i>	-12.04	
<i>For Rolled Curb And Gutter</i>	3.65	
32 16 13 13-0041 LF 6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Radius.....	61.66	24.24
<i>For Up To 20, Add</i>	41.84	
<i>For >20 To 50, Add</i>	23.34	
<i>For >50 To 100, Add</i>	9.25	
<i>For >500 To 1,000, Deduct</i>	-7.93	
<i>For >1,000, Deduct</i>	-13.44	
<i>For Rolled Curb And Gutter</i>	4.12	

32 16 13 14 Machine Formed, Slip Form Curbs (32 16 13)

Note: Includes delivered concrete, steel, expansion joints and finish.

32 16 13 14-0001	Curbs, Machine Formed, Slip Form <small>(32 16 13 14)</small>	1,165.10	
Note: Includes delivered concrete, steel, expansion joints and finish.			
32 16 13 14-0002	JOB Machine Formed Concrete Curb Minimum Set-Up Charge	1,165.10	
Note: For projects where the total curbing charge is less than the minimum set-up charge, use this task exclusively. This task shall not be used in conjunction with any other tasks in this section.			
32 16 13 14-0003	LF 6" x 12" Straight Concrete Curb, Machine Formed.....	11.12	
32 16 13 14-0004	LF 6" x 12" Curved Concrete Curb, Machine Formed.....	14.85	
32 16 13 14-0005	LF 6" x 18" Straight Concrete Curb, Machine Formed.....	14.75	
32 16 13 14-0006	LF 6" x 18" Curved Concrete Curb, Machine Formed.....	19.01	

32 16 13 16 Steel Faced Curbs (32 16 13)

Note: Fabrication includes handicap and other curb access cuts.

32 16 13 16-0001	Sidewalk/Curb Facing <small>(32 16 13 16)</small>		
Note: Fabrication includes handicap and other curb access cuts.			
32 16 13 16-0002	LF 3" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	13.40	4.16
<i>For Curved Section, Add</i>		2.89	
32 16 13 16-0003	LF 4" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	14.73	4.73
<i>For Curved Section, Add</i>		3.25	
32 16 13 16-0004	LF 6" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	19.94	5.29
<i>For Curved Section, Add</i>		3.99	
32 16 13 16-0005	LF 8" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	24.51	5.96
<i>For Curved Section, Add</i>		4.67	
32 16 13 16-0006	LF 10" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	30.04	6.52
<i>For Curved Section, Add</i>		5.44	
32 16 13 16-0007	LF 12" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	39.30	8.31
<i>For Curved Section, Add</i>		7.03	
32 16 13 16-0008	LF 13" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	45.23	10.77
<i>For Curved Section, Add</i>		8.55	
32 16 13 16-0009	EA Sidewalk/Curb Steel Facing, Pedestrian Ramps, Two Drops Per Section.....	142.23	
32 16 13 16-0010	EA Pedestrian/Handicap Ramp, Complete.....	91.92	

32 16 13 19 Cast-In-Place Concrete Drainage Ditches (32 16 13)

Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.

32 Exterior Improvements**32 10 Bases, Ballasts, And Paving****32 16 Curbs, Gutters, Sidewalks, And Driveways**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 16 13 19-0001		Valley Gutter, Cast In Place <small>(32 16 13 19)</small>		
		Note: Includes concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0002	LF	2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	23.16	
		For Up To 20, Add	11.43	
		For >20 To 50, Add	6.39	
		For >50 To 100, Add	2.52	
		For >500 To 1,000, Deduct	-2.52	
		For >1,000, Deduct	-4.35	
32 16 13 19-0003	LF	2-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	28.34	
		For Up To 20, Add	13.86	
		For >20 To 50, Add	7.75	
		For >50 To 100, Add	3.06	
		For >500 To 1,000, Deduct	-3.06	
		For >1,000, Deduct	-5.29	
32 16 13 19-0004	LF	3' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	33.43	
		For Up To 20, Add	16.23	
		For >20 To 50, Add	9.07	
		For >50 To 100, Add	3.58	
		For >500 To 1,000, Deduct	-3.58	
		For >1,000, Deduct	-6.21	
32 16 13 19-0005	LF	3-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	38.51	
		For Up To 20, Add	18.59	
		For >20 To 50, Add	10.38	
		For >50 To 100, Add	4.10	
		For >500 To 1,000, Deduct	-4.10	
		For >1,000, Deduct	-7.12	
32 16 13 19-0006	LF	4' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	43.62	
		For Up To 20, Add	20.96	
		For >20 To 50, Add	11.71	
		For >50 To 100, Add	4.63	
		For >500 To 1,000, Deduct	-4.63	
		For >1,000, Deduct	-8.03	
32 16 13 19-0007	LF	5' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	51.46	
		For Up To 20, Add	24.06	
		For >20 To 50, Add	13.41	
		For >50 To 100, Add	5.33	
		For >500 To 1,000, Deduct	-5.33	
		For >1,000, Deduct	-9.28	
32 16 13 19-0008	LF	6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	58.93	
		For Up To 20, Add	26.90	
		For >20 To 50, Add	14.96	
		For >50 To 100, Add	5.97	
		For >500 To 1,000, Deduct	-5.97	
		For >1,000, Deduct	-10.43	
32 16 13 19-0009	SF	>6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	9.81	
		For Up To 100, Add	4.48	
		For >100 To 250, Add	2.49	
		For >250 To 500, Add	0.99	
		For >2,500 To 5,000, Deduct	-0.99	
		For >5,000, Deduct	-1.74	
32 16 13 19-0010	LF	2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	25.34	
		For Up To 20, Add	12.23	
		For >20 To 50, Add	6.83	
		For >50 To 100, Add	2.70	
		For >500 To 1,000, Deduct	-2.70	
		For >1,000, Deduct	-4.68	
32 16 13 19-0011	LF	2-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	31.25	
		For Up To 20, Add	15.00	
		For >20 To 50, Add	8.37	
		For >50 To 100, Add	3.31	
		For >500 To 1,000, Deduct	-3.31	
		For >1,000, Deduct	-5.75	
32 16 13 19-0012	LF	3' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	36.64	
		For Up To 20, Add	17.39	
		For >20 To 50, Add	9.70	
		For >50 To 100, Add	3.85	
		For >500 To 1,000, Deduct	-3.85	
		For >1,000, Deduct	-6.68	
32 16 13 19-0013	LF	3-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	42.26	
		For Up To 20, Add	19.95	
		For >20 To 50, Add	11.12	
		For >50 To 100, Add	4.41	
		For >500 To 1,000, Deduct	-4.41	
		For >1,000, Deduct	-7.67	
32 16 13 19-0014	LF	4' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	47.85	
		For Up To 20, Add	22.49	
		For >20 To 50, Add	12.53	
		For >50 To 100, Add	4.98	
		For >500 To 1,000, Deduct	-4.98	
		For >1,000, Deduct	-8.66	
32 16 13 19-0015	LF	5' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	56.59	
		For Up To 20, Add	25.85	
		For >20 To 50, Add	14.38	
		For >50 To 100, Add	5.74	
		For >500 To 1,000, Deduct	-5.74	
		For >1,000, Deduct	-10.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0016 LF 6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	64.95	
<i>For Up To 20, Add</i>	28.95	
<i>For >20 To 50, Add</i>	16.07	
<i>For >50 To 100, Add</i>	6.44	
<i>For >500 To 1,000, Deduct</i>	-6.44	
<i>For >1,000, Deduct</i>	-11.28	
32 16 13 19-0017 SF >6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	10.82	
<i>For Up To 100, Add</i>	4.82	
<i>For >100 To 250, Add</i>	2.68	
<i>For >250 To 500, Add</i>	1.07	
<i>For >2,500 To 5,000, Deduct</i>	-1.07	
<i>For >5,000, Deduct</i>	-1.88	
32 16 13 19-0018 LF 2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	25.65	
<i>For Up To 20, Add</i>	12.67	
<i>For >20 To 50, Add</i>	7.09	
<i>For >50 To 100, Add</i>	2.79	
<i>For >500 To 1,000, Deduct</i>	-2.79	
<i>For >1,000, Deduct</i>	-4.83	
32 16 13 19-0019 LF 2-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	31.41	
<i>For Up To 20, Add</i>	15.38	
<i>For >20 To 50, Add</i>	8.60	
<i>For >50 To 100, Add</i>	3.39	
<i>For >500 To 1,000, Deduct</i>	-3.39	
<i>For >1,000, Deduct</i>	-5.87	
32 16 13 19-0020 LF 3' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	37.05	
<i>For Up To 20, Add</i>	18.01	
<i>For >20 To 50, Add</i>	10.06	
<i>For >50 To 100, Add</i>	3.97	
<i>For >500 To 1,000, Deduct</i>	-3.97	
<i>For >1,000, Deduct</i>	-6.88	
32 16 13 19-0021 LF 3-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	42.69	
<i>For Up To 20, Add</i>	20.63	
<i>For >20 To 50, Add</i>	11.53	
<i>For >50 To 100, Add</i>	4.55	
<i>For >500 To 1,000, Deduct</i>	-4.55	
<i>For >1,000, Deduct</i>	-7.90	
32 16 13 19-0022 LF 4' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	48.33	
<i>For Up To 20, Add</i>	23.26	
<i>For >20 To 50, Add</i>	12.99	
<i>For >50 To 100, Add</i>	5.14	
<i>For >500 To 1,000, Deduct</i>	-5.14	
<i>For >1,000, Deduct</i>	-8.91	
32 16 13 19-0023 LF 5' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	57.02	
32 16 13 19-0024 LF 6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	65.31	
32 16 13 19-0025 SF >6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	10.89	
<i>For Up To 100, Add</i>	4.98	
<i>For >100 To 250, Add</i>	2.77	
<i>For >250 To 500, Add</i>	1.10	
<i>For >2,500 To 5,000, Deduct</i>	-1.10	
<i>For >5,000, Deduct</i>	-1.93	
32 16 13 19-0026 Gutter Intersections <small>(32 16 13 19)</small>		
Note: Assembly includes installation, concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0027 EA Cast In Place Concrete Cross Gutter At T Section.....	965.52	
32 16 13 19-0028 EA 8' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	1,159.46	
32 16 13 19-0029 EA 10' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	1,811.66	
32 16 13 19-0030 EA 15' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	4,076.23	
32 16 13 19-0031 EA 20' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	7,246.62	
32 16 13 19-0032 EA 25' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	11,322.85	
32 16 13 19-0033 EA 30' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	16,304.90	
32 16 13 19-0034 Driveway Approach, Cast In Place <small>(32 16 13 19)</small>		
Note: Includes concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0035 SF 4 Cast In Place Concrete Driveway Approach.....	11.23	
<i>For Up To 100, Add</i>	5.00	
<i>For >100 To 500, Add</i>	1.44	
<i>For >1,000 To 5,000, Deduct</i>	-0.88	
<i>For >5,000, Deduct</i>	-1.88	
32 16 13 19-0036 SF 6" Cast In Place Concrete Driveway Approach.....	15.43	
<i>For Up To 100, Add</i>	6.85	
<i>For >100 To 500, Add</i>	1.97	
<i>For >1,000 To 5,000, Deduct</i>	-1.20	
<i>For >5,000, Deduct</i>	-2.57	
32 16 13 23 Precast Concrete Curbs And Gutters <small>(32 16 13)</small>		
32 16 13 23-0001 Precast Concrete Curb <small>(32 16 13 23)</small>		
32 16 13 23-0002 LF 6" x 18" Precast Concrete Curb.....	36.46	8.05
32 16 13 23-0003 LF 6" x 18" Precast Concrete Curb, Radius.....	43.70	9.27
32 16 13 23-0004 LF 6" x 20" Precast Concrete Curb.....	38.79	8.05
32 16 13 23-0005 LF 6" x 20" Precast Concrete Curb, Radius.....	46.77	9.27
32 16 13 23-0006 LF 7" x 18" Precast Concrete Curb.....	39.85	8.05

32 Exterior Improvements**32 10 Bases, Ballasts, And Paving****32 16 Curbs, Gutters, Sidewalks, And Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 23-0007	LF		7" x 18" Precast Concrete Curb, Radius.....	48.00	9.27
32 16 13 23-0008	LF		7" x 20" Precast Concrete Curb.....	42.49	8.05
32 16 13 23-0009	LF		7" x 20" Precast Concrete Curb, Radius.....	51.34	9.27
32 16 13 33 Asphalt Curbs (32 16 13)					
32 16 13 33-0001 Asphalt Curbs (32 16 13 33)					
32 16 13 33-0002	LF		6" Wide x 6" High Asphalt Curb 64 LF/TON, Bituminous, Plain.....	10.79	4.25
32 16 13 33-0003	LF		8" Wide x 6" High Asphalt Curb 50 LF/TON, Bituminous, Plain.....	12.16	4.73
32 16 13 33-0004	LF		8" Wide x 8" High Asphalt Curb 44 LF/TON, Bituminous, Plain.....	13.42	5.20
32 16 13 43 Stone Curbs (32 16 13)					
32 16 13 43-0001 Remove And Reset Stone And Precast Curbing (32 16 13 43)					
			Note: Includes storage and cleaning.		
32 16 13 43-0002	LF		Removal And Resetting Of Stone Or Precast Curbing.....	30.08	
			Note: Includes storage and cleaning.		
32 16 23 Sidewalks (32 16)					
32 16 23 00-0001 Cast In Place Concrete Sidewalk (32 16 23)					
			Note: Includes finish grading, delivered concrete (up to 3500 PSI) by chute, formwork, 1/4" radius joints and edges, polyethylene sheeting, control joints, expansion joints, screed, broom finish, and curing. Excludes excavation, base, base compaction and welded wire reinforcement. For bar or fiber reinforcing, add bar or fiber reinforcing tasks. See CSI section 03 21 00 00-0000 for reinforcing steel, 03 31 13 00-0081 for buggies, 03 31 13 00-0088 for short loads, 03 37 16 00-0001 for pumping with boom truck, 31 00 00 00-0000 for excavation, 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 16 23 00-0002	SF		4" Cast In Place Concrete Sidewalk.....	7.80	
			For Up To 100, Add	3.35	
			For >100 To 500, Add	0.95	
			For Welded Wire Reinforcement, Add	0.65	
			For >1,000 To 5,000, Deduct	-0.56	
			For >5,000, Deduct	-1.23	
32 16 23 00-0003	SF		5" Cast In Place Concrete Sidewalk.....	8.52	
			For Up To 100, Add	3.58	
			For >100 To 500, Add	1.01	
			For Welded Wire Reinforcement, Add	0.65	
			For >1,000 To 5,000, Deduct	-0.58	
			For >5,000, Deduct	-1.30	
32 16 23 00-0004	SF		6" Cast In Place Concrete Sidewalk.....	9.23	
			For Up To 100, Add	3.81	
			For >100 To 500, Add	1.06	
			For Welded Wire Reinforcement, Add	0.65	
			For >1,000 To 5,000, Deduct	-0.60	
			For >5,000, Deduct	-1.36	
32 16 23 00-0005	SF		7" Cast In Place Concrete Sidewalk.....	10.69	
			For Up To 100, Add	4.38	
			For >100 To 500, Add	1.22	
			For Welded Wire Reinforcement, Add	0.65	
			For >1,000 To 5,000, Deduct	-0.68	
			For >5,000, Deduct	-1.56	
32 16 23 00-0006	SF		8" Cast In Place Concrete Sidewalk.....	11.32	
			For Up To 100, Add	4.56	
			For >100 To 500, Add	1.26	
			For Welded Wire Reinforcement, Add	0.65	
			For >1,000 To 5,000, Deduct	-0.69	
			For >5,000, Deduct	-1.61	
32 16 23 00-0007	SF		For Exposed Aggregate Finish In Sidewalk.....	2.00	
32 16 23 00-0008	EA		Finish Concrete Handicap Drop Section In Sidewalk.....	119.56	
			Note: Excludes patterned (tactile) finish.		
32 16 23 00-0009 Bituminous Sidewalk (32 16 23)					
			Note: Includes finish grading, delivered asphalt, formwork, control joints, expansion joints, and compaction. Excludes excavation, base, and base compaction. See CSI section 31 00 00 00-0000 for excavation, 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 16 23 00-0010	SY		1" Bituminous Sidewalk.....	8.43	
			For Up To 100, Add	3.05	
			For >100 To 500, Add	0.80	
			For >1,000 To 5,000, Deduct	-0.38	
			For >5,000, Deduct	-0.80	
32 16 23 00-0011	SY		1-1/2" Bituminous Sidewalk.....	10.62	
			For Up To 100, Add	3.79	
			For >100 To 500, Add	0.98	
			For >1,000 To 5,000, Deduct	-0.45	
			For >5,000, Deduct	-0.98	
32 16 23 00-0012	SY		2" Bituminous Sidewalk.....	14.89	
			For Up To 100, Add	5.13	
			For >100 To 500, Add	1.31	
			For >1,000 To 5,000, Deduct	-0.56	
			For >5,000, Deduct	-1.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 23 00-0013 SY 2-1/2" Bituminous Sidewalk	18.62	
For Up To 100, Add	6.40	
For >100 To 500, Add	1.63	
For >1,000 To 5,000, Deduct	-0.70	
For >5,000, Deduct	-1.63	
32 16 23 00-0014 SY 3" Bituminous Sidewalk	21.53	
For Up To 100, Add	7.27	
For >100 To 500, Add	1.83	
For >1,000 To 5,000, Deduct	-0.76	
For >5,000, Deduct	-1.83	
32 16 23 00-0015 SY 3-1/2" Bituminous Sidewalk	24.98	
For Up To 100, Add	8.32	
For >100 To 500, Add	2.08	
For >1,000 To 5,000, Deduct	-0.83	
For >5,000, Deduct	-2.08	
32 16 43 Asphalt Dike (32 16)		
32 16 43 00-0001 Asphalt Dike (32 16 43)		
32 16 43 00-0002 LF Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height.....	6.03	
32 16 43 00-0003 LF Type B, Asphalt Dike, 13" Base, 5" Top, 8" Height.....	8.33	
32 16 43 00-0004 LF Type C-6, Asphalt Dike, 18" Base, 6" Top, 6" Height.....	8.33	
32 16 43 00-0005 LF Type C-8, Asphalt Dike, 22" Base, 6" Top, 8" Height.....	12.02	
32 16 43 00-0006 LF Type C-9, Asphalt Dike, 24" Base, 6" Top, 9" Height.....	14.26	
32 16 43 00-0007 LF Type D, Asphalt Dike, 8" Base, 4" Top, 2" Height.....	3.04	
32 16 43 00-0008 LF Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	8.68	
32 16 43 00-0009 LF Type F, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back.....	13.40	
32 16 43 00-0010 LF CALTRANS Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height.....	6.03	
32 16 43 00-0011 LF CALTRANS Type C, Asphalt Dike, 8" Base, 4" Top, 2" Height.....	3.04	
32 16 43 00-0012 LF CALTRANS Type D, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back	13.40	
32 16 43 00-0013 LF CALTRANS Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	8.68	
32 16 43 00-0014 LF CALTRANS Type F, Asphalt Dike, 8" Base, 4" Top, 4" Height.....	4.49	
32 17 Paving Specialties (32 10)		
32 17 13 Parking Bumpers (32 17)		
Note: Includes dowels set.		
32 17 13 16 Plastic Parking Bumpers (32 17 13)		
32 17 13 16-0001 EA 4" x 6" x 4' Recycled Plastic Wheel Stop	77.68	5.83
32 17 13 16-0002 EA 4" x 6" x 6' Recycled Plastic Wheel Stop	87.21	5.83
32 17 13 19 Precast Concrete Parking Bumpers (32 17 13)		
32 17 13 19-0001 EA 6" x 8" x 4' Precast Concrete Wheel Stop With Dowels.....	49.25	17.56
32 17 13 19-0002 EA 6" x 6" x 6' Precast Concrete Wheel Stop With Dowels.....	57.33	17.56
32 17 13 19-0003 EA 6" x 8" x 6' Precast Concrete Wheel Stop With Dowels.....	58.64	17.56
32 17 13 19-0004 EA 6" x 10" x 6' Precast Concrete Wheel Stop With Dowels.....	61.33	17.56
32 17 13 19-0005 EA 8" x 4-1/2" x 6' Precast Concrete Wheel Stop With Dowels.....	57.33	17.56
32 17 13 19-0006 EA 8" x 13" x 6' Precast Concrete Wheel Stop With Dowels.....	72.17	17.56
32 17 13 19-0007 EA 7.625" x 7.625" x 6' Precast Concrete Wheel Stop.....	74.80	17.56
32 17 13 19-0008 EA 7.625" x 7.625" x 8' Precast Concrete Wheel Stop.....	107.96	17.56
32 17 13 19-0009 EA 8" x 12" x 8' Precast Concrete Wheel Stop With Dowels.....	101.74	18.96
32 17 13 23 Rubber Parking Bumpers (32 17 13)		
32 17 13 23-0001 EA 3' Recycled Rubber Wheel Stop	26.78	5.83
32 17 13 23-0002 EA 4' Recycled Rubber Wheel Stop	31.46	5.83
32 17 13 23-0003 EA 5' Recycled Rubber Wheel Stop	33.33	5.83
32 17 13 23-0004 EA 6' Recycled Rubber Wheel Stop	36.14	5.83
32 17 13 26 Wood Parking Bumpers (32 17 13)		
32 17 13 26-0001 LF 4" x 4" Timber Barrier With Saddles For Cars, Pressure Treated.....	7.62	1.41
32 17 13 26-0002 LF 6" x 6" Timber Barriers With Saddle For Trucks, Pressure Treated.....	9.63	1.41
32 17 13 33 Remove And Relocate Parking Bumpers (32 17 13)		
32 17 13 33-0001 EA Removal And Relocation Of Precast Concrete Wheel Stop.....	28.08	
32 17 13 33-0002 EA Removal And Relocation Of Plastic Or Wood Wheel Stop	18.26	
32 17 13 33-0003 EA Reset 4' Bumper	24.81	
32 17 13 33-0004 EA Reset 6' Bumper	34.16	
32 17 16 Speed Bumps (32 17)		
32 17 16 00-0001 Modular Rubber Speed Tables (32 17 16)		
Note: 3" high flat topped speed humps, 18" x 42" modular rubber construction. Trafficlogix.		

32	Exterior Improvements
32 10	Bases, Ballasts, And Paving
32 17	Paving Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 16 00-0002 SF Up To 24' Road Width x 7' Run Modular Rubber Speed Table.....	43.67	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0003 SF Up To 24' Road Width x 14' Run Modular Rubber Speed Table.....	38.15	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0004 SF Up To 24' Road Width x 21' Run Modular Rubber Speed Table.....	35.69	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0005 SF >24' To 30' Road Width x 7' Run Modular Rubber Speed Table.....	41.76	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0006 SF >24' To 30' Road Width x 14' Run Modular Rubber Speed Table.....	36.62	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0007 SF >24' To 30' Road Width x 21' Run Modular Rubber Speed Table.....	34.43	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0008 SF >30' To 40' Road Width x 7' Run Modular Rubber Speed Table.....	39.81	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0009 SF >30' To 40' Road Width x 14' Run Modular Rubber Speed Table.....	35.44	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0010 SF >30' To 40' Road Width x 21' Run Modular Rubber Speed Table.....	33.39	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0011 Asphalt Speed Table <small>(32 17 16)</small>		
Note: Excludes pavement markings or reflectors.		
32 17 16 00-0012 LF Up to 36" Wide Asphalt Speed Table With 3" Center Crown	30.04	
Note: Tapered on edges to roadway.		
32 17 16 00-0013 LF >36" To 48" Wide Asphalt Speed Table With 3" Center Crown	35.54	
Note: Tapered on edges to roadway.		
32 17 16 00-0014 LF Up to 36" Wide Asphalt Speed Table With 4" Center Crown	37.80	
Note: Tapered on edges to roadway.		
32 17 16 00-0015 LF >36" To 48" Wide Asphalt Speed Table With 4" Center Crown	44.72	
Note: Tapered on edges to roadway.		
32 17 16 00-0016 LF Up to 36" Wide Asphalt Speed Table With 6" Center Crown	45.91	
Note: Tapered on edges to roadway.		
32 17 16 00-0017 LF >36" To 48" Wide Asphalt Speed Table With 6" Center Crown	51.40	
Note: Tapered on edges to roadway.		
32 17 16 00-0018 Speed Bumps <small>(32 17 16)</small>		
Note: Excludes pavement markings or reflectors.		
32 17 16 00-0019 LF 2-1/4" High x 10-1/2" Wide, Asphalt Speed Bump	33.67	1.46
32 17 16 00-0020 LF 2-1/4" High x 12" Wide, Recycled Rubber Speed Bump.....	26.54	0.97
32 17 16 00-0021 LF 2-5/8" High x 12" Wide, Recycled Plastic Speed Bump	49.52	0.97
32 17 23 Pavement Markings <small>(32 17)</small>		
32 17 23 09 Minimum Charge For Pavement Striping <small>(32 17 23)</small>		
Note: For projects where the total pavement striping charge is less than the minimum charge, use item exclusively. Item should not be used in conjunction with any other items in this section.		
32 17 23 09-0001 EA Pavement Striping Minimum Charge	338.47	
32 17 23 13 Painted Pavement Markings <small>(32 17 23)</small>		
32 17 23 13-0001 Striping, Letters, Symbols And Markers for Roads And Airports <small>(32 17 23 13)</small>		
Note: Includes primers, adhesive and glass beads where required. For broken line quantities use total lane length. Per Coat.		
32 17 23 13-0002 Epoxy Reflective Pavement Marking <small>(32 17 23 13-0001)</small>		
Note: 15 mil thickness.		
32 17 23 13-0003 LF Single 4" Wide Solid Line, Epoxy Reflective Pavement Striping	0.41	
For 20 Mil Thickness, Add	0.08	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
For Broken Line (25% Solid), Deduct	-0.17	
32 17 23 13-0004 LF Single 6" Wide Solid Line, Epoxy Reflective Pavement Striping	0.56	
For 20 Mil Thickness, Add	0.12	
For Up To 5,000 LF, Add	0.11	
For >25,000 LF, Deduct	-0.08	
For Broken Line (25% Solid), Deduct	-0.25	
32 17 23 13-0005 LF Single 8" Wide Solid Line, Epoxy Reflective Pavement Striping	0.68	
For 20 Mil Thickness, Add	0.14	
For Up To 5,000 LF, Add	0.14	
For >25,000 LF, Deduct	-0.10	
For Broken Line (25% Solid), Deduct	-0.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0006 LF Single 12" Wide Solid Line, Epoxy Reflective Pavement Striping.....	1.03	
<i>For 20 Mil Thickness, Add</i>	0.23	
<i>For Up To 5,000 LF, Add</i>	0.21	
<i>For >25,000 LF, Deduct</i>	-0.15	
<i>For Broken Line (25% Solid), Deduct</i>	-0.48	
32 17 23 13-0007 LF Double 4" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	0.62	
<i>For 20 Mil Thickness, Add</i>	0.15	
<i>For Up To 5,000 LF, Add</i>	0.12	
<i>For >25,000 LF, Deduct</i>	-0.09	
<i>For Broken Line On One Side, Deduct</i>	-0.16	
<i>For Double Broken Line, Deduct</i>	-0.32	
32 17 23 13-0008 LF Double 6" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	0.88	
<i>For 20 Mil Thickness, Add</i>	0.23	
<i>For Up To 5,000 LF, Add</i>	0.18	
<i>For >25,000 LF, Deduct</i>	-0.13	
<i>For Broken Line On One Side, Deduct</i>	-0.24	
<i>For Double Broken Line, Deduct</i>	-0.49	
32 17 23 13-0009 SF Solid Area, Epoxy Reflective Pavement Marking.....	6.23	
Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
<i>For 20 Mil Thickness, Add</i>	0.64	
32 17 23 13-0010 EA 6" High, Letter/Number, Epoxy Reflective Pavement Marking.....	3.93	
<i>For 20 Mil Thickness, Add</i>	0.33	
<i>For <10, Add</i>	0.52	
<i>For >50 To 100, Deduct</i>	-0.26	
<i>For >100 To 200, Deduct</i>	-0.35	
<i>For >200, Deduct</i>	-0.69	
32 17 23 13-0011 EA 12" High, Letter/Number, Epoxy Reflective Pavement Marking.....	6.91	
<i>For 20 Mil Thickness, Add</i>	0.82	
<i>For <10, Add</i>	0.79	
<i>For >50 To 100, Deduct</i>	-0.39	
<i>For >100 To 200, Deduct</i>	-0.52	
<i>For >200, Deduct</i>	-1.05	
32 17 23 13-0012 EA 24" High, Letter/Number, Epoxy Reflective Pavement Marking.....	11.65	
<i>For 20 Mil Thickness, Add</i>	1.41	
<i>For <10, Add</i>	1.31	
<i>For >50 To 100, Deduct</i>	-0.65	
<i>For >100 To 200, Deduct</i>	-0.87	
<i>For >200, Deduct</i>	-1.74	
32 17 23 13-0013 EA 36" High, Letter/Number, Epoxy Reflective Pavement Marking.....	22.58	
<i>For 20 Mil Thickness, Add</i>	2.59	
<i>For <10, Add</i>	2.61	
<i>For >50 To 100, Deduct</i>	-1.31	
<i>For >100 To 200, Deduct</i>	-1.74	
<i>For >200, Deduct</i>	-3.49	
32 17 23 13-0014 EA 48" High, Letter/Number, Epoxy Reflective Pavement Marking.....	26.24	
<i>For 20 Mil Thickness, Add</i>	3.21	
<i>For <10, Add</i>	2.93	
<i>For >50 To 100, Deduct</i>	-1.47	
<i>For >100 To 200, Deduct</i>	-1.96	
<i>For >200, Deduct</i>	-3.91	
32 17 23 13-0015 EA 72" High, Letter/Number, Epoxy Reflective Pavement Marking.....	46.99	
<i>For 20 Mil Thickness, Add</i>	5.81	
<i>For <10, Add</i>	5.22	
<i>For >50 To 100, Deduct</i>	-2.61	
<i>For >100 To 200, Deduct</i>	-3.48	
<i>For >200, Deduct</i>	-6.95	
32 17 23 13-0016 EA 96" High, Letter/Number, Epoxy Reflective Pavement Marking.....	62.78	
<i>For 20 Mil Thickness, Add</i>	7.69	
<i>For <10, Add</i>	7.01	
<i>For >50 To 100, Deduct</i>	-3.50	
<i>For >100 To 200, Deduct</i>	-4.67	
<i>For >200, Deduct</i>	-9.34	
32 17 23 13-0017 EA 120" High, Letter/Number, Epoxy Reflective Pavement Marking.....	93.76	
<i>For 20 Mil Thickness, Add</i>	14.86	
<i>For <10, Add</i>	8.68	
<i>For >50 To 100, Deduct</i>	-4.34	
<i>For >100 To 200, Deduct</i>	-5.79	
<i>For >200, Deduct</i>	-11.57	
32 17 23 13-0018 SF Letter/Number, Epoxy Reflective Pavement Marking.....	6.40	
<i>For 20 Mil Thickness, Add</i>	0.65	
32 17 23 13-0019 SF Symbols, Epoxy Reflective Pavement Marking.....	8.18	
Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0020 Alkyd/Solvent Based/Latex Reflective Pavement Marking (32 17 23 13-0001)		
Note: 15 mil thickness.		
32 17 23 13-0021 LF Single 4" Wide Solid Line, Painted Reflective Pavement Striping.....	0.24	
Note: Includes solvent based and latex paints.		
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For >25,000 LF, Deduct</i>	-0.04	
<i>For Broken Line (25% Solid), Deduct</i>	-0.04	
32 17 23 13-0022 LF Single 6" Wide Solid Line, Painted Reflective Pavement Striping.....	0.31	
Note: Includes solvent based and latex paints.		
<i>For Up To 5,000 LF, Add</i>	0.06	
<i>For >25,000 LF, Deduct</i>	-0.05	
<i>For Broken Line (25% Solid), Deduct</i>	-0.06	

32 Exterior Improvements**32 10 Bases, Ballasts, And Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0023	LF		Single 8" Wide Solid Line, Painted Reflective Pavement Striping.....	0.39	
			Note: Includes solvent based and latex paints.		
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
			For Broken Line (25% Solid), Deduct	-0.08	
32 17 23 13-0024	LF		Single 12" Wide Solid Line, Painted Reflective Pavement Striping.....	0.53	
			Note: Includes solvent based and latex paints.		
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	
			For Broken Line (25% Solid), Deduct	-0.11	
32 17 23 13-0025	LF		Double 4" Wide Solid Lines, Painted Reflective Pavement Striping.....	0.36	
			For Up To 5,000 LF, Add	0.07	
			For >25,000 LF, Deduct	-0.05	
			For Broken Line On One Side, Deduct	-0.04	
			For Double Broken Line, Deduct	-0.08	
32 17 23 13-0026	LF		Double 6" Wide Solid Lines, Painted Reflective Pavement Striping.....	0.54	
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	
			For Broken Line On One Side, Deduct	-0.06	
			For Double Broken Line, Deduct	-0.11	
32 17 23 13-0027	SF		Solid Area, Painted Reflective Pavement Striping	5.21	
			Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0028	EA		6" (15 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	3.73	
			Note: Includes solvent based and latex paints.		
			For <10, Add	0.52	
			For >50 To 100, Deduct	-0.26	
			For >100 To 200, Deduct	-0.35	
			For >200, Deduct	-0.69	
32 17 23 13-0029	EA		12" (31 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	6.19	
			Note: Includes solvent based and latex paints.		
			For <10, Add	0.79	
			For >50 To 100, Deduct	-0.39	
			For >100 To 200, Deduct	-0.52	
			For >200, Deduct	-1.05	
32 17 23 13-0030	EA		24" (61 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	10.38	
			Note: Includes solvent based and latex paints.		
			For <10, Add	1.31	
			For >50 To 100, Deduct	-0.65	
			For >100 To 200, Deduct	-0.87	
			For >200, Deduct	-1.74	
32 17 23 13-0031	EA		36" (91 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	20.35	
			Note: Includes solvent based and latex paints.		
			For <10, Add	2.61	
			For >50 To 100, Deduct	-1.31	
			For >100 To 200, Deduct	-1.74	
			For >200, Deduct	-3.49	
32 17 23 13-0032	EA		48" (122 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	23.35	
			Note: Includes solvent based and latex paints.		
			For <10, Add	2.93	
			For >50 To 100, Deduct	-1.47	
			For >100 To 200, Deduct	-1.96	
			For >200, Deduct	-3.91	
32 17 23 13-0033	EA		72" (183 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	41.71	
			Note: Includes solvent based and latex paints.		
			For <10, Add	5.22	
			For >50 To 100, Deduct	-2.61	
			For >100 To 200, Deduct	-3.48	
			For >200, Deduct	-6.95	
32 17 23 13-0034	EA		96" (244 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	55.84	
			Note: Includes solvent based and latex paints.		
			For <10, Add	7.01	
			For >50 To 100, Deduct	-3.50	
			For >100 To 200, Deduct	-4.67	
			For >200, Deduct	-9.34	
32 17 23 13-0035	EA		120" (305 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	78.25	
			Note: Includes solvent based and latex paints.		
			For <10, Add	8.68	
			For >50 To 100, Deduct	-4.34	
			For >100 To 200, Deduct	-5.79	
			For >200, Deduct	-11.57	
32 17 23 13-0036	SF		Letter/Number, Painted Reflective Pavement Marking	5.90	
			Note: Includes solvent based and latex paints.		
32 17 23 13-0037	SF		Symbols, Painted Reflective Pavement Marking	7.08	
			Note: Handicap, railroad, diamond, arrows, etc. Includes solvent based and latex paints.		
32 17 23 13-0038			Pavement Marking (CALTRANS) <small>(32 17 23 13)</small>		
			Note: Per LF of detail.		
32 17 23 13-0039	LF		CALTRANS Detail 1 Centerline, Painted Reflective Pavement Striping	0.21	
			For Up To 5,000 LF, Add	0.04	
			For >25,000 LF, Deduct	-0.03	
32 17 23 13-0040	LF		CALTRANS Detail 2 Centerline, Painted Reflective Pavement Striping	0.29	
			For Up To 5,000 LF, Add	0.06	
			For >25,000 LF, Deduct	-0.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0041 LF CALTRANS Detail 4 Centerline	0.49	
<i>For Up To 5,000 LF, Add</i>	0.10	
<i>For >25,000 LF, Deduct</i>	-0.07	
32 17 23 13-0042 LF CALTRANS Detail 5 Centerline, Painted Reflective Pavement Striping	0.20	
<i>For Up To 5,000 LF, Add</i>	0.04	
<i>For >25,000 LF, Deduct</i>	-0.03	
32 17 23 13-0043 LF CALTRANS Detail 6 Centerline, Painted Reflective Pavement Striping	0.29	
<i>For Up To 5,000 LF, Add</i>	0.06	
<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0044 LF CALTRANS Detail 7 Centerline	0.36	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0045 LF CALTRANS Detail 8 Lanelines, Painted Reflective Pavement Striping	0.21	
<i>For Up To 5,000 LF, Add</i>	0.04	
<i>For >25,000 LF, Deduct</i>	-0.03	
32 17 23 13-0046 LF CALTRANS Detail 9 Lanelines, Painted Reflective Pavement Striping	0.29	
<i>For Up To 5,000 LF, Add</i>	0.06	
<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0047 LF CALTRANS Detail 10 Lanelines	0.49	
<i>For Up To 5,000 LF, Add</i>	0.10	
<i>For >25,000 LF, Deduct</i>	-0.07	
32 17 23 13-0048 LF CALTRANS Detail 11 Lanelines, Painted Reflective Pavement Striping	0.20	
<i>For Up To 5,000 LF, Add</i>	0.04	
<i>For >25,000 LF, Deduct</i>	-0.03	
32 17 23 13-0049 LF CALTRANS Detail 12 Lanelines, Painted Reflective Pavement Striping	0.29	
<i>For Up To 5,000 LF, Add</i>	0.06	
<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0050 LF CALTRANS Detail 13 Lanelines	0.36	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0051 LF CALTRANS Detail 14 Lanelines	0.36	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0052 LF CALTRANS Detail 14A Lanelines, Painted Reflective Pavement Striping	0.29	
<i>For Up To 5,000 LF, Add</i>	0.06	
<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0053 LF CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.26	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For >25,000 LF, Deduct</i>	-0.04	
<i>For Broken Line On One Side, Deduct</i>	-0.03	
<i>For Double Broken Line, Deduct</i>	-0.05	
32 17 23 13-0054 LF CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.60	
<i>For Up To 5,000 LF, Add</i>	0.12	
<i>For >25,000 LF, Deduct</i>	-0.09	
32 17 23 13-0055 LF CALTRANS Detail 17 No Passing Zones-One Direction Lanelines	1.45	
<i>For Up To 5,000 LF, Add</i>	0.29	
<i>For >25,000 LF, Deduct</i>	-0.22	
32 17 23 13-0056 LF CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.26	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For >25,000 LF, Deduct</i>	-0.04	
<i>For Broken Line On One Side, Deduct</i>	-0.03	
<i>For Double Broken Line, Deduct</i>	-0.05	
32 17 23 13-0057 LF CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.51	
<i>For Up To 5,000 LF, Add</i>	0.10	
<i>For >25,000 LF, Deduct</i>	-0.08	
32 17 23 13-0058 LF CALTRANS Detail 20 No Passing Zones-One Direction Lanelines	1.23	
<i>For Up To 5,000 LF, Add</i>	0.25	
<i>For >25,000 LF, Deduct</i>	-0.18	
32 17 23 13-0059 LF CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	0.30	
<i>For Up To 5,000 LF, Add</i>	0.06	
<i>For >25,000 LF, Deduct</i>	-0.05	
<i>For Broken Line On One Side, Deduct</i>	-0.04	
<i>For Double Broken Line, Deduct</i>	-0.08	
32 17 23 13-0060 LF CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	0.64	
<i>For Up To 5,000 LF, Add</i>	0.13	
<i>For >25,000 LF, Deduct</i>	-0.10	
32 17 23 13-0061 LF CALTRANS Detail 23 No Passing Zones-Two Direction Lanelines	1.72	
<i>For Up To 5,000 LF, Add</i>	0.34	
<i>For >25,000 LF, Deduct</i>	-0.26	
32 17 23 13-0062 LF CALTRANS Detail 24 Left Edgelines, Painted Reflective Pavement Striping	0.25	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0063 LF CALTRANS Detail 25 Left Edgelines, Painted Reflective Pavement Striping	0.33	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0064 LF CALTRANS Detail 25A Left Edgelines, Painted Reflective Pavement Striping	0.41	
<i>For Up To 5,000 LF, Add</i>	0.08	
<i>For >25,000 LF, Deduct</i>	-0.06	
32 17 23 13-0065 LF CALTRANS Detail 26 Left Edgelines	0.08	
<i>For Up To 5,000 LF, Add</i>	0.02	
<i>For >25,000 LF, Deduct</i>	-0.01	
32 17 23 13-0066 LF CALTRANS Detail 27 Left Edgelines, Painted Reflective Pavement Striping	0.39	
<i>For Up To 5,000 LF, Add</i>	0.08	
<i>For >25,000 LF, Deduct</i>	-0.06	

32 Exterior Improvements**32 10 Bases, Ballasts, And Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0067	LF		CALTRANS Detail 27B Right Edgelines, Painted Reflective Pavement Striping	0.25	
			<i>For Up To 5,000 LF, Add</i>	0.05	
			<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0068	LF		CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Reflective Pavement Striping.....	0.20	
			<i>For Up To 5,000 LF, Add</i>	0.04	
			<i>For >25,000 LF, Deduct</i>	-0.03	
32 17 23 13-0069	LF		CALTRANS Detail 28 Median Islands, Painted Reflective Pavement Striping.....	0.62	
			<i>For Up To 5,000 LF, Add</i>	0.12	
			<i>For >25,000 LF, Deduct</i>	-0.09	
			<i>For Broken Line On One Side, Deduct</i>	-0.09	
			<i>For Double Broken Line, Deduct</i>	-0.17	
32 17 23 13-0070	LF		CALTRANS Detail 29 Median Islands, Painted Reflective Pavement Striping.....	0.95	
			<i>For Up To 5,000 LF, Add</i>	0.19	
			<i>For >25,000 LF, Deduct</i>	-0.14	
32 17 23 13-0071	LF		CALTRANS Detail 30 Median Islands.....	3.45	
			<i>For Up To 5,000 LF, Add</i>	0.69	
			<i>For >25,000 LF, Deduct</i>	-0.52	
32 17 23 13-0072	LF		CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping.....	0.53	
			<i>For Up To 5,000 LF, Add</i>	0.11	
			<i>For >25,000 LF, Deduct</i>	-0.08	
			<i>For Broken Line On One Side, Deduct</i>	-0.05	
			<i>For Double Broken Line, Deduct</i>	-0.11	
32 17 23 13-0073	LF		CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping.....	0.94	
			<i>For Up To 5,000 LF, Add</i>	0.19	
			<i>For >25,000 LF, Deduct</i>	-0.14	
32 17 23 13-0074	LF		CALTRANS Detail 33 Two-Way Left Turn Lanes.....	2.36	
			<i>For Up To 5,000 LF, Add</i>	0.47	
			<i>For >25,000 LF, Deduct</i>	-0.35	
32 17 23 13-0075	LF		CALTRANS Detail 34 Intersection Treatments, Painted Reflective Pavement Striping	0.51	
			<i>For Up To 5,000 LF, Add</i>	0.10	
			<i>For >25,000 LF, Deduct</i>	-0.08	
32 17 23 13-0076	LF		CALTRANS Detail 34A Intersection Treatments, Painted Reflective Pavement Striping.....	0.26	
			<i>For Up To 5,000 LF, Add</i>	0.05	
			<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0077	LF		CALTRANS Detail 35 Intersection Treatments, Painted Reflective Pavement Striping	0.61	
			<i>For Up To 5,000 LF, Add</i>	0.12	
			<i>For >25,000 LF, Deduct</i>	-0.09	
32 17 23 13-0078	LF		CALTRANS Detail 35A Intersection Treatments, Painted Reflective Pavement Striping.....	0.26	
			<i>For Up To 5,000 LF, Add</i>	0.05	
			<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0079	LF		CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Reflective Pavement Striping.....	1.12	
			<i>For Up To 5,000 LF, Add</i>	0.22	
			<i>For >25,000 LF, Deduct</i>	-0.17	
32 17 23 13-0080	LF		CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Reflective Pavement Striping.....	0.75	
			<i>For Up To 5,000 LF, Add</i>	0.15	
			<i>For >25,000 LF, Deduct</i>	-0.11	
32 17 23 13-0081	LF		CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Reflective Pavement Striping	0.80	
			<i>For Up To 5,000 LF, Add</i>	0.16	
			<i>For >25,000 LF, Deduct</i>	-0.12	
32 17 23 13-0082	LF		CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Reflective Pavement Striping	0.70	
			<i>For Up To 5,000 LF, Add</i>	0.14	
			<i>For >25,000 LF, Deduct</i>	-0.11	
32 17 23 13-0083	LF		CALTRANS Detail 37A Lane Drop At Exit Ramps	1.16	
			<i>For Up To 5,000 LF, Add</i>	0.23	
			<i>For >25,000 LF, Deduct</i>	-0.17	
32 17 23 13-0084	LF		CALTRANS Detail 37B Lane Drop At Intersections, Painted Reflective Pavement Striping	0.70	
			<i>For Up To 5,000 LF, Add</i>	0.14	
			<i>For >25,000 LF, Deduct</i>	-0.11	
32 17 23 13-0085	LF		CALTRANS Detail 37C Lane Drop At Intersections.....	1.16	
			<i>For Up To 5,000 LF, Add</i>	0.23	
			<i>For >25,000 LF, Deduct</i>	-0.17	
32 17 23 13-0086	LF		CALTRANS Detail 38 Channelizing Line, Painted Reflective Pavement Striping	0.68	
			<i>For Up To 5,000 LF, Add</i>	0.14	
			<i>For >25,000 LF, Deduct</i>	-0.10	
32 17 23 13-0087	LF		CALTRANS Detail 38A Channelizing Line, Painted Reflective Pavement Striping.....	0.52	
			<i>For Up To 5,000 LF, Add</i>	0.10	
			<i>For >25,000 LF, Deduct</i>	-0.08	
32 17 23 13-0088	LF		CALTRANS Detail 38B Channelizing Line, Painted Reflective Pavement Striping.....	0.85	
			<i>For Up To 5,000 LF, Add</i>	0.17	
			<i>For >25,000 LF, Deduct</i>	-0.13	
32 17 23 13-0089	LF		CALTRANS Detail 38C Channelizing Line.....	1.72	
			<i>For Up To 5,000 LF, Add</i>	0.34	
			<i>For >25,000 LF, Deduct</i>	-0.26	
32 17 23 13-0090	LF		CALTRANS Detail 39 Bike Lane Line, Painted Reflective Pavement Striping	0.30	
			<i>For Up To 5,000 LF, Add</i>	0.06	
			<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0091	LF		CALTRANS Detail 39A Intersection Line Bike Lane, Painted Reflective Pavement Striping	0.25	
			<i>For Up To 5,000 LF, Add</i>	0.05	
			<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0092	LF		CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Reflective Pavement Striping.....	0.20	
			<i>For Up To 5,000 LF, Add</i>	0.04	
			<i>For >25,000 LF, Deduct</i>	-0.03	
32 17 23 13-0093	LF		CALTRANS Detail 40A Lane Line Extensions Through Intersections.....	0.83	
			<i>For Up To 5,000 LF, Add</i>	0.17	
			<i>For >25,000 LF, Deduct</i>	-0.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0094 LF CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Reflective Pavement Striping.....	0.20	
<i>For Up To 5,000 LF, Add</i>	0.04	
<i>For >25,000 LF, Deduct</i>	-0.03	
32 17 23 13-0095 LF CALTRANS Detail 41A Center Line Extensions Through Intersections.....	0.83	
<i>For Up To 5,000 LF, Add</i>	0.17	
<i>For >25,000 LF, Deduct</i>	-0.12	
32 17 23 13-0096 EA CALTRANS 10' Arrow, Type I, Painted Reflective Pavement Marking.....	94.17	
<i>For <10, Add</i>	12.69	
<i>For >50 To 100, Deduct</i>	-6.35	
<i>For >100 To 200, Deduct</i>	-8.46	
<i>For >200, Deduct</i>	-16.92	
32 17 23 13-0097 EA CALTRANS 18' Arrow, Type I, Painted Reflective Pavement Marking.....	165.15	
<i>For <10, Add</i>	22.21	
<i>For >50 To 100, Deduct</i>	-11.10	
<i>For >100 To 200, Deduct</i>	-14.81	
<i>For >200, Deduct</i>	-29.61	
32 17 23 13-0098 EA CALTRANS 24' Arrow, Type I, Painted Reflective Pavement Marking.....	207.32	
<i>For <10, Add</i>	27.92	
<i>For >50 To 100, Deduct</i>	-13.96	
<i>For >100 To 200, Deduct</i>	-18.61	
<i>For >200, Deduct</i>	-37.22	
32 17 23 13-0099 EA CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Reflective Pavement Marking.....	301.50	
<i>For <10, Add</i>	40.61	
<i>For >50 To 100, Deduct</i>	-20.30	
<i>For >100 To 200, Deduct</i>	-27.07	
<i>For >200, Deduct</i>	-54.15	
32 17 23 13-0100 EA CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Reflective Pavement Marking.....	395.67	
<i>For <10, Add</i>	53.30	
<i>For >50 To 100, Deduct</i>	-26.65	
<i>For >100 To 200, Deduct</i>	-35.53	
<i>For >200, Deduct</i>	-71.07	
32 17 23 13-0101 EA CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Reflective Pavement Marking.....	278.30	
<i>For <10, Add</i>	37.44	
<i>For >50 To 100, Deduct</i>	-18.72	
<i>For >100 To 200, Deduct</i>	-24.96	
<i>For >200, Deduct</i>	-49.92	
32 17 23 13-0102 EA CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Reflective Pavement Marking.....	485.62	
<i>For <10, Add</i>	65.36	
<i>For >50 To 100, Deduct</i>	-32.68	
<i>For >100 To 200, Deduct</i>	-43.57	
<i>For >200, Deduct</i>	-87.14	
32 17 23 13-0103 EA CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Reflective Pavement Marking.....	99.09	
<i>For <10, Add</i>	13.32	
<i>For >50 To 100, Deduct</i>	-6.66	
<i>For >100 To 200, Deduct</i>	-8.88	
<i>For >200, Deduct</i>	-17.77	
32 17 23 13-0104 EA CALTRANS 24' Arrow, Type V, Painted Reflective Pavement Marking.....	217.15	
<i>For <10, Add</i>	29.19	
<i>For >50 To 100, Deduct</i>	-14.59	
<i>For >100 To 200, Deduct</i>	-19.46	
<i>For >200, Deduct</i>	-38.92	
32 17 23 13-0105 EA CALTRANS 18' Arrow, Type VI, Painted Reflective Pavement Marking.....	278.30	
<i>For <10, Add</i>	37.44	
<i>For >50 To 100, Deduct</i>	-18.72	
<i>For >100 To 200, Deduct</i>	-24.96	
<i>For >200, Deduct</i>	-49.92	
32 17 23 13-0106 EA CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Reflective Pavement Marking.....	179.33	
<i>For <10, Add</i>	24.11	
<i>For >50 To 100, Deduct</i>	-12.06	
<i>For >100 To 200, Deduct</i>	-16.07	
<i>For >200, Deduct</i>	-32.15	
32 17 23 13-0107 EA CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Reflective Pavement Marking.....	236.13	
<i>For <10, Add</i>	31.73	
<i>For >50 To 100, Deduct</i>	-15.86	
<i>For >100 To 200, Deduct</i>	-21.15	
<i>For >200, Deduct</i>	-42.30	
32 17 23 13-0108 EA CALTRANS 5' Arrow, Bike Lane, Painted Reflective Pavement Marking.....	47.09	
<i>For <10, Add</i>	6.35	
<i>For >50 To 100, Deduct</i>	-3.17	
<i>For >100 To 200, Deduct</i>	-4.23	
<i>For >200, Deduct</i>	-8.46	
32 17 23 13-0109 EA CALTRANS Railroad Crossing Symbol, Painted Reflective Pavement Marking.....	449.72	
Note: Excludes variable width transverse lines.		
<i>For <10, Add</i>	60.28	
<i>For >50 To 100, Deduct</i>	-30.14	
<i>For >100 To 200, Deduct</i>	-40.19	
<i>For >200, Deduct</i>	-80.37	
32 17 23 13-0110 SF CALTRANS Solid Area, Painted Reflective Pavement Marking.....	5.84	
32 17 23 13-0111 EA CALTRANS Bike Lane Symbol Without Person, Painted Reflective Pavement Marking.....	41.89	
Note: Approximate overall dimensions: 4' width x 8' height.		
<i>For <10, Add</i>	4.57	
<i>For >50 To 100, Deduct</i>	-2.28	
<i>For >100 To 200, Deduct</i>	-3.05	
<i>For >200, Deduct</i>	-6.09	

32 Exterior Improvements
32 10 Bases, Ballasts, And Paving
32 17 Paving Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0112	EA		CALTRANS Bike Lane Symbol With Person, Painted Reflective Pavement Marking.....	44.34	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For <10, Add	4.82	
			For >50 To 100, Deduct	-2.41	
			For >100 To 200, Deduct	-3.21	
			For >200, Deduct	-6.43	
32 17 23 13-0113	EA		CALTRANS Diamond Symbol, Painted Reflective Pavement Marking.....	75.20	
			For <10, Add	10.15	
			For >50 To 100, Deduct	-5.08	
			For >100 To 200, Deduct	-6.77	
			For >200, Deduct	-13.54	
32 17 23 13-0114	EA		CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Reflective Pavement Marking.....	152.78	
			For <10, Add	20.56	
			For >50 To 100, Deduct	-10.28	
			For >100 To 200, Deduct	-13.71	
			For >200, Deduct	-27.41	
32 17 23 13-0115	EA		CALTRANS Bike Loop Detector Symbol, Painted Reflective Pavement Marking.....	33.46	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For <10, Add	4.82	
			For >50 To 100, Deduct	-2.41	
			For >100 To 200, Deduct	-3.21	
			For >200, Deduct	-6.43	
32 17 23 13-0116	SF		CALTRANS Letter/Number, Painted Reflective Pavement Marking	5.92	
32 17 23 13-0117	SF		CALTRANS Symbols, Painted Reflective Pavement Marking	6.60	
			Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0118 Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 13)					
32 17 23 13-0119 Painted Pavement Marking For Parking Areas (32 17 23 13-0118)					
32 17 23 13-0120	LF		Single 4" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	0.96	
32 17 23 13-0121	LF		Single 6" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.05	
32 17 23 13-0122	LF		Single 8" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.10	
32 17 23 13-0123	LF		Single 12" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.23	
32 17 23 13-0124	SF		Solid Area, Painted Pavement Marking For Parking Areas.....	5.22	
			Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0125	EA		6" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	3.63	
			For Up To 10, Add	0.51	
			For >50 To 100, Deduct	-0.25	
			For >100 To 200, Deduct	-0.34	
			For >200, Deduct	-0.68	
32 17 23 13-0126	EA		12" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	5.99	
			For Up To 10, Add	0.76	
			For >50 To 100, Deduct	-0.38	
			For >100 To 200, Deduct	-0.51	
			For >200, Deduct	-1.01	
32 17 23 13-0127	EA		24" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	10.06	
			For Up To 10, Add	1.27	
			For >50 To 100, Deduct	-0.63	
			For >100 To 200, Deduct	-0.85	
			For >200, Deduct	-1.69	
32 17 23 13-0128	EA		36" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	18.89	
			For Up To 10, Add	2.41	
			For >50 To 100, Deduct	-1.21	
			For >100 To 200, Deduct	-1.61	
			For >200, Deduct	-3.21	
32 17 23 13-0129	EA		42" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	25.23	
			For Up To 10, Add	3.30	
			For >50 To 100, Deduct	-1.65	
			For >100 To 200, Deduct	-2.20	
			For >200, Deduct	-4.40	
32 17 23 13-0130	EA		48" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	30.74	
			For Up To 10, Add	4.06	
			For >50 To 100, Deduct	-2.03	
			For >100 To 200, Deduct	-2.71	
			For >200, Deduct	-5.41	
32 17 23 13-0131	EA		72" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	40.54	
			For Up To 10, Add	5.08	
			For >50 To 100, Deduct	-2.54	
			For >100 To 200, Deduct	-3.38	
			For >200, Deduct	-6.77	
32 17 23 13-0132	EA		Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	68.91	
			Note: Approximate overall dimensions: 3-1/2' width x 10' height.		
32 17 23 13-0133	EA		Turn Lane Arrow, Painted Pavement Marking For Parking Areas.....	77.16	
			Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 13-0134	EA		Dual Turn Lane Arrow, Painted Pavement Marking For Parking Areas	105.75	
			Note: Approximate overall dimensions: 11' width x 8' height.		
32 17 23 13-0135	EA		Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	107.66	
			Note: Approximate overall dimensions: 7' width x 13' height.		
32 17 23 13-0136	EA		Dual Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	137.28	
			Note: Approximate overall dimensions: 9' width x 15' height.		
32 17 23 13-0137	EA		Handicap Symbol For Standard Parking Stalls, Painted Pavement Marking For Parking Areas	29.45	
			Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.		
			For Blue Background With White Symbol, Add	19.81	
			For Blue Background With White Symbol And Border, Add	24.76	



Exterior Improvements		32
Bases, Ballasts, And Paving		32 10
Paving Specialties		32 17

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0138 EA Handicap Symbol For Van Parking Stalls, Painted Pavement Marking For Parking Areas 41.07 Note: Approximate overall dimensions: 4-1/3' width x 5' height. White or blue symbol. Excludes striping. For Blue Background With White Symbol, Add 38.30 For Blue Background With White Symbol And Border, Add 47.88		
32 17 23 13-0139 Painted Curbs (32 17 23 13) Note: All colors.		
32 17 23 13-0140 LF Reflective Painted Curb 2.70		
32 17 23 13-0141 LF Reflective Painted Curb And Gutter 5.09		
32 17 23 13-0142 LF Painted Curb 2.18		
32 17 23 13-0143 LF Painted Curb And Gutter 4.61		
32 17 23 13-0144 Markings For Outdoor Play Areas, Courts (32 17 23 13)		
32 17 23 13-0145 LF 2" Wide Marking For Outdoor Play Areas 0.72		
32 17 23 13-0146 LF 3" Wide Marking For Outdoor Play Areas 0.82		
32 17 23 13-0147 LF 4" Wide Marking For Outdoor Play Areas 0.92		
32 17 23 13-0148 LF 6" Wide Marking For Outdoor Play Areas 1.07		
32 17 23 13-0149 EA Paint Playground Game Lines On Asphalt Or Concrete (Hop Scotch, 4 Square, Numbers Games, Etcetera) 284.06		
32 17 23 23 Raised Pavement Markings (32 17 23)		
32 17 23 23-0001 Raised Pavement Markers (RPMs) (32 17 23 23)		
32 17 23 23-0002 EA One-Way Reflective, Raised Pavement Marker (RPM) 3.80 2.13 Note: Type G, H or R For >100, Deduct -0.38		
32 17 23 23-0003 EA Two-Way Reflective, Raised Pavement Marker (RPM) 3.99 2.13 Note: Type B, C, D, AC, RA or RR For >100, Deduct -0.40		
32 17 23 23-0004 EA 4" Diameter, Round Reflective, Raised Pavement Marker (RPM) 4.67 2.13 For >100, Deduct -0.47		
32 17 23 23-0005 EA 4" Diameter, Non-Reflective, Raised Pavement Marker (RPM) 3.55 2.13 Note: Type A or AY For >100, Deduct -0.36		
32 17 23 23-0006 Snowplowable Pavement Markers (32 17 23 23)		
32 17 23 23-0007 EA One-Way Reflective, Snowplowable Pavement Marker With Center Rail 53.68 25.14 Note: Type G, H or R		
32 17 23 23-0008 EA Two-Way Reflective, Snowplowable Pavement Marker With Center Rail 53.85 25.14 Note: Type B, C, D, AC, RA or RR		
32 17 23 23-0009 EA Removal And Replacement Of Reflector For One-Way Reflective, Recessed (Plowable) Pavement Marker 15.00		
32 17 23 23-0010 EA Removal And Replacement Of Reflectors For Two-Way Reflective, Recessed (Plowable) Pavement Marker 19.36		
32 17 23 33 Plastic Pavement Markings (32 17 23)		
32 17 23 33-0001 Thermoplastic Pavement Striping, Letters, Symbols And Markers For Roads (32 17 23 33) Note: Includes primers, adhesive and glass beads where required. For broken line modifier quantity use total lane length.		
32 17 23 33-0002 Thermoplastic Reflective Pavement Marking (32 17 23 33-0001) Note: 90 mil thickness.		
32 17 23 33-0003 LF Single 4" Wide Solid Line, Thermoplastic Reflective Pavement Striping 0.96 For Up To 5,000 LF, Add 0.19 For >25,000 LF, Deduct -0.14 For 60 mils Thick, Deduct -0.12 For 125 mils Thick, Add 0.16 For Broken Line (25% Solid), Deduct -0.53		
32 17 23 33-0004 LF Single 6" Wide Solid Line, Thermoplastic Reflective Pavement Striping 1.35 For Up To 5,000 LF, Add 0.27 For >25,000 LF, Deduct -0.20 For 60 mils Thick, Deduct -0.18 For 125 mils Thick, Add 0.23 For Broken Line (25% Solid), Deduct -0.78		
32 17 23 33-0005 LF Single 8" Wide Solid Line, Thermoplastic Reflective Pavement Striping 1.78 For Up To 5,000 LF, Add 0.36 For >25,000 LF, Deduct -0.27 For 60 mils Thick, Deduct -0.24 For 125 mils Thick, Add 0.31 For Broken Line (25% Solid), Deduct -1.04		
32 17 23 33-0006 LF Single 12" Wide Solid Line, Thermoplastic Reflective Pavement Striping 2.60 For Up To 5,000 LF, Add 0.52 For >25,000 LF, Deduct -0.39 For 60 mils Thick, Deduct -0.37 For 125 mils Thick, Add 0.47 For Broken Line (25% Solid), Deduct -1.57		

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32 10 Bases, Ballasts, And Paving
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0007	LF		Double 4" Wide Solid Lines, Thermoplastic Reflective Pavement Striping	1.78	
			For Up To 5,000 LF, Add	0.36	
			For >25,000 LF, Deduct	-0.27	
			For 60 mils Thick, Deduct	-0.24	
			For 125 mils Thick, Add	0.31	
			For Broken Line On One Side, Deduct	-0.52	
			For Double Broken Line, Deduct	-1.04	
32 17 23 33-0008	LF		Double 6" Wide Solid Lines, Thermoplastic Reflective Pavement Striping	2.60	
			For Up To 5,000 LF, Add	0.52	
			For >25,000 LF, Deduct	-0.39	
			For 60 mils Thick, Deduct	-0.37	
			For 125 mils Thick, Add	0.47	
			For Broken Line On One Side, Deduct	-0.78	
			For Double Broken Line, Deduct	-1.57	
32 17 23 33-0009	SF		Solid Area, Thermoplastic Reflective Pavement Marking	7.14	
			Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
			For 60 mils Thick, Deduct	-0.36	
			For 125 mils Thick, Add	0.47	
32 17 23 33-0010	EA		6" High, Letter/Number, Thermoplastic Reflective Pavement Marking	4.84	
			For Up To 10, Add	0.57	
			For >50 To 100, Deduct	-0.29	
			For >100 To 200, Deduct	-0.38	
			For >200, Deduct	-0.76	
			For 60 mils Thick, Deduct	-0.18	
			For 125 mils Thick, Add	0.23	
32 17 23 33-0011	EA		12" High, Letter/Number, Thermoplastic Reflective Pavement Marking	9.49	
			For Up To 10, Add	0.86	
			For >50 To 100, Deduct	-0.43	
			For >100 To 200, Deduct	-0.58	
			For >200, Deduct	-1.15	
			For 60 mils Thick, Deduct	-0.65	
			For 125 mils Thick, Add	0.84	
32 17 23 33-0012	EA		24" High, Letter/Number, Thermoplastic Reflective Pavement Marking	16.10	
			For Up To 10, Add	1.43	
			For >50 To 100, Deduct	-0.72	
			For >100 To 200, Deduct	-0.96	
			For >200, Deduct	-1.91	
			For 60 mils Thick, Deduct	-1.14	
			For 125 mils Thick, Add	1.47	
32 17 23 33-0013	EA		36" High, Letter/Number, Thermoplastic Reflective Pavement Marking	30.69	
			For Up To 10, Add	2.88	
			For >50 To 100, Deduct	-1.44	
			For >100 To 200, Deduct	-1.92	
			For >200, Deduct	-3.84	
			For 60 mils Thick, Deduct	-2.01	
			For 125 mils Thick, Add	2.59	
32 17 23 33-0014	EA		48" High, Letter/Number, Thermoplastic Reflective Pavement Marking	36.43	
			For Up To 10, Add	3.22	
			For >50 To 100, Deduct	-1.61	
			For >100 To 200, Deduct	-2.15	
			For >200, Deduct	-4.30	
			For 60 mils Thick, Deduct	-2.61	
			For 125 mils Thick, Add	3.36	
32 17 23 33-0015	EA		72" High, Letter/Number, Thermoplastic Reflective Pavement Marking	65.54	
			For Up To 10, Add	5.74	
			For >50 To 100, Deduct	-2.87	
			For >100 To 200, Deduct	-3.82	
			For >200, Deduct	-7.65	
			For 60 mils Thick, Deduct	-4.78	
			For 125 mils Thick, Add	6.14	
32 17 23 33-0016	EA		96" High, Letter/Number, Thermoplastic Reflective Pavement Marking	87.27	
			For Up To 10, Add	7.70	
			For >50 To 100, Deduct	-3.85	
			For >100 To 200, Deduct	-5.14	
			For >200, Deduct	-10.27	
			For 60 mils Thick, Deduct	-6.29	
			For 125 mils Thick, Add	8.08	
32 17 23 33-0017	EA		120" High, Letter/Number, Thermoplastic Reflective Pavement Marking	143.79	
			For Up To 10, Add	9.54	
			For >50 To 100, Deduct	-4.77	
			For >100 To 200, Deduct	-6.36	
			For >200, Deduct	-12.72	
			For 60 mils Thick, Deduct	-14.03	
			For 125 mils Thick, Add	18.04	
32 17 23 33-0018	SF		Letter/Number, Thermoplastic Reflective Pavement Marking	8.34	
			For 60 mils Thick, Deduct	-0.45	
			For 125 mils Thick, Add	0.58	
32 17 23 33-0019	SY		Cross Hatch, Thermoplastic Reflective Pavement Marking	56.74	
			For 60 mils Thick, Deduct	-3.27	
			For 125 mils Thick, Add	4.20	
32 17 23 33-0020	EA		Handicap Symbol, Thermoplastic Reflective Pavement Marking	220.98	
			For 60 mils Thick, Deduct	-10.41	
			For 125 mils Thick, Add	13.38	
32 17 23 33-0021	SY		Solid Area, Thermoplastic Reflective Pavement Marking	70.11	
			For 60 mils Thick, Deduct	-3.27	
			For 125 mils Thick, Add	4.20	



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32 17 23 33-0022 EA Railroad Symbol, Thermoplastic Reflective Pavement Marking.....	654.80	
<i>For 60 mils Thick, Deduct</i>	-31.68	
<i>For 125 mils Thick, Add</i>	40.73	
32 17 23 33-0023 EA Bike Lane Symbol, Thermoplastic Reflective Pavement Marking.....	115.76	
Note: Approximate overall dimensions: 4' width x 8' height.		
<i>For 60 mils Thick, Deduct</i>	-14.34	
<i>For 125 mils Thick, Add</i>	18.43	
32 17 23 33-0024 EA Diamond Symbol, Thermoplastic Reflective Pavement Marking.....	105.69	
<i>For 60 mils Thick, Deduct</i>	-4.98	
<i>For 125 mils Thick, Add</i>	6.40	
32 17 23 33-0025 SF Symbols, Thermoplastic Reflective Pavement Marking.....	9.61	
Note: Handicap, railroad, diamond, arrows, etc.		
<i>For 60 mils Thick, Deduct</i>	-0.45	
<i>For 125 mils Thick, Add</i>	0.58	
32 17 23 33-0026 EA 10' Arrow, Type I, Thermoplastic Reflective Pavement Marking.....	134.50	
<i>For 60 mils Thick, Deduct</i>	-6.34	
<i>For 125 mils Thick, Add</i>	8.15	
32 17 23 33-0027 EA 18' Arrow, Type I, Thermoplastic Reflective Pavement Marking.....	240.20	
<i>For 60 mils Thick, Deduct</i>	-11.31	
<i>For 125 mils Thick, Add</i>	14.55	
32 17 23 33-0028 EA 24' Arrow, Type I, Thermoplastic Reflective Pavement Marking.....	297.85	
<i>For 60 mils Thick, Deduct</i>	-14.03	
<i>For 125 mils Thick, Add</i>	18.04	
32 17 23 33-0029 EA 24' Arrow With Single (L or R) Turn Arrow, Type II, Thermoplastic Reflective Pavement Marking.....	432.36	
<i>For 60 mils Thick, Deduct</i>	-20.36	
<i>For 125 mils Thick, Add</i>	26.18	
32 17 23 33-0030 EA 24' Arrow With Both (L and R) Turn Arrows, Type II, Thermoplastic Reflective Pavement Marking.....	566.88	
<i>For 60 mils Thick, Deduct</i>	-26.70	
<i>For 125 mils Thick, Add</i>	34.33	
32 17 23 33-0031 EA 24' Arrow Single (L or R) Turn Arrow, Type III, Thermoplastic Reflective Pavement Marking.....	403.53	
<i>For 60 mils Thick, Deduct</i>	-19.01	
<i>For 125 mils Thick, Add</i>	24.44	
32 17 23 33-0032 EA 24' Arrow Both (L and R) Turn Arrows, Type III, Thermoplastic Reflective Pavement Marking.....	701.39	
<i>For 60 mils Thick, Deduct</i>	-33.04	
<i>For 125 mils Thick, Add</i>	42.48	
32 17 23 33-0033 EA 8' Turn Arrow (L or R), Type IV, Thermoplastic Reflective Pavement Marking.....	144.12	
<i>For 60 mils Thick, Deduct</i>	-6.79	
<i>For 125 mils Thick, Add</i>	8.73	
32 17 23 33-0034 EA 24' Arrow, Type V, Thermoplastic Reflective Pavement Marking.....	317.06	
<i>For 60 mils Thick, Deduct</i>	-14.93	
<i>For 125 mils Thick, Add</i>	19.20	
32 17 23 33-0035 EA 18' Arrow, Type VI, Thermoplastic Reflective Pavement Marking.....	403.53	
<i>For 60 mils Thick, Deduct</i>	-19.01	
<i>For 125 mils Thick, Add</i>	24.44	
32 17 23 33-0036 EA 13' Arrow With Single (L or R) Turn Arrow, Type VII, Thermoplastic Reflective Pavement Marking.....	259.42	
<i>For 60 mils Thick, Deduct</i>	-12.22	
<i>For 125 mils Thick, Add</i>	15.71	
32 17 23 33-0037 EA 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Thermoplastic Reflective Pavement Marking.....	345.89	
<i>For 60 mils Thick, Deduct</i>	-16.29	
<i>For 125 mils Thick, Add</i>	20.95	
32 17 23 33-0038 EA 5' Arrow, Bike Lane, Thermoplastic Reflective Pavement Marking.....	67.26	
<i>For 60 mils Thick, Deduct</i>	-3.17	
<i>For 125 mils Thick, Add</i>	4.07	
32 17 23 33-0039 Thermoplastic Reflective Pavement Striping By Hand For Repairs (32 17 23 33-0001)		
32 17 23 33-0040 LF Single 4" Wide Solid Line, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	2.49	
<i>For 60 mils Thick, Deduct</i>	-0.12	
<i>For 125 mils Thick, Add</i>	0.16	
32 17 23 33-0041 LF Single 6" Wide Solid Line, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	3.08	
<i>For 60 mils Thick, Deduct</i>	-0.18	
<i>For 125 mils Thick, Add</i>	0.23	
32 17 23 33-0042 LF Single 8" Wide Solid Line, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	3.76	
<i>For 60 mils Thick, Deduct</i>	-0.24	
<i>For 125 mils Thick, Add</i>	0.31	
32 17 23 33-0043 LF Single 12" Wide Solid Line, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	5.38	
<i>For 60 mils Thick, Deduct</i>	-0.37	
<i>For 125 mils Thick, Add</i>	0.47	
32 17 23 33-0044 LF Single 24" Wide Solid Line, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	9.51	
<i>For 60 mils Thick, Deduct</i>	-0.73	
<i>For 125 mils Thick, Add</i>	0.94	
32 17 23 33-0045 Preformed, Patterned Reflective Pavement Marking Tape (32 17 23 33-0001)		
Note: Applied with pressure sensitive adhesive. Includes adhesive. 60 mil thickness. (3M Stamark 380 Series).		
32 17 23 33-0046 LF Single 4" Wide Solid Line, Preformed Tape, Patterned Thermoplastic Reflective Pavement Striping.....	1.97	
<i>For Up To 5,000 LF, Add</i>	0.39	
<i>For >25,000 LF, Deduct</i>	-0.30	
32 17 23 33-0047 LF Single 6" Wide Solid Line, Preformed Tape, Patterned Thermoplastic Reflective Pavement Striping.....	2.90	
<i>For Up To 5,000 LF, Add</i>	0.58	
<i>For >25,000 LF, Deduct</i>	-0.44	
32 17 23 33-0048 LF Single 8" Wide Solid Line, Preformed Tape, Patterned Thermoplastic Reflective Pavement Striping.....	3.84	
<i>For Up To 5,000 LF, Add</i>	0.77	
<i>For >25,000 LF, Deduct</i>	-0.58	

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32 17 23 33-0049 LF Single 12" Wide Solid Line, Preformed Tape, Patterned Thermoplastic Reflective Pavement Striping	5.68	
For Up To 5,000 LF, Add	1.14	
For >25,000 LF, Deduct	-0.85	
32 17 23 33-0050 SF Preformed Solid Area, Patterned Thermoplastic Reflective Pavement Marking Tape	16.94	
Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 33-0051 EA 6" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape	25.00	
For <10, Add	1.04	
For >50 To 100, Deduct	-0.52	
For >100 To 200, Deduct	-0.69	
For >200, Deduct	-1.39	
32 17 23 33-0052 EA 12" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape	43.17	
For <10, Add	1.32	
For >50 To 100, Deduct	-0.66	
For >100 To 200, Deduct	-0.88	
For >200, Deduct	-1.76	
32 17 23 33-0053 EA 24" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape	74.81	
For <10, Add	2.61	
For >50 To 100, Deduct	-1.31	
For >100 To 200, Deduct	-1.74	
For >200, Deduct	-3.49	
32 17 23 33-0054 EA 36" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape	110.69	
For <10, Add	5.23	
For >50 To 100, Deduct	-2.61	
For >100 To 200, Deduct	-3.49	
For >200, Deduct	-6.97	
32 17 23 33-0055 EA 48" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape	129.26	
For <10, Add	5.86	
For >50 To 100, Deduct	-2.93	
For >100 To 200, Deduct	-3.91	
For >200, Deduct	-7.82	
32 17 23 33-0056 EA 72" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape	170.90	
For <10, Add	10.43	
For >50 To 100, Deduct	-5.22	
For >100 To 200, Deduct	-6.95	
For >200, Deduct	-13.91	
32 17 23 33-0057 EA 96" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape	219.22	
For <10, Add	14.01	
For >50 To 100, Deduct	-7.01	
For >100 To 200, Deduct	-9.34	
For >200, Deduct	-18.68	
32 17 23 33-0058 EA 120" High, Preformed Letter/Number, Patterned Thermoplastic Reflective Pavement Marking Tape	274.41	
For <10, Add	17.36	
For >50 To 100, Deduct	-8.68	
For >100 To 200, Deduct	-11.57	
For >200, Deduct	-23.15	
32 17 23 33-0059 SF Preformed Arrow, Patterned Thermoplastic Reflective Pavement Marking Tape	17.62	
32 17 23 33-0060 SF Preformed Symbol, Patterned Thermoplastic Reflective Pavement Marking Tape	18.89	
Note: Handicap, railroad, diamond symbol, etc.		
32 17 23 33-0061 Preformed, Thermoplastic Reflective Pavement Marking (32 17 23 33-0001)		
Note: Heat applied. (Flint PreMark or HotTape Series).		
32 17 23 33-0062 EA Preformed Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	147.13	
Note: Approximate overall dimensions: 4' width x 8' height.		
32 17 23 33-0063 EA Preformed Railroad Crossing Symbol, 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	387.07	
Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.		
32 17 23 33-0064 EA Preformed Preferential Lane Symbol (Diamond), 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	91.51	
Note: Approximate overall dimensions: 3-1/4' width x 13' height.		
32 17 23 33-0065 EA 6' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	83.44	
Note: Approximate overall dimensions: 2' width x 6' height.		
32 17 23 33-0066 EA 9-1/2' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	138.43	
Note: Approximate overall dimensions: 3-1/4' width x 9-1/2' height.		
32 17 23 33-0067 EA 4' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	92.03	
Note: Approximate overall dimensions: 3' width x 4' height.		
32 17 23 33-0068 EA 8' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	150.89	
Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 33-0069 EA Preformed Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	239.65	
Note: Approximate overall dimensions: 7-1/4' width x 12-3/4' height.		
32 17 23 33-0070 EA Preformed Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	346.48	
Note: Approximate overall dimensions: 11-1/4' width x 13-1/4' height.		
32 17 23 33-0071 EA Preformed Elongated Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	146.73	
Note: Approximate overall dimensions: 1-2/3' width x 12' height.		
32 17 23 33-0072 EA Preformed Elongated Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	159.19	
Note: Approximate overall dimensions: 3' width x 12' height.		
32 17 23 33-0073 EA Preformed Elongated Dual Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	267.60	
Note: Approximate overall dimensions: 5-1/2' width x 12' height.		
32 17 23 33-0074 EA Preformed Elongated Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	248.96	
Note: Approximate overall dimensions: 3-1/2' width x 20' height.		
32 17 23 33-0075 EA Preformed Elongated Lane Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	251.50	
Note: Approximate overall dimensions: 5-1/2' width x 20' height.		
32 17 23 33-0076 EA Preformed Lane-Reduction Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	327.53	
Note: Approximate overall dimensions: 5-1/2' width x 18' height.		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0077 Pavement Marking (Monterey County) <small>(32 17 23 33-0001)</small>		
32 17 23 33-0078 SF Thermoplastic Pavement Marking (Monterey County).....	7.27	
32 17 23 33-0079 Thermoplastic Pavement Striping, Letters And Symbols For Parking Areas <small>(32 17 23 33)</small>		
32 17 23 33-0080 Thermoplastic Pavement Marking Tape For Parking Areas <small>(32 17 23 33-0079)</small>		
Note: Heat applied. (Flint PreMark Series).		
32 17 23 33-0081 EA 28" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	56.38	
Note: White or blue symbol. Excludes striping.		
32 17 23 33-0082 EA 39" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	176.57	
32 17 23 33-0083 EA 40" x 40" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	107.06	
Note: White symbol on blue background. Excludes striping.		
32 17 23 33-0084 EA 45" x 45" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	126.35	
Note: White symbol on blue background. Excludes striping.		
32 17 23 33-0085 EA 48" x 48" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	132.06	
32 17 26 Tactile Warning Surfaces <small>(32 17)</small>		
32 17 26 00-0001 Vitrified Polymer Composite (VPC); (Armor Tile) <small>(32 17 26)</small>		
Note: Truncated dome, raised strips or directional bars. All colors.		
32 17 26 00-0002 SF Surface Applied VPC Truncated Dome Detectable Warning Surface.....	58.92	8.11
Note: Includes surface preparation, adhesive, fasteners and sealant at perimeter. Also raised strips or directional bars. All colors.		
32 17 26 00-0003 SF Cast In Place VPC Truncated Dome Detectable Warning Surface.....	48.37	8.11
Note: Also raised strips or directional bars. All colors.		
32 17 26 00-0004 EA 30.5" x 24" x 2" Precast Concrete Truncated Dome Panel Set In Thinset.....	268.69	
32 17 26 00-0005 LF 24" Wide Temporary Truncated Dome Strips, Screw Down Only Into Asphalt Or Concrete.....	63.80	16.21
32 17 26 00-0006 Fiber-Reinforced, Polymermodified Cement And Coated With Acrylic Resin Emulsion (SatetyStep TD) <small>(32 17 26)</small>		
Note: Pre-molded tactile dome sheet. All colors.		
32 17 26 00-0007 SF Up To 15 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT).....	52.92	8.11
Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.		
32 17 26 00-0008 SF >15 To 36 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT).....	45.62	8.11
Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.		
32 18 Athletic And Recreational Surfacing <small>(32 10)</small>		
32 18 16 Synthetic Resilient Surfacing <small>(32 18)</small>		
32 18 16 13 Playground Protective Surfacing <small>(32 18 16)</small>		
32 18 16 13-0001 Tile Playground Surface Material <small>(32 18 16 13)</small>		
Note: Black. With or without channel bottom. Includes transition section and curbs. Excludes sub base.		
32 18 16 13-0002 SF 1-3/4" Thick, Resilient Rubber Tile.....	13.27	1.91
<i>For Manufacturer's Standard Colors, Add</i> 0.68		
<i>For Interlocking Tiles, Add</i> 1.51		
<i>For Mechanically Fastened, Add</i> 1.55		
<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i> 1.50		
32 18 16 13-0003 SF 2" Thick, Resilient Rubber Tile.....	13.63	2.04
<i>For Manufacturer's Standard Colors, Add</i> 0.68		
<i>For Interlocking Tiles, Add</i> 1.51		
<i>For Mechanically Fastened, Add</i> 1.62		
<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i> 1.50		
32 18 16 13-0004 SF 2-1/4" Thick, Resilient Rubber Tile.....	14.35	2.27
<i>For Manufacturer's Standard Colors, Add</i> 0.68		
<i>For Interlocking Tiles, Add</i> 1.51		
<i>For Mechanically Fastened, Add</i> 1.76		
<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i> 1.50		
32 18 16 13-0005 SF 2-1/2" Thick, Resilient Rubber Tile.....	15.07	2.51
<i>For Manufacturer's Standard Colors, Add</i> 0.68		
<i>For Interlocking Tiles, Add</i> 1.51		
<i>For Mechanically Fastened, Add</i> 1.91		
<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i> 1.50		
32 18 16 13-0006 SF 2-3/4" Thick, Resilient Rubber Tile.....	16.76	2.75
<i>For Manufacturer's Standard Colors, Add</i> 0.51		
<i>For Interlocking Tiles, Add</i> 1.70		
<i>For Mechanically Fastened, Add</i> 2.05		
<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i> 1.50		

32 Exterior Improvements**32 10 Bases, Ballasts, And Paving****32 18 Athletic And Recreational Surfacing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0007 SF 3" Thick, Resilient Rubber Tile.....	17.55	3.01
For Manufacturer's Standard Colors, Add	0.51	
For Interlocking Tiles, Add	1.70	
For Mechanically Fastened, Add	2.21	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0008 SF 3-1/4" Thick, Resilient Rubber Tile.....	18.38	3.29
For Manufacturer's Standard Colors, Add	0.51	
For Interlocking Tiles, Add	1.70	
For Mechanically Fastened, Add	2.38	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0009 SF 4" Thick, Resilient Rubber Tile.....	20.12	3.52
For Manufacturer's Standard Colors, Add	0.28	
For Interlocking Tiles, Add	1.90	
For Mechanically Fastened, Add	2.53	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0010 SF 3-3/4" Thick, Resilient Rubber Tile.....	20.84	3.81
For Manufacturer's Standard Colors, Add	0.28	
For Interlocking Tiles, Add	1.90	
For Mechanically Fastened, Add	2.67	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0011 SF 4" Thick, Resilient Rubber Tile.....	21.63	4.02
For Manufacturer's Standard Colors, Add	0.28	
For Interlocking Tiles, Add	1.90	
For Mechanically Fastened, Add	2.83	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0012 SF 4-1/2" Thick, Resilient Rubber Tile.....	24.76	4.53
For Manufacturer's Standard Colors, Add	0.28	
For Interlocking Tiles, Add	2.22	
For Mechanically Fastened, Add	3.13	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0013 Loose Laid Playground Surface Material <small>(32 18 16 13)</small>		
Note: Excludes sub base.		
32 18 16 13-0014 SF 3" Loose Laid Wood Fiber Safety Surface	1.18	0.29
32 18 16 13-0015 SF 6" Loose Laid Wood Fiber Safety Surface	1.53	0.36
32 18 16 13-0016 SF 9" Loose Laid Wood Fiber Safety Surface	1.91	0.43
32 18 16 13-0017 SF 12" Loose Laid Wood Fiber Safety Surface	2.72	0.65
32 18 16 13-0018 SF 3" Loose Laid Synthetic Fiber Safety Surface.....	2.44	0.29
32 18 16 13-0019 SF 6" Loose Laid Synthetic Fiber Safety Surface.....	3.02	0.36
32 18 16 13-0020 SF 9" Loose Laid Synthetic Fiber Safety Surface.....	4.76	0.43
32 18 16 13-0021 SF 12" Loose Laid Synthetic Fiber Safety Surface.....	5.87	0.65
32 18 16 13-0022 SF 8" FIBAR System	10.19	1.08
Note: Includes drainage system on 6" centers, felt, edge railing and 8" wood fiber.		
32 18 16 13-0023 SF 12" FIBAR System	12.90	1.44
Note: Includes drainage system on 6" centers, felt, edge railing and 12" wood fiber.		
32 18 16 13-0024 Poured In Place Playground Surfacing <small>(32 18 16 13)</small>		
Note: Includes SBR base mat, 100% color ethylene propylene diene monomer (EPDM) top surface and 5 year warranty. Includes primer for base mat and top surface. Includes all colors. Excludes base preparation.		
32 18 16 13-0025 SF Up To 4' Critical Fall Height (1-3/4") Poured In Place Rubber Playground Surfacing	11.67	2.16
For Up To 2,000, Add	2.77	
For >2,000 To 3,000, Add	1.94	
For >3,000 To 4,000, Add	1.31	
For >4,000 To 5,000, Add	0.84	
For >5,000 To 7,000, Add	0.34	
For Aliphatic (Non Yellowing) Binder, Add	2.36	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.31	
32 18 16 13-0026 SF 5' Critical Fall Height (2") Poured In Place Rubber Playground Surfacing	12.03	2.40
For Up To 2,000, Add	2.85	
For >2,000 To 3,000, Add	2.00	
For >3,000 To 4,000, Add	1.35	
For >4,000 To 5,000, Add	0.86	
For >5,000 To 7,000, Add	0.35	
For Aliphatic (Non Yellowing) Binder, Add	2.36	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.31	
32 18 16 13-0027 SF 6' Critical Fall Height (2-1/2") Poured In Place Rubber Playground Surfacing	13.00	2.74
For Up To 2,000, Add	3.08	
For >2,000 To 3,000, Add	2.16	
For >3,000 To 4,000, Add	1.46	
For >4,000 To 5,000, Add	0.93	
For >5,000 To 7,000, Add	0.38	
For Aliphatic (Non Yellowing) Binder, Add	2.36	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.31	
32 18 16 13-0028 SF 7' Critical Fall Height (3") Poured In Place Rubber Playground Surfacing	14.04	2.92
For Up To 2,000, Add	3.33	
For >2,000 To 3,000, Add	2.33	
For >3,000 To 4,000, Add	1.58	
For >4,000 To 5,000, Add	1.01	
For >5,000 To 7,000, Add	0.41	
For Aliphatic (Non Yellowing) Binder, Add	2.36	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0029 SF 8' Critical Fall Height (3-1/2") Poured In Place Rubber Playground Surfacing.....	15.07	3.06
<i>For Up To 2,000, Add</i>	3.58	
<i>For >2,000 To 3,000, Add</i>	2.50	
<i>For >3,000 To 4,000, Add</i>	1.70	
<i>For >4,000 To 5,000, Add</i>	1.08	
<i>For >5,000 To 7,000, Add</i>	0.44	
<i>For Aliphatic (Non Yellowing) Binder, Add</i>	2.36	
<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.31	
32 18 16 13-0030 SF 9' Critical Fall Height (4") Poured In Place Rubber Playground Surfacing.....	15.95	3.24
<i>For Up To 2,000, Add</i>	3.79	
<i>For >2,000 To 3,000, Add</i>	2.65	
<i>For >3,000 To 4,000, Add</i>	1.79	
<i>For >4,000 To 5,000, Add</i>	1.14	
<i>For >5,000 To 7,000, Add</i>	0.47	
<i>For Aliphatic (Non Yellowing) Binder, Add</i>	2.36	
<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.31	
32 18 16 13-0031 SF 10' Critical Fall Height (4-1/2") Poured In Place Rubber Playground Surfacing.....	17.00	3.42
<i>For Up To 2,000, Add</i>	4.03	
<i>For >2,000 To 3,000, Add</i>	2.82	
<i>For >3,000 To 4,000, Add</i>	1.91	
<i>For >4,000 To 5,000, Add</i>	1.22	
<i>For >5,000 To 7,000, Add</i>	0.50	
<i>For Aliphatic (Non Yellowing) Binder, Add</i>	2.36	
<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.31	
32 18 16 13-0032 SF 12' Critical Fall Height (5-1/2") Poured In Place Rubber Playground Surfacing.....	19.06	3.83
<i>For Up To 2,000, Add</i>	4.52	
<i>For >2,000 To 3,000, Add</i>	3.17	
<i>For >3,000 To 4,000, Add</i>	2.14	
<i>For >4,000 To 5,000, Add</i>	1.37	
<i>For >5,000 To 7,000, Add</i>	0.56	
<i>For Aliphatic (Non Yellowing) Binder, Add</i>	2.36	
<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.31	
32 18 16 13-0033 SF Top Only (1/2") Poured In Place Playground Surfacing.....	7.63	
<i>Note: Not used with new surfacing system tasks.</i>		
<i>For Up To 2,000, Add</i>	2.78	
<i>For >2,000 To 3,000, Add</i>	1.78	
<i>For >3,000 To 4,000, Add</i>	1.08	
<i>For >4,000 To 5,000, Add</i>	0.65	
<i>For >5,000 To 7,000, Add</i>	0.29	
<i>For Aliphatic (Non Yellowing) Binder, Add</i>	2.36	
<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.31	
32 18 16 13-0034 EA Simple Graphics Including Hopscotch, Four Square Or Geometric Shapes (5 Per 1,000 SF) For Poured In Place Playground Surfacing.....	2,126.67	
32 18 16 13-0035 Synthetic Playground Turf (Sporturf) <small>(32 18 16 13)</small>		
<i>Note: Excludes base preparation, aggregate, or drainage.</i>		
32 18 16 13-0036 SF 60 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Sporturf PL929).....	6.35	
32 18 16 13-0037 SF 71 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Mirage PL906).....	5.65	
32 18 16 13-0038 SF 2" Foam Padding (Sporturf).....	3.71	
32 18 16 13-0039 CF Sand/Ruber Infill (Sporturf).....	40.92	
32 18 23 Athletic Surfacing <small>(32 18)</small>		
32 18 23 13 Baseball Field Surfacing <small>(32 18 23)</small>		
32 18 23 13-0001 Clay Infield Maintenance <small>(32 18 23 13)</small>		
32 18 23 13-0002 MSF Playing Field Maintenance (Clay - Nail Drag).....	9.30	
32 18 23 13-0003 MSF Playing Field Maintenance (Clay - Screen Drag).....	9.30	
32 18 23 13-0004 CY Playing Field Maintenance Of Clay.....	73.09	
32 18 23 13-0005 Ton Medium Pro Baseball Infield Mix (Diamond Select 60/40 Pro Infield Mix).....	111.24	
32 18 23 23 Field Sport Surfacing <small>(32 18 23)</small>		
32 18 23 23-0001 Turf Field Maintenance <small>(32 18 23 23)</small>		
32 18 23 23-0002 ACR Turf Aeration (Minimum 6" Penetration).....	125.12	
32 18 23 23-0003 MSF Top Dressing 1/8" - 1/4" Sand.....	11.77	
32 18 23 23-0004 BAG Envirofill, 50 LB Bag.....	86.83	
32 18 23 29 Synthetic Field Sport Surfacing <small>(32 18 23)</small>		
32 18 23 29-0001 Synthetic Turf <small>(32 18 23 29)</small>		
32 18 23 29-0002 Synthetic Turf (AstroTurf) <small>(32 18 23 29-0001)</small>		
<i>Note: Includes labor, equipment and material required to install the task.</i>		
32 18 23 29-0003 Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT) <small>(32 18 23 29-0002)</small>		
32 18 23 29-0004 38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 38) <small>(32 18 23 29-0003)</small>		

32 Exterior Improvements**32 10 Bases, Ballasts, And Paving****32 18 Athletic And Recreational Surfacing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0005	SF		38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 38)	4.28	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.26	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
32 18 23 29-0006	EA		Football Markings For AstroTurf® GameDay Grass™ MT 38 Fields	15,125.35	
32 18 23 29-0007	EA		Baseball Markings For AstroTurf® GameDay Grass™ MT 38 Fields	12,328.59	
32 18 23 29-0008	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 38 Fields	3,709.99	
			Note: Per sport.		
32 18 23 29-0009	EA		Endzone Lettering For AstroTurf® GameDay Grass™ MT 38 Fields	1,369.84	
			Note: Per letter. Excludes outline.		
32 18 23 29-0010	EA		Colored Endzone For AstroTurf® GameDay Grass™ MT 38 Fields	1,312.77	
			Note: Per endzone.		
32 18 23 29-0011	EA		Simple Logo For AstroTurf® GameDay Grass™ MT 38 Fields	11,415.36	
			Note: Block letter.		
32 18 23 29-0012	EA		Deluxe Logo For AstroTurf® GameDay Grass™ MT 38 Fields	16,552.27	
			Note: Graphic.		
32 18 23 29-0013			41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 41) <small>(32 18 23 29-0003)</small>		
32 18 23 29-0014	SF		41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 41)	4.87	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.26	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
32 18 23 29-0015	EA		Football Markings For AstroTurf® GameDay Grass™ MT 41 Fields	15,410.83	
32 18 23 29-0016	EA		Baseball Markings For AstroTurf® GameDay Grass™ MT 41 Fields	12,785.28	
32 18 23 29-0017	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 41 Fields	3,995.40	
			Note: Per sport.		
32 18 23 29-0018	EA		Endzone Lettering For AstroTurf® GameDay Grass™ MT 41 Fields	1,484.01	
			Note: Per letter. Excludes outline.		
32 18 23 29-0019	EA		Colored Endzone For AstroTurf® GameDay Grass™ MT 41 Fields	1,369.85	
			Note: Per endzone.		
32 18 23 29-0020	EA		Simple Logo For AstroTurf® GameDay Grass™ MT 41 Fields	11,986.20	
			Note: Block letter.		
32 18 23 29-0021	EA		Deluxe Logo For AstroTurf® GameDay Grass™ MT 41 Fields	17,379.99	
			Note: Graphic.		
32 18 23 29-0022			45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 45) <small>(32 18 23 29-0003)</small>		
32 18 23 29-0023	SF		45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 45)	5.00	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.26	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
32 18 23 29-0024	EA		Football Markings For AstroTurf® GameDay Grass™ MT 45 Fields	15,696.21	
32 18 23 29-0025	EA		Baseball Markings For AstroTurf® GameDay Grass™ MT 45 Fields	13,812.67	
32 18 23 29-0026	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 45 Fields	4,280.79	
			Note: Per sport.		
32 18 23 29-0027	EA		Endzone Lettering For AstroTurf® GameDay Grass™ MT 45 Fields	1,598.16	
			Note: Per letter. Excludes outline.		
32 18 23 29-0028	EA		Colored Endzone For AstroTurf® GameDay Grass™ MT 45 Fields	1,426.93	
			Note: Per endzone.		
32 18 23 29-0029	EA		Simple Logo For AstroTurf® GameDay Grass™ MT 45 Fields	12,556.97	
			Note: Block letter.		
32 18 23 29-0030	EA		Deluxe Logo For AstroTurf® GameDay Grass™ MT 45 Fields	18,207.61	
			Note: Graphic.		
32 18 23 29-0031			Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D) <small>(32 18 23 29-0002)</small>		
32 18 23 29-0032			52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 52) <small>(32 18 23 29-0031)</small>		
32 18 23 29-0033	SF		52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 52)	5.81	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.20	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0034	EA		Football Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	16,266.89	
32 18 23 29-0035	EA		Baseball Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	17,351.35	
32 18 23 29-0036	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	4,851.53	
			Note: Per sport.		
32 18 23 29-0037	EA		Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 52 Fields	1,826.46	
			Note: Per letter. Excludes outline.		
32 18 23 29-0038	EA		Colored Endzone For AstroTurf® GameDay Grass™ 3DX 52 Fields	1,541.07	
			Note: Per endzone.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0039 EA Simple Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields Note: Block letter.	13,698.43	
32 18 23 29-0040 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields Note: Graphic.	19,862.73	
32 18 23 29-0041 60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 60) (32 18 23 29-0031)		
32 18 23 29-0042 SF 60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 60)	6.07	
<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
<i>For Cryo Rubber Infill, Add</i>	0.20	
<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0043 EA Football Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	16,552.27	
32 18 23 29-0044 EA Baseball Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	19,291.96	
32 18 23 29-0045 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields..... Note: Per sport.	5,136.91	
32 18 23 29-0046 EA Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 60 Fields	1,940.61	
Note: Per letter. Excludes outline.		
32 18 23 29-0047 EA Colored Endzone For AstroTurf® GameDay Grass™ 3DX 60 Fields.....	1,598.15	
Note: Per endzone.		
32 18 23 29-0048 EA Simple Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields	14,269.20	
Note: Block letter.		
32 18 23 29-0049 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields	20,690.34	
Note: Graphic.		
32 18 23 29-0050 52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 52) (32 18 23 29-0031)		
32 18 23 29-0051 SF 52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 52)	6.08	
<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
<i>For Cryo Rubber Infill, Add</i>	0.20	
<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0052 EA Football Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	16,837.66	
32 18 23 29-0053 EA Baseball Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	19,406.11	
32 18 23 29-0054 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 52 Fields..... Note: Per sport.	5,422.30	
32 18 23 29-0055 EA Endzone Lettering For AstroTurf® GameDay Grass™ 3D 52 Fields.....	2,054.76	
Note: Per letter. Excludes outline.		
32 18 23 29-0056 EA Colored Endzone For AstroTurf® GameDay Grass™ 3D 52 Fields.....	1,655.23	
Note: Per endzone.		
32 18 23 29-0057 EA Simple Logo For AstroTurf® GameDay Grass™ 3D 52 Fields.....	14,839.97	
Note: Block letter.		
32 18 23 29-0058 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3D 52 Fields.....	21,517.95	
Note: Graphic.		
32 18 23 29-0059 60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 60) (32 18 23 29-0031)		
32 18 23 29-0060 SF 60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 60)	6.23	
<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
<i>For Cryo Rubber Infill, Add</i>	0.20	
<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0061 EA Football Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	17,123.04	
32 18 23 29-0062 EA Baseball Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	20,661.80	
32 18 23 29-0063 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 60 Fields..... Note: Per sport.	5,707.68	
32 18 23 29-0064 EA Endzone Lettering For AstroTurf® GameDay Grass™ 3D 60 Fields.....	2,283.07	
Note: Per letter. Excludes outline.		
32 18 23 29-0065 EA Colored Endzone For AstroTurf® GameDay Grass™ 3D 60 Fields.....	1,712.30	
Note: Per endzone.		
32 18 23 29-0066 EA Simple Logo For AstroTurf® GameDay Grass™ 3D 60 Fields.....	15,410.74	
Note: Block letter.		
32 18 23 29-0067 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3D 60 Fields.....	22,345.57	
Note: Graphic.		
32 18 23 29-0068 Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ XPe) (32 18 23 29-0002)		
32 18 23 29-0069 38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 38) (32 18 23 29-0068)		

32 Exterior Improvements**32 10 Bases, Ballasts, And Paving****32 18 Athletic And Recreational Surfacing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0070 SF 38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 38).....	4.61	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0071 EA Football Markings For AstroTurf® GameDay Grass™ XPe 38 Fields	14,554.67	
32 18 23 29-0072 EA Baseball Markings For AstroTurf® GameDay Grass™ XPe 38 Fields	10,730.50	
32 18 23 29-0073 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 38 Fields	3,139.24	
Note: Per sport.		
32 18 23 29-0074 EA Endzone Lettering For AstroTurf® GameDay Grass™ XPe 38 Fields.....	1,141.54	
Note: Per letter. Excludes outline.		
32 18 23 29-0075 EA Colored Endzone For AstroTurf® GameDay Grass™ XPe 38 Fields	1,198.62	
Note: Per endzone.		
32 18 23 29-0076 EA Simple Logo For AstroTurf® GameDay Grass™ XPe 38 Fields.....	10,273.89	
Note: Block letter.		
32 18 23 29-0077 EA Deluxe Logo For AstroTurf® GameDay Grass™ XPe 38 Fields.....	14,897.13	
Note: Graphic.		
32 18 23 29-0078 42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 42) (32 18 23 29-0068)		
32 18 23 29-0079 SF 42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 42).....	4.09	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0080 EA Football Markings For AstroTurf® GameDay Grass™ XPe 42 Fields	14,839.97	
32 18 23 29-0081 EA Baseball Markings For AstroTurf® GameDay Grass™ XPe 42 Fields	11,415.36	
32 18 23 29-0082 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 42 Fields	3,424.61	
Note: Per sport.		
32 18 23 29-0083 EA Endzone Lettering For AstroTurf® GameDay Grass™ XPe 42 Fields.....	1,255.69	
Note: Per letter. Excludes outline.		
32 18 23 29-0084 EA Colored Endzone For AstroTurf® GameDay Grass™ XPe 42 Fields	1,255.69	
Note: Per endzone.		
32 18 23 29-0085 EA Simple Logo For AstroTurf® GameDay Grass™ XPe 42 Fields.....	10,844.59	
Note: Block letter.		
32 18 23 29-0086 EA Deluxe Logo For AstroTurf® GameDay Grass™ XPe 42 Fields.....	15,724.66	
Note: Graphic.		
32 18 23 29-0087 Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®) (32 18 23 29-0002)		
32 18 23 29-0088 SF Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®).....	9.60	
32 18 23 29-0089 SF Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® PureGrass®).....	8.44	
32 18 23 29-0090 EA Football Markings For AstroTurf® PureGrass® Fields.....	28,163.68	
32 18 23 29-0091 EA Baseball Markings For AstroTurf® PureGrass® Fields.....	33,459.41	
32 18 23 29-0092 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® PureGrass® Fields	8,184.32	
Note: Per sport.		
32 18 23 29-0093 EA Endzone Lettering For AstroTurf® PureGrass® Fields.....	3,129.30	
Note: Per letter. Excludes outline.		
32 18 23 29-0094 EA Colored Endzone For AstroTurf® PureGrass® Fields	2,322.78	
Note: Per endzone.		
32 18 23 29-0095 EA Simple Logo For AstroTurf® PureGrass® Fields.....	20,905.00	
Note: Block letter.		
32 18 23 29-0096 EA Deluxe Logo For AstroTurf® PureGrass® Fields.....	30,691.19	
Note: Graphic.		
32 18 23 29-0097 Synthetic Turf (G9 Turf) (32 18 23 29-0001)		
Note: Includes labor, equipment and material required to install the task.		
32 18 23 29-0098 SF 2-1/2" Height, 53 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Playmaker Turf)	6.04	
Note: For football and multi-sport fields. Excludes preparation of sub-base, grooming, sports lines and logos.		
For >35,000, Deduct	-0.56	
32 18 23 29-0099 SF 2" Height, 48 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Striker Turf).....	5.99	
Note: For all sports other than football. Excludes preparation of sub-base, grooming, sports lines and logos.		
For >35,000, Deduct	-0.55	
32 18 23 29-0100 SF 1-3/4" Height, 72 Ounce, Tufted 3/8" Gauge, Two-Color Monofilament Synthetic Turf With Thatch Layer And Acrylic Coated Sand Infill (G9 Turf Perennial Turf).....	6.23	
Note: For landscaped areas or playgrounds. Excludes preparation of sub-base, grooming, sports lines and logos.		
32 18 23 29-0101 EA Football Inlays For G9 Synthetic Turf.....	38,933.73	
Note: Includes field grid, numbers, arrows, coach's box and kick off lines.		
32 18 23 29-0102 EA Soccer Inlays For G9 Synthetic Turf	16,871.28	
32 18 23 29-0103 EA Boys Lacrosse Inlays For G9 Synthetic Turf	16,871.28	
32 18 23 29-0104 EA Girls Lacrosse Inlays For G9 Synthetic Turf	16,871.28	
32 18 23 29-0105 EA Field Hockey Inlays For G9 Synthetic Turf.....	16,871.28	
32 18 23 29-0106 EA Endzone Lettering For G9 Synthetic Turf.....	1,946.69	
Note: Priced per letter. Includes single color outlining.		
32 18 23 29-0107 SF Ethylene Propylene Diene Monomer (EPDM) Black Infill For G9 Synthetic Turf	1.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0108 SF Ethylene Propylene Diene Monomer (EPDM) Color Infill For G9 Synthetic Turf.....	4.76	
32 18 23 29-0109 SF Styrene-Butadiene Rubber (SBR) Infill For G9 Synthetic Turf	1.36	
32 18 23 29-0110 SF Sand Infill For G9 Synthetic Turf.....	0.69	
32 18 23 29-0111 SF Acrylic Coated Sand Infill For G9 Synthetic Turf.....	1.13	
32 18 23 29-0112 EA Gmax Compaction And Hardness Test For G9 Synthetic Turf	1,297.79	
Note: Includes a comprehensive report.		
32 18 23 29-0113 EA Safety Bridge Over Track For G9 Synthetic Turf	12,977.91	
32 18 23 29-0114 SF Clean And Groom Synthetic Turf.....	0.43	
Note: Includes using equipment to pick up metal particles in the field, air vacuum the top 2-5 mm of infill, clean and screen to remove broken strands, dirt, bandage, etc.		
		-0.17
For >10,000 To 30,000, Deduct		
		-0.30
For >30,000 To 60,000, Deduct		
		-0.33
For >60,000, Deduct		
32 18 23 29-0115 SF Rejuvenate Synthetic Turf And Reinstall Existing Infill.....	2.91	
Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes reinstalling the old infill that was removed.		
32 18 23 29-0116 SF Rejuvenate Synthetic Turf For Installation Of New Infill.....	3.23	
Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes disposing of the old infill. Excludes new infill.		
32 18 23 29-0117 SF Drainage Layer For G9 Synthetic Turf.....	2.65	
Note: Used for drainage over asphalt or on roof tops.		
32 18 23 29-0118 SF 15 mm, Shock Pad For G9 Synthetic Turf	1.63	
Note: Used for additional Gmax for a stone base field.		
32 18 23 29-0119 EA Single Visit Repair Call To Repair Up To 300 LF Of Inlay Lines Or Seams On G9 Synthetic Turf	2,586.40	
Note: Includes field inspection and report.		
32 18 23 29-0120 LF Repair Inlay Lines Or Seams On G9 Synthetic Turf	7.11	
Note: Linear foot price for repairs over the initial repair call maximum of 300 LF.		
32 18 23 29-0121 LF Nailers Used To Attach G9 Synthetic Turf.....	2.84	
32 18 23 29-0122 SF Removal And Recycling Of Existing Field.....	2.00	
Note: Includes removal, shipping and recycling of infill, fibers and backing.		

32 18 23 33 Running Track Surfacing (32 18 23)

32 18 23 33-0001 Running Track Surfacing (32 18 23 33)		
32 18 23 33-0002 SY 2-1/2" Asphaltic Concrete Running Track Surfacing.....	28.76	

32 18 23 33-0003 Running Track Seal And Colored Surfaces (32 18 23 33)

32 18 23 33-0004 SY 1 Seal Coat, Striping Of Track	16.47	
Note: Includes certification.		

32 18 23 39 Synthetic Running Track Surfacing (32 18 23)

32 18 23 39-0001 Synthetic Running Track Surfacing (XPLODE™) (32 18 23 39)

Note: Excludes asphalt base. Includes striping.		
32 18 23 39-0002 SY Paved-In-Place Styrene-Butadiene Rubber (SBR) Or Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Synthetic Running Track Surfacing (XPLODE™ M100).....	40.70	5.46
For >5,500, Deduct		-4.48
For Up To 4,000, Add		14.25
32 18 23 39-0003 SY Paved-In-Place Styrene-Butadiene Rubber (SBR) Granule Base Mat With Polyurethane Binder Finished With A Textured And Pigmented Polyurethane And Ethylene Propylene Diene Monomer (EPDM) Rubber Structural Spray Coat, Synthetic Running Track Surfacing (XPLODE™ MS200).....	54.62	5.46
For >5,500, Deduct		-6.01
For Up To 4,000, Add		19.12
For Custom Color Upgrade, Add		5.19
For Aliphatic Top Coating, Add		9.83
32 18 23 39-0004 SY Paved-In-Place Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Two-Component Polyurethane Sealer Layer And Two-Component Polyurethane Wearing Layer With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber, Synthetic Running Track Surfacing (XPLODE™ MSX500)	91.79	5.46
For >5,500, Deduct		-5.51
For Up To 4,000, Add		32.13
For Custom Color Upgrade, Add		7.07
For Aliphatic Top Coating, Add		13.13
32 18 23 39-0005 SY Full Pour Two-Component Polyurethane Track System With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber Surface, Synthetic Running Track Surfacing (XPLODE™ MSX5000).....	118.57	5.46
For >5,500, Deduct		-7.11
For Up To 4,000, Add		41.50
For Custom Color Upgrade, Add		9.25
For Aliphatic Top Coating, Add		13.52
32 18 23 39-0006 SY Latex Binder, Synthetic Running Track Surfacing (XPLODE™ Plexitrac® Lightning)	37.08	
For >5,500, Deduct		-4.08
For Up To 4,000, Add		12.98
32 18 23 39-0007 SY Latex Binder, Synthetic Running Track Surfacing (XPLODE™ Plexitrac® Accelerator).....	41.73	
For >5,500, Deduct		-6.05
For Up To 4,000, Add		14.61
32 18 23 39-0008 SY Spray Retop XPLODE™ M100/MS200 Running Tracks	36.65	
For Up To 4,000, Add		12.83
For >5,500, Deduct		-3.58

32	Exterior Improvements
32 10	Bases, Ballasts, And Paving
32 18	Athletic And Recreational Surfacing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 39-0009 SY Sandwich Retop XPLODE™ MSX500 Running Tracks.....	70.95	
For Up To 4,000, Add	24.83	
For >5,500, Deduct	-7.48	
32 18 23 39-0010 SY Retop XPLODE™ Plexitrac® Lightning Running Tracks	20.63	
Note: Two layers.		
For Up To 4,000, Add	7.22	
For >5,500, Deduct	-3.41	
32 18 23 39-0011 SY Retop XPLODE™ Plexitrac® Accelerator Running Tracks.....	25.13	
Note: Two layers.		
For Up To 4,000, Add	8.80	
For >5,500, Deduct	-3.41	
32 18 23 39-0012 EA Restripe XPLODE™ Running Track.....	8,530.50	
Note: Includes two coats of acrylic resurfacer and two coats of color.		
For College Track Restriping, Add	1,551.00	
32 18 23 53 Tennis Court Surfacing (32 18 23)		
32 18 23 53-0001 Tennis Court Surfacing (32 18 23 53)		
See CSI section 32 18 23 61-0000 for 100% acrylic tennis court surfacing.		
32 18 23 53-0002 SY Tennis Court Bituminous Pavement, 2-1/2" Thick.....	31.72	
32 18 23 53-0003 Tennis Court Markings (32 18 23 53)		
32 18 23 53-0004 EA Paint Markings On Asphalt Tennis Court 2 Coats.....	436.23	
32 18 23 56 Natural Tennis Court Surfacing (32 18 23)		
32 18 23 56-0001 SY Clay Tennis Court.....	45.05	
32 18 23 56-0002 SY Tennis Court, Pulverized Natural Greenstone, Fast Dry	50.17	
Note: Includes 4" base.		
32 18 23 56-0003 SY Tennis Court, Rubber-Cork Base Resilient Pavement.....	17.72	
32 18 23 56-0004 SY Resurface Clay Tennis Court.....	12.86	
32 18 23 56-0005 SY Resurface Tennis Court, Pulverized Natural Greenstone	10.84	
32 18 23 56-0006 SY Resurface Tennis Court, Resilient Pavement	6.79	
32 18 23 61 Multi-Use, Tennis Court, Basketball Court Athletic Surfacing (32 18 23)		
32 18 23 61-0001 100% Acrylic Athletic Surfacing System (Plexipave®) (32 18 23 61)		
Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0002 Surface Preparation For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)		
32 18 23 61-0003 SY 100% Acrylic Resurfacer, Athletic Surfacing System (California Products Plexipave® Acrylic Resurfacer), Per Coat.....	1.23	
Note: Includes ultra fine silica sand. Applied with rubber squeegee.		
32 18 23 61-0004 SY Acid Etching Concrete Pre-Treatment For Plexipave® Athletic Surfacing System (California Products Plexipave® Concrete Preparer®), Per Coat	0.67	
Note: For previously uncoated portland cement concrete. Applied with broom.		
32 18 23 61-0005 SY Two-Part, Water Based Epoxy Primer For Plexipave® Athletic Surfacing System (California Products Plexipave® Ti-Coat®), Per Coat.....	1.74	
Note: For new or uncoated portland cement concrete. Applied with a short nap phenolic roller.		
32 18 23 61-0006 SY Up To 1/2" Thick, Acrylic Latex Patching Compound, Athletic Surfacing System (California Products Plexipave® Court Patch Binder), Per Coat.....	70.40	
Note: For patching depressions and uneven texture in new or existing asphalt or concrete surfaces. Includes ultra fine silica sand and portland cement. Applied with trowel or metal screed.		
32 18 23 61-0007 Surface Coatings For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)		
Note: Standard colors include dark green, Florida green, light green, maroon, Sahara sand, brown, California red, and cape gray.		
32 18 23 61-0008 SY 100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), First Coat.....	2.51	
Note: Includes ultra fine silica sand. Applied with rubber squeegee.		
For Pacific Blue, Add	0.14	
For US Open Blue, Add	0.48	
32 18 23 61-0009 SY 100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Second Coat.....	2.04	
Note: Includes ultra fine silica sand. Applied with rubber squeegee.		
For Pacific Blue, Add	0.10	
For US Open Blue, Add	0.34	
32 18 23 61-0010 SY 100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Third Coat.....	1.78	
Note: Price per coat for third or additional coats. Includes ultra fine silica sand. Applied with rubber squeegee.		
For Pacific Blue, Add	0.08	
For US Open Blue, Add	0.27	
32 18 23 61-0011 SY Non-Textured, 100% Acrylic Emulsion Color Coating Finish, Athletic Surfacing System (California Products Plexipave® Plexichrome®), Per Coat.....	1.88	
Note: Non-textured finish coat over Plexipave® for faster playing surfaces. Applied with rubber squeegee followed by wide hair-type push broom.		
For Pacific Blue, Add	0.04	
For US Open Or Australian Open Blue, Add	0.31	
For Pro Purple, Add	0.81	



Exterior Improvements	32
Bases, Ballasts, And Paving	32 10
Athletic And Recreational Surfacing	32 18

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 61-0012 Line Striping For Athletic Surfacing System (Plexipave®) <small>(32 18 23 61-0001)</small>		
32 18 23 61-0013 SY Tennis Or Basketball Court Line Striping For Athletic Surfacing System, Per SY Of Court (California Products Plexipave® Hi-Hide Plexicolor®).....	1.19	
Note: Textured or non-textured highly reflective line marking paint.		
32 18 23 61-0014 Cushion Coatings For Athletic Surfacing System (Plexipave® Plexicushion®) <small>(32 18 23 61-0001)</small>		
32 18 23 61-0015 SY Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), First Coat.....	4.11	
Note: Applied with rubber squeegee.		
32 18 23 61-0016 SY Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Second Coat.....	5.61	
Note: Applied with rubber squeegee.		
32 18 23 61-0017 SY Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Third Coat.....	4.82	
Note: Price per coat for third or additional coats. Applied with rubber squeegee.		
32 18 23 61-0018 SY Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), First Coat.....	3.61	
Note: Applied with rubber squeegee.		
32 18 23 61-0019 SY Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), Second Coat.....	2.75	
Note: Price per coat for second or additional coats. Applied with rubber squeegee.		
32 18 23 61-0020 Resurface Athletic Court <small>(32 18 23 61)</small>		
Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0021 SY Court Resurfacing System, 2 Coats Resurfacer, 2 Coats Color, And Sand (SealMaster).....	1.81	
32 30 Site Improvements <small>(32)</small>		
32 31 Fences And Gates <small>(32 30)</small>		
32 31 11 Gate Operators <small>(32 31)</small>		
32 31 11 00-0001 Gate Operators <small>(32 31 11)</small>		
Note: Excludes gates, electrical connections, access controls and concrete foundation.		
32 31 11 00-0002 Swing Gate Actuator <small>(32 31 11 00-0001)</small>		
32 31 11 00-0003 Single Gate, Swing Gate Actuator <small>(32 31 11 00-0002)</small>		
32 31 11 00-0004 EA Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6003).....	1,291.40	175.32
Note: Includes one primary operator with a 10' wide gate capacity.		
32 31 11 00-0005 EA Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6002).....	1,699.05	175.32
Note: Includes one primary operator with a 14' wide gate capacity.		
32 31 11 00-0006 Dual Gate, Swing Gate Actuator <small>(32 31 11 00-0002)</small>		
32 31 11 00-0007 EA Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6003).....	2,582.79	350.65
Note: Includes one primary and one secondary operator each with a 10' wide gate capacity.		
32 31 11 00-0008 EA Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6002).....	3,398.10	350.65
Note: Includes one primary and one secondary operator each with a 14' wide gate capacity.		
32 31 11 00-0009 Swing Gate Operators <small>(32 31 11 00-0001)</small>		
32 31 11 00-0010 Single Gate, Swing Gate Operators <small>(32 31 11 00-0009)</small>		
32 31 11 00-0011 EA 400 LB Capacity, Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6050).....	2,566.63	175.32
Note: Includes one primary operator with a 10' wide and 400 LB gate capacity.		
32 31 11 00-0012 EA 500 LB Capacity, Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6100).....	2,786.14	175.32
Note: Includes one primary operator with a 14' wide and 500 LB gate capacity.		
32 31 11 00-0013 EA 700 LB Capacity, Up To 18' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	3,758.25	175.32
Note: Includes one primary operator with an 18' wide and 700 LB gate capacity.		
32 31 11 00-0014 EA 800 LB Capacity, Up To 22' Wide Gate, 1 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	4,249.53	175.32
Note: Includes one primary operator with a 22' wide and 800 LB gate capacity.		
For 208/230/460 Volt AC, Add		322.50
32 31 11 00-0015 Dual Gate, Swing Gate Operators <small>(32 31 11 00-0009)</small>		
32 31 11 00-0016 EA 400 LB Capacity, Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6050).....	4,558.35	350.65
Note: Includes one primary and one secondary operator each with a 10' wide and 400 LB gate capacity.		
32 31 11 00-0017 EA 500 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6100).....	4,997.37	350.65
Note: Includes one primary and one secondary operator each with a 14' wide and 500 LB gate capacity.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-0018	EA		700 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	6,931.13	350.65
			Note: Includes one primary and one secondary operator each with an 18' wide and 700 LB gate capacity.		
			For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0019	EA		800 LB Capacity, Up To 22' Wide Gates, 1 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	8,007.76	350.65
			Note: Includes one primary and one secondary operator each with a 22' wide and 800 LB gate capacity.		
			For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0020			Sliding Gate Operators (32 31 11 00-0001)		
			Note: Includes 20' of chain. See CSI section 32 31 11 00-0029 for additional chain over 20'.		
32 31 11 00-0021	EA		300 LB Capacity, Up To 16' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9050).....	2,075.35	175.32
			Note: Includes operator, chain brackets, hardware and 20' of #41 chain.		
32 31 11 00-0022	EA		1,000 LB Capacity, Up To 30' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9100).....	2,929.44	210.38
			Note: Includes operator, chain brackets, hardware and 20' of #41 chain.		
32 31 11 00-0023	EA		1,500 LB Capacity, Up To 45' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9150).....	3,661.13	210.38
			Note: Includes operator, chain brackets, hardware and 20' of #40 chain.		
32 31 11 00-0024	EA		3,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9210).....	4,802.66	245.45
			Note: Includes operator, chain brackets, hardware and 20' of #50 chain.		
32 31 11 00-0025	EA		2,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9220).....	5,931.56	245.45
			Note: Includes operator, chain brackets, hardware and 20' of #50 chain.		
32 31 11 00-0026	EA		5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9230).....	8,134.05	280.52
			Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0027	EA		5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9530).....	13,731.49	280.52
			Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0028	EA		10,000 LB Capacity, Up To 160' Wide Gate, 5 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9550).....	23,397.25	315.58
			Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0029			Accessories For Gate Actuators And Operators (32 31 11 00-0001)		
32 31 11 00-0030	EA		Single Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9410).....	453.98	
32 31 11 00-0031	EA		Two Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9409).....	886.01	
32 31 11 00-0032	EA		Heater Kit For Gate Actuators And Operators (DKS™ DoorKing® 1601).....	558.37	
32 31 11 00-0033	EA		Photoelectric Eye For Gate Actuators And Operators (DKS™ DoorKing® 8080-031).....	618.04	
32 31 11 00-0034	EA		Reversing Edge Sensor For Gate Actuators And Operators (DKS™ DoorKing® 8080-020).....	555.32	
32 31 11 00-0035	EA		Post Mount Base Plate For Gate Actuators And Operators (DKS™ DoorKing® 9310).....	403.76	
32 31 11 00-0036	LF		#40 Chain For Sliding Gate Operators.....	7.49	
32 31 11 00-0037	LF		#41 Chain For Sliding Gate Operators.....	5.93	
32 31 11 00-0038	LF		#50 Chain For Sliding Gate Operators.....	8.36	
32 31 11 00-0039	LF		#60 Chain For Sliding Gate Operators.....	7.93	
32 31 11 00-0040	EA		Exterior Keypad Gate Operator (Linear AK-11).....	475.22	120.80
32 31 13 Chain Link Fences And Gates (32 31)					
32 31 13 13 Chain Link Fences And Gates (32 31 13)					
32 31 13 13-0001 Post Holes (32 31 13 13)			Note: Excludes spreading of excess material on site or loading and removal of excavated material from site. See CSI section 02 41 19 13-0080 for core drilling in concrete, 02 41 19 13-0218 for core drilling in asphalt.		
32 31 13 13-0002 Auger By Machine Fence Post Hole In Soil (32 31 13 13-0001)					
32 31 13 13-0003	VLF		Up To 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	7.63	
32 31 13 13-0004	VLF		2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	8.58	
32 31 13 13-0005	VLF		3" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	10.18	
32 31 13 13-0006	VLF		4" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	11.45	
32 31 13 13-0007	VLF		6" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	12.48	
32 31 13 13-0008	VLF		8" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	13.73	
32 31 13 13-0009	VLF		10" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	15.25	
32 31 13 13-0010	VLF		12" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	17.16	
32 31 13 13-0011	VLF		18" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	19.62	
32 31 13 13-0012	VLF		24" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	22.88	
32 31 13 13-0013	VLF		30" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	27.46	
32 31 13 13-0014	VLF		36" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	34.33	
32 31 13 13-0015 Post Hole In Rock (32 31 13 13-0001)					
32 31 13 13-0016	CF		Jackhammer Post Hole In Rock.....	57.94	
32 31 13 13-0017	CF		Rock Drill Post Hole In Rock.....	17.28	
32 31 13 13-0018 Fill For Post Holes (32 31 13 13-0001)			See CSI section 03 21 00 00-0000 for reinforcing steel.		
32 31 13 13-0019 Concrete Fill For Post Holes (32 31 13 13-0018)					



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0020 VLF Up To 2-1/2" Diameter, Concrete Fill For Post Hole.....	4.90	
32 31 13 13-0021 VLF 2-1/2" Diameter, Concrete Fill For Post Hole.....	6.28	
32 31 13 13-0022 VLF 3" Diameter, Concrete Fill For Post Hole.....	6.95	
32 31 13 13-0023 VLF 4" Diameter, Concrete Fill For Post Hole.....	8.06	
32 31 13 13-0024 VLF 6" Diameter, Concrete Fill For Post Hole.....	11.42	
32 31 13 13-0025 VLF 8" Diameter, Concrete Fill For Post Hole.....	15.24	
32 31 13 13-0026 VLF 10" Diameter, Concrete Fill For Post Hole.....	18.67	
32 31 13 13-0027 VLF 12" Diameter, Concrete Fill For Post Hole.....	21.81	
32 31 13 13-0028 VLF 18" Diameter, Concrete Fill For Post Hole.....	29.92	
32 31 13 13-0029 VLF 24" Diameter, Concrete Fill For Post Hole.....	37.34	
32 31 13 13-0030 VLF 30" Diameter, Concrete Fill For Post Hole.....	44.59	
32 31 13 13-0031 VLF 36" Diameter, Concrete Fill For Post Hole.....	52.15	
32 31 13 13-0032 Grout Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0033 VLF Up To 2-1/2" Diameter, Grout Fill For Post Hole.....	5.73	
32 31 13 13-0034 VLF 2-1/2" Diameter, Grout Fill For Post Hole.....	7.40	
32 31 13 13-0035 VLF 3" Diameter, Grout Fill For Post Hole.....	8.09	
32 31 13 13-0036 VLF 4" Diameter, Grout Fill For Post Hole.....	9.16	
32 31 13 13-0037 VLF 6" Diameter, Grout Fill For Post Hole.....	12.83	
32 31 13 13-0038 VLF 8" Diameter, Grout Fill For Post Hole.....	17.14	
32 31 13 13-0039 VLF 10" Diameter, Grout Fill For Post Hole.....	20.90	
32 31 13 13-0040 VLF 12" Diameter, Grout Fill For Post Hole.....	24.32	
32 31 13 13-0041 VLF 18" Diameter, Grout Fill For Post Hole.....	32.75	
32 31 13 13-0042 VLF 24" Diameter, Grout Fill For Post Hole.....	40.25	
32 31 13 13-0043 VLF 30" Diameter, Grout Fill For Post Hole.....	47.54	
32 31 13 13-0044 VLF 36" Diameter, Grout Fill For Post Hole.....	55.05	
32 31 13 13-0045 Compacted Earth Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0046 VLF Up To 2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	3.90	
32 31 13 13-0047 VLF 2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	5.09	
32 31 13 13-0048 VLF 3" Diameter, Compacted Earth Fill For Post Hole.....	5.32	
32 31 13 13-0049 VLF 4" Diameter, Compacted Earth Fill For Post Hole.....	5.47	
32 31 13 13-0050 VLF 6" Diameter, Compacted Earth Fill For Post Hole.....	7.30	
32 31 13 13-0051 VLF 8" Diameter, Compacted Earth Fill For Post Hole.....	9.74	
32 31 13 13-0052 VLF 10" Diameter, Compacted Earth Fill For Post Hole.....	11.68	
32 31 13 13-0053 VLF 12" Diameter, Compacted Earth Fill For Post Hole.....	13.25	
32 31 13 13-0054 VLF 18" Diameter, Compacted Earth Fill For Post Hole.....	16.15	
32 31 13 13-0055 VLF 24" Diameter, Compacted Earth Fill For Post Hole.....	18.11	
32 31 13 13-0056 VLF 30" Diameter, Compacted Earth Fill For Post Hole.....	19.87	
32 31 13 13-0057 VLF 36" Diameter, Compacted Earth Fill For Post Hole.....	21.43	
32 31 13 13-0058 Fence Posts (32 31 13 13)		
Note: Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0059 Fence Posts (32 31 13 13-0058)		
32 31 13 13-0060 1-7/8" H-Beam Post Without Top Rail Fitting, Galvanized Steel (32 31 13 13-0059)		
Note: Includes cap and accessories.		
32 31 13 13-0061 LF 1-7/8" Galvanized H-beam Post, Up To 6' In Length.....	12.54	2.59
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0062 LF 1-7/8" Galvanized H-beam Post, 7' To 10' In Length.....	11.81	2.20
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0063 LF 1-7/8" Galvanized H-beam Post, 11' To 15' In Length.....	10.92	1.82
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0064 LF 1-7/8" Galvanized H-beam Post, 16' To 20' In Length.....	10.20	1.43
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0065 LF 1-7/8" Galvanized H-beam Post, 21' To 24' In Length.....	9.72	1.25
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0066 LF 1-7/8" Galvanized H-beam Post, >24' In Length.....	8.97	0.87
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0067 Post Without Top Rail Fitting, Galvanized Steel (1.66" Nominal) (32 31 13 13-0059)		
Note: 1-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0068 LF 1-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	8.89	2.39
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.03	
For Vinyl Coated, Add	2.46	
For Powder Coated, Add	3.28	
For Aluminum Coated, Add	5.13	
For Schedule 20, Deduct	-0.82	
For Schedule 80, Add	2.45	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0069	LF	1-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	8.14	2.01
		<i>For Each Top Rail Fitting, Add</i>	0.85	
		<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
		<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.03	
		<i>For Vinyl Coated, Add</i>	2.46	
		<i>For Powder Coated, Add</i>	3.28	
		<i>For Aluminum Coated, Add</i>	5.13	
		<i>For Schedule 20, Deduct</i>	-0.82	
		<i>For Schedule 80, Add</i>	2.37	
32 31 13 13-0070	LF	1-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	7.32	1.62
		<i>For Each Top Rail Fitting, Add</i>	0.85	
		<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
		<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.03	
		<i>For Vinyl Coated, Add</i>	2.46	
		<i>For Powder Coated, Add</i>	3.28	
		<i>For Aluminum Coated, Add</i>	5.13	
		<i>For Schedule 20, Deduct</i>	-0.82	
		<i>For Schedule 80, Add</i>	2.29	
32 31 13 13-0071	LF	1-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	6.69	1.25
		<i>For Each Top Rail Fitting, Add</i>	0.85	
		<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
		<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.03	
		<i>For Vinyl Coated, Add</i>	2.46	
		<i>For Powder Coated, Add</i>	3.28	
		<i>For Aluminum Coated, Add</i>	5.13	
		<i>For Schedule 20, Deduct</i>	-0.82	
		<i>For Schedule 80, Add</i>	2.23	
32 31 13 13-0072	LF	1-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	6.26	1.05
		<i>For Each Top Rail Fitting, Add</i>	0.85	
		<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
		<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.03	
		<i>For Vinyl Coated, Add</i>	2.46	
		<i>For Powder Coated, Add</i>	3.28	
		<i>For Aluminum Coated, Add</i>	5.13	
		<i>For Schedule 20, Deduct</i>	-0.82	
		<i>For Schedule 80, Add</i>	2.18	
32 31 13 13-0073	LF	1-5/8" Outside Diameter Galvanized Steel Post, >24' In Length.....	5.79	0.87
		<i>For Each Top Rail Fitting, Add</i>	0.85	
		<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
		<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.03	
		<i>For Vinyl Coated, Add</i>	2.46	
		<i>For Powder Coated, Add</i>	3.28	
		<i>For Aluminum Coated, Add</i>	5.13	
		<i>For Schedule 20, Deduct</i>	-0.82	
		<i>For Schedule 80, Add</i>	2.14	
32 31 13 13-0074		Post Without Top Rail Fitting, Galvanized Steel (1.90" Nominal) <small>(32 31 13 13-0059)</small>		
		Note: 2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0075	LF	2" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	9.96	2.49
		<i>For Each Top Rail Fitting, Add</i>	1.35	
		<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
		<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.25	
		<i>For Vinyl Coated, Add</i>	3.01	
		<i>For Powder Coated, Add</i>	4.01	
		<i>For Aluminum Coated, Add</i>	6.26	
		<i>For Schedule 20, Deduct</i>	-1.00	
		<i>For Schedule 80, Add</i>	2.90	
32 31 13 13-0076	LF	2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	9.29	2.10
		<i>For Each Top Rail Fitting, Add</i>	1.35	
		<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
		<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.25	
		<i>For Vinyl Coated, Add</i>	3.01	
		<i>For Powder Coated, Add</i>	4.01	
		<i>For Aluminum Coated, Add</i>	6.26	
		<i>For Schedule 20, Deduct</i>	-1.00	
		<i>For Schedule 80, Add</i>	2.83	
32 31 13 13-0077	LF	2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	8.43	1.72
		<i>For Each Top Rail Fitting, Add</i>	1.35	
		<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
		<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.25	
		<i>For Vinyl Coated, Add</i>	3.01	
		<i>For Powder Coated, Add</i>	4.01	
		<i>For Aluminum Coated, Add</i>	6.26	
		<i>For Schedule 20, Deduct</i>	-1.00	
		<i>For Schedule 80, Add</i>	2.75	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0078	LF	2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	7.75	1.34
			<i>For Each Top Rail Fitting, Add</i>	1.35	
			<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
			<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.25	
			<i>For Vinyl Coated, Add</i>	3.01	
			<i>For Powder Coated, Add</i>	4.01	
			<i>For Aluminum Coated, Add</i>	6.26	
			<i>For Schedule 20, Deduct</i>	-1.00	
			<i>For Schedule 80, Add</i>	2.68	
32 31	13 13-0079	LF	2" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	7.29	1.15
			<i>For Each Top Rail Fitting, Add</i>	1.35	
			<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
			<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.25	
			<i>For Vinyl Coated, Add</i>	3.01	
			<i>For Powder Coated, Add</i>	4.01	
			<i>For Aluminum Coated, Add</i>	6.26	
			<i>For Schedule 20, Deduct</i>	-1.00	
			<i>For Schedule 80, Add</i>	2.63	
32 31	13 13-0080	LF	2" Outside Diameter Galvanized Steel Post, >24' In Length.....	6.86	0.95
			<i>For Each Top Rail Fitting, Add</i>	1.35	
			<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
			<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.25	
			<i>For Vinyl Coated, Add</i>	3.01	
			<i>For Powder Coated, Add</i>	4.01	
			<i>For Aluminum Coated, Add</i>	6.26	
			<i>For Schedule 20, Deduct</i>	-1.00	
			<i>For Schedule 80, Add</i>	2.59	
32 31	13 13-0081		Post Without Top Rail Fitting, Galvanized Steel (2.375" Nominal) <small>(32 31 13 13-0089)</small>		
			Note: 2-1/2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31	13 13-0082	LF	2-1/2" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	11.87	2.68
			<i>For Each Top Rail Fitting, Add</i>	1.35	
			<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
			<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.67	
			<i>For Vinyl Coated, Add</i>	4.00	
			<i>For Powder Coated, Add</i>	5.33	
			<i>For Aluminum Coated, Add</i>	8.33	
			<i>For Schedule 20, Deduct</i>	-1.33	
			<i>For Schedule 80, Add</i>	3.72	
32 31	13 13-0083	LF	2-1/2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	11.14	2.30
			<i>For Each Top Rail Fitting, Add</i>	1.35	
			<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
			<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.67	
			<i>For Vinyl Coated, Add</i>	4.00	
			<i>For Powder Coated, Add</i>	5.33	
			<i>For Aluminum Coated, Add</i>	8.33	
			<i>For Schedule 20, Deduct</i>	-1.33	
			<i>For Schedule 80, Add</i>	3.64	
32 31	13 13-0084	LF	2-1/2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	10.25	1.82
			<i>For Each Top Rail Fitting, Add</i>	1.35	
			<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
			<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.67	
			<i>For Vinyl Coated, Add</i>	4.00	
			<i>For Powder Coated, Add</i>	5.33	
			<i>For Aluminum Coated, Add</i>	8.33	
			<i>For Schedule 20, Deduct</i>	-1.33	
			<i>For Schedule 80, Add</i>	3.56	
32 31	13 13-0085	LF	2-1/2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	9.53	1.43
			<i>For Each Top Rail Fitting, Add</i>	1.35	
			<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
			<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.67	
			<i>For Vinyl Coated, Add</i>	4.00	
			<i>For Powder Coated, Add</i>	5.33	
			<i>For Aluminum Coated, Add</i>	8.33	
			<i>For Schedule 20, Deduct</i>	-1.33	
			<i>For Schedule 80, Add</i>	3.48	
32 31	13 13-0086	LF	2-1/2" Outside Diameter Galvanized Steel Post, 21 To 24' In Length.....	9.05	1.25
			<i>For Each Top Rail Fitting, Add</i>	1.35	
			<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
			<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.67	
			<i>For Vinyl Coated, Add</i>	4.00	
			<i>For Powder Coated, Add</i>	5.33	
			<i>For Aluminum Coated, Add</i>	8.33	
			<i>For Schedule 20, Deduct</i>	-1.33	
			<i>For Schedule 80, Add</i>	3.44	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0087 LF 2-1/2" Outside Diameter Galvanized Steel Post, >24' In Length.....	8.60	0.95
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.67	
For Vinyl Coated, Add	4.00	
For Powder Coated, Add	5.33	
For Aluminum Coated, Add	8.33	
For Schedule 20, Deduct	-1.33	
For Schedule 80, Add	3.39	
32 31 13 13-0088 Post Without Top Rail Fitting, Galvanized Steel (2.875" Nominal) (32 31 13 13-0059)		
Note: 3" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0089 LF 3" Outside Diameter Galvanized Steel Post, Up To 6' In Length	15.69	2.87
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.49	
For Vinyl Coated, Add	5.97	
For Powder Coated, Add	7.96	
For Aluminum Coated, Add	12.44	
For Schedule 20, Deduct	-1.99	
For Schedule 80, Add	5.35	
32 31 13 13-0090 LF 3" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	14.90	2.49
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.49	
For Vinyl Coated, Add	5.97	
For Powder Coated, Add	7.96	
For Aluminum Coated, Add	12.44	
For Schedule 20, Deduct	-1.99	
For Schedule 80, Add	5.27	
32 31 13 13-0091 LF 3" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	13.94	2.01
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.49	
For Vinyl Coated, Add	5.97	
For Powder Coated, Add	7.96	
For Aluminum Coated, Add	12.44	
For Schedule 20, Deduct	-1.99	
For Schedule 80, Add	5.18	
32 31 13 13-0092 LF 3" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	13.14	1.62
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.49	
For Vinyl Coated, Add	5.97	
For Powder Coated, Add	7.96	
For Aluminum Coated, Add	12.44	
For Schedule 20, Deduct	-1.99	
For Schedule 80, Add	5.10	
32 31 13 13-0093 LF 3" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	12.61	1.34
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.49	
For Vinyl Coated, Add	5.97	
For Powder Coated, Add	7.96	
For Aluminum Coated, Add	12.44	
For Schedule 20, Deduct	-1.99	
For Schedule 80, Add	5.04	
32 31 13 13-0094 LF 3" Outside Diameter Galvanized Steel Post, >24' In Length.....	12.11	1.05
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.49	
For Vinyl Coated, Add	5.97	
For Powder Coated, Add	7.96	
For Aluminum Coated, Add	12.44	
For Schedule 20, Deduct	-1.99	
For Schedule 80, Add	4.99	
32 31 13 13-0095 Post Without Top Rail Fitting, Galvanized Steel, (4" Nominal) (32 31 13 13-0059)		
Note: 4" outside diameter, Schedule 40. Includes cap and accessories.		



		Exterior Improvements	32
		Site Improvements	32 30
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0096 LF 4" Outside Diameter Galvanized Steel Post, Up To 6' In Length	22.22	3.07
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.04	
For Vinyl Coated, Add	9.70	
For Powder Coated, Add	12.94	
For Aluminum Coated, Add	20.21	
For Schedule 20, Deduct	-3.23	
For Schedule 80, Add	8.37	
32 31 13 13-0097 LF 4" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	21.21	2.49
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.04	
For Vinyl Coated, Add	9.70	
For Powder Coated, Add	12.94	
For Aluminum Coated, Add	20.21	
For Schedule 20, Deduct	-3.23	
For Schedule 80, Add	8.27	
32 31 13 13-0098 LF 4" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	20.37	2.10
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.04	
For Vinyl Coated, Add	9.70	
For Powder Coated, Add	12.94	
For Aluminum Coated, Add	20.21	
For Schedule 20, Deduct	-3.23	
For Schedule 80, Add	8.18	
32 31 13 13-0099 LF 4" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	19.53	1.72
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.04	
For Vinyl Coated, Add	9.70	
For Powder Coated, Add	12.94	
For Aluminum Coated, Add	20.21	
For Schedule 20, Deduct	-3.23	
For Schedule 80, Add	8.10	
32 31 13 13-0100 LF 4" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	19.52	1.72
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.04	
For Vinyl Coated, Add	9.70	
For Powder Coated, Add	12.94	
For Aluminum Coated, Add	20.21	
For Schedule 20, Deduct	-3.23	
For Schedule 80, Add	8.10	
32 31 13 13-0101 LF 4" Outside Diameter Galvanized Steel Post, >24' In Length	18.56	1.25
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.04	
For Vinyl Coated, Add	9.70	
For Powder Coated, Add	12.94	
For Aluminum Coated, Add	20.21	
For Schedule 20, Deduct	-3.23	
For Schedule 80, Add	8.00	
32 31 13 13-0102 Post Without Top Rail Fitting, Galvanized Steel (6.625" Nominal) (32 31 13 13-0059)		
Note: 6-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0103 LF 6-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length	41.01	3.35
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	8.58	
For Vinyl Coated, Add	20.58	
For Powder Coated, Add	27.44	
For Aluminum Coated, Add	42.88	
For Schedule 20, Deduct	-6.86	
For Schedule 80, Add	17.14	
32 31 13 13-0104 LF 6-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	39.93	2.77
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	8.58	
For Vinyl Coated, Add	20.58	
For Powder Coated, Add	27.44	
For Aluminum Coated, Add	42.88	
For Schedule 20, Deduct	-6.86	
For Schedule 80, Add	17.03	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0105	LF	6-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	38.97	2.30
			<i>For Each Top Rail Fitting, Add</i>	4.55	
			<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	8.58	
			<i>For Vinyl Coated, Add</i>	20.58	
			<i>For Powder Coated, Add</i>	27.44	
			<i>For Aluminum Coated, Add</i>	42.88	
			<i>For Schedule 20, Deduct</i>	-6.86	
			<i>For Schedule 80, Add</i>	16.93	
32 31	13 13-0106	LF	6-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	38.02	1.82
			<i>For Each Top Rail Fitting, Add</i>	4.55	
			<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	8.58	
			<i>For Vinyl Coated, Add</i>	20.58	
			<i>For Powder Coated, Add</i>	27.44	
			<i>For Aluminum Coated, Add</i>	42.88	
			<i>For Schedule 20, Deduct</i>	-6.86	
			<i>For Schedule 80, Add</i>	16.84	
32 31	13 13-0107	LF	6-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	37.49	1.62
			<i>For Each Top Rail Fitting, Add</i>	4.55	
			<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	8.58	
			<i>For Vinyl Coated, Add</i>	20.58	
			<i>For Powder Coated, Add</i>	27.44	
			<i>For Aluminum Coated, Add</i>	42.88	
			<i>For Schedule 20, Deduct</i>	-6.86	
			<i>For Schedule 80, Add</i>	16.78	
32 31	13 13-0108	LF	6-5/8" Outside Diameter Galvanized Steel Post, >24' In Length.....	36.96	1.34
			<i>For Each Top Rail Fitting, Add</i>	4.55	
			<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	8.58	
			<i>For Vinyl Coated, Add</i>	20.58	
			<i>For Powder Coated, Add</i>	27.44	
			<i>For Aluminum Coated, Add</i>	42.88	
			<i>For Schedule 20, Deduct</i>	-6.86	
			<i>For Schedule 80, Add</i>	16.73	
32 31	13 13-0109		Post Without Top Rail Fitting, Galvanized Steel (8.625" Nominal) (32 31 13 13-0059)		
			Note: 8-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31	13 13-0110	LF	8-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	77.74	3.74
			<i>For Each Top Rail Fitting, Add</i>	7.50	
			<i>For Each Single Barbed Wire Arm, Add</i>	9.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	18.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	17.57	
			<i>For Vinyl Coated, Add</i>	42.17	
			<i>For Powder Coated, Add</i>	56.22	
			<i>For Aluminum Coated, Add</i>	87.85	
			<i>For Schedule 20, Deduct</i>	-14.06	
			<i>For Schedule 80, Add</i>	34.48	
32 31	13 13-0111	LF	8-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	76.52	3.16
			<i>For Each Top Rail Fitting, Add</i>	7.50	
			<i>For Each Single Barbed Wire Arm, Add</i>	9.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	18.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	17.57	
			<i>For Vinyl Coated, Add</i>	42.17	
			<i>For Powder Coated, Add</i>	56.22	
			<i>For Aluminum Coated, Add</i>	87.85	
			<i>For Schedule 20, Deduct</i>	-14.06	
			<i>For Schedule 80, Add</i>	34.36	
32 31	13 13-0112	LF	8-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	75.45	2.59
			<i>For Each Top Rail Fitting, Add</i>	7.50	
			<i>For Each Single Barbed Wire Arm, Add</i>	9.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	18.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	17.57	
			<i>For Vinyl Coated, Add</i>	42.17	
			<i>For Powder Coated, Add</i>	56.22	
			<i>For Aluminum Coated, Add</i>	87.85	
			<i>For Schedule 20, Deduct</i>	-14.06	
			<i>For Schedule 80, Add</i>	34.25	
32 31	13 13-0113	LF	8-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	74.38	2.01
			<i>For Each Top Rail Fitting, Add</i>	7.50	
			<i>For Each Single Barbed Wire Arm, Add</i>	9.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	18.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	17.57	
			<i>For Vinyl Coated, Add</i>	42.17	
			<i>For Powder Coated, Add</i>	56.22	
			<i>For Aluminum Coated, Add</i>	87.85	
			<i>For Schedule 20, Deduct</i>	-14.06	
			<i>For Schedule 80, Add</i>	34.14	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences And Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0114 LF 8-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	73.83	1.72
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	17.57	
For Vinyl Coated, Add	42.17	
For Powder Coated, Add	56.22	
For Aluminum Coated, Add	87.85	
For Schedule 20, Deduct	-14.06	
For Schedule 80, Add	34.09	
32 31 13 13-0115 LF 8-5/8" Outside Diameter Galvanized Steel Post, >24' In Length.....	73.24	1.43
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	17.57	
For Vinyl Coated, Add	42.17	
For Powder Coated, Add	56.22	
For Aluminum Coated, Add	87.85	
For Schedule 20, Deduct	-14.06	
For Schedule 80, Add	34.03	
32 31 13 13-0116 Driven Post Supports (32 31 13 13)		
Note: OZ-Post.		
32 31 13 13-0117 Driven Post Support For Round Chain Link Fence Posts (32 31 13 13-0116)		
32 31 13 13-0118 EA 26" Driven Post Support For 1-5/8" Round Chain Link Fence Post	54.79	
Note: OZ-Post GB-700.		
32 31 13 13-0119 EA 26" Driven Post Support For 1-7/8" Round Chain Link Fence Post	54.79	
Note: OZ-Post HB-700.		
32 31 13 13-0120 EA 26" Driven Post Support For 2-3/8" Round Chain Link Fence Post	56.03	
Note: OZ-Post IS-600.		
32 31 13 13-0121 EA 32" Driven Post Support For 2-3/8" Round Chain Link Fence Post	67.63	
Note: OZ-Post ISW-850.		
32 31 13 13-0122 Driven Post Support For Square Ornamental Fence Posts (32 31 13 13-0116)		
32 31 13 13-0123 EA 34" Driven Post Support For 1-3/4" Square Ornamental Fence Post	63.92	
Note: OZ-Post C175-850.		
32 31 13 13-0124 EA 24" Driven Post Support For 2" Square Ornamental Fence Post.....	62.06	
Note: OZ-Post I2-600.		
32 31 13 13-0125 EA 34" Driven Post Support For 2" Square Ornamental Fence Post.....	64.29	
Note: OZ-Post I2-850.		
32 31 13 13-0126 EA 34" Driven Post Support For 2-1/2" Square Ornamental Fence Post	67.63	
Note: OZ-Post I25-850.		
32 31 13 13-0127 EA 34" Driven Post Support For 3" Square Ornamental Fence Post.....	67.63	
Note: OZ-Post I3-850.		
32 31 13 13-0128 Driven Post Support For Wooden Fence Posts (32 31 13 13-0116)		
32 31 13 13-0129 EA 24" Driven Post Support For 3-1/2" Square Wooden Fence Post.....	61.38	
Note: OZ-Post T4-600.		
32 31 13 13-0130 EA 34" Driven Post Support For 3-1/2" Square Wooden Fence Post.....	65.77	
Note: OZ-Post T4-850.		
32 31 13 13-0131 EA 34" Driven Post Support For 3-3/4" Square Wooden Fence Post.....	70.10	
Note: OZ-Post C4-850.		
32 31 13 13-0132 EA 34" Driven Post Support For 4" Square Wooden Fence Post.....	70.10	
Note: OZ-Post P4-850.		
32 31 13 13-0133 EA 36" Driven Post Support For 4" x 6" Wooden Fence Post	78.14	
Note: OZ-Post T46-850.		
32 31 13 13-0134 EA 36" Driven Post Support For 6" Square Wooden Fence Post	83.82	
Note: OZ-Post T6-850.		
32 31 13 13-0135 Driven Post Support For Vinyl Fence Posts (32 31 13 13-0116)		
32 31 13 13-0136 EA 24" Driven Post Support For 3-1/2" Square Vinyl Fence Post	61.38	
Note: OZ-Post T4-600.		
32 31 13 13-0137 EA 34" Driven Post Support For 3-1/2" Square Vinyl Fence Post	65.77	
Note: OZ-Post T4-850.		
32 31 13 13-0138 EA 34" Driven Post Support For 4" Square Vinyl Fence Post.....	70.10	
Note: OZ-Post P4-850.		
32 31 13 13-0139 EA 34" Driven Post Support For 5" Square Vinyl Fence Post.....	71.09	
Note: OZ-Post P4-850.		
32 31 13 13-0140 Chain Link Fence Assemblies (32 31 13 13)		
32 31 13 13-0141 Chain Link Fence Assembly With 2-1/2" Line Post And 3" Corner Posts (32 31 13 13-0140)		
Note: Includes 2" 9 gauge coiled spring mesh (knuckled selvedge), tension bars, post tension bands, wire ties, truss rod (at corners or posts), 1-5/8" top rail, 1-5/8" bottom rail, 2-1/2" line post and 3" corner posts. Posts exclude drilling or augering in soil or rock, concrete or soil fill. Heights indicated are from ground to top of installed pole. Minimum 2' bury with up to one third of exposed post height to be buried in ground. Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0668 for barb wire attachments.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0142			Galvanized <small>(32 31 13 13-0141)</small>		
32 31 13 13-0143	LF		3' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	25.63	3.25
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	1.92	
			<i>For 13 Gauge Fabric, Deduct</i>	-4.48	
			<i>For 11 Gauge Fabric, Deduct</i>	-2.62	
			<i>For 6 Gauge Fabric, Add</i>	4.11	
			<i>For 1" Mesh Fabric, Add</i>	5.61	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2.24	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.12	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.50	
			<i>For Posts 8' On Centers, Add</i>	1.43	
			<i>For Posts 5' On Centers, Add</i>	5.44	
			<i>For Up To 100, Add</i>	5.12	
			<i>For >100 To 250, Add</i>	1.92	
			<i>For >2,500 To 5,000, Deduct</i>	-0.96	
			<i>For >5,000, Deduct</i>	-1.92	
32 31 13 13-0144	LF		3'-6" Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	26.56	3.25
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	1.98	
			<i>For 13 Gauge Fabric, Deduct</i>	-4.73	
			<i>For 11 Gauge Fabric, Deduct</i>	-2.76	
			<i>For 6 Gauge Fabric, Add</i>	4.34	
			<i>For 1" Mesh Fabric, Add</i>	5.92	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2.37	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.18	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.58	
			<i>For Posts 8' On Centers, Add</i>	1.48	
			<i>For Posts 5' On Centers, Add</i>	5.62	
			<i>For Up To 100, Add</i>	5.28	
			<i>For >100 To 250, Add</i>	1.98	
			<i>For >2,500 To 5,000, Deduct</i>	-0.99	
			<i>For >5,000, Deduct</i>	-1.98	
32 31 13 13-0145	LF		4' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	27.38	3.25
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.03	
			<i>For 13 Gauge Fabric, Deduct</i>	-4.94	
			<i>For 11 Gauge Fabric, Deduct</i>	-2.89	
			<i>For 6 Gauge Fabric, Add</i>	4.54	
			<i>For 1" Mesh Fabric, Add</i>	6.19	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2.48	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.24	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.65	
			<i>For Posts 8' On Centers, Add</i>	1.53	
			<i>For Posts 5' On Centers, Add</i>	5.78	
			<i>For Up To 100, Add</i>	5.42	
			<i>For >100 To 250, Add</i>	2.03	
			<i>For >2,500 To 5,000, Deduct</i>	-1.01	
			<i>For >5,000, Deduct</i>	-2.03	
32 31 13 13-0146	LF		5' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	29.27	3.25
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.14	
			<i>For 13 Gauge Fabric, Deduct</i>	-5.46	
			<i>For 11 Gauge Fabric, Deduct</i>	-3.19	
			<i>For 6 Gauge Fabric, Add</i>	5.01	
			<i>For 1" Mesh Fabric, Add</i>	6.83	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2.73	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.37	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.82	
			<i>For Posts 8' On Centers, Add</i>	1.63	
			<i>For Posts 5' On Centers, Add</i>	6.15	
			<i>For Up To 100, Add</i>	5.75	
			<i>For >100 To 250, Add</i>	2.14	
			<i>For >2,500 To 5,000, Deduct</i>	-1.07	
			<i>For >5,000, Deduct</i>	-2.14	
32 31 13 13-0147	LF		6' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	31.63	3.25
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.30	
			<i>For 13 Gauge Fabric, Deduct</i>	-5.97	
			<i>For 11 Gauge Fabric, Deduct</i>	-3.49	
			<i>For 6 Gauge Fabric, Add</i>	5.48	
			<i>For 1" Mesh Fabric, Add</i>	7.47	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2.99	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.49	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.99	
			<i>For Posts 8' On Centers, Add</i>	1.75	
			<i>For Posts 5' On Centers, Add</i>	6.63	
			<i>For Up To 100, Add</i>	6.19	
			<i>For >100 To 250, Add</i>	2.30	
			<i>For >2,500 To 5,000, Deduct</i>	-1.15	
			<i>For >5,000, Deduct</i>	-2.30	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences And Gates	32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0148	LF	7' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	32.86	4.88
32 31	13 13-0149	LF	8' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	36.91	5.70
32 31	13 13-0150	LF	9' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	39.28	7.32
32 31	13 13-0151	LF	10' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	41.66	8.13
32 31	13 13-0152	LF	12' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Each Additional Foot >12, Add</i> <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	46.12	9.76
32 31	13 13-0153		Vinyl Coated (32 31 13 13-0141)		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0154	LF	4' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	28.24	3.25
			<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	2.26	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.07	
			<i>For 13 Gauge Fabric, Deduct</i>	-5.24	
			<i>For 11 Gauge Fabric, Deduct</i>	-3.06	
			<i>For 6 Gauge Fabric, Add</i>	4.81	
			<i>For 1" Mesh Fabric, Add</i>	6.56	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2.63	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.31	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.75	
			<i>For Posts 8' On Centers, Add</i>	1.57	
			<i>For Posts 5' On Centers, Add</i>	5.94	
			<i>For Up To 100, Add</i>	5.55	
			<i>For >100 To 250, Add</i>	2.07	
			<i>For >2,500 To 5,000, Deduct</i>	-1.03	
			<i>For >5,000, Deduct</i>	-2.07	
32 31	13 13-0155	LF	5' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	30.36	3.25
			<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	2.52	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.20	
			<i>For 13 Gauge Fabric, Deduct</i>	-5.83	
			<i>For 11 Gauge Fabric, Deduct</i>	-3.41	
			<i>For 6 Gauge Fabric, Add</i>	5.36	
			<i>For 1" Mesh Fabric, Add</i>	7.30	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2.92	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.46	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.95	
			<i>For Posts 8' On Centers, Add</i>	1.68	
			<i>For Posts 5' On Centers, Add</i>	6.35	
			<i>For Up To 100, Add</i>	5.91	
			<i>For >100 To 250, Add</i>	2.20	
			<i>For >2,500 To 5,000, Deduct</i>	-1.10	
			<i>For >5,000, Deduct</i>	-2.20	
32 31	13 13-0156	LF	6' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	33.85	3.25
			<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	2.91	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.42	
			<i>For 13 Gauge Fabric, Deduct</i>	-6.74	
			<i>For 11 Gauge Fabric, Deduct</i>	-3.94	
			<i>For 6 Gauge Fabric, Add</i>	6.19	
			<i>For 1" Mesh Fabric, Add</i>	8.44	
			<i>For 1-3/4" Mesh Fabric, Add</i>	3.38	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.69	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.25	
			<i>For Posts 8' On Centers, Add</i>	1.87	
			<i>For Posts 5' On Centers, Add</i>	7.03	
			<i>For Up To 100, Add</i>	6.52	
			<i>For >100 To 250, Add</i>	2.42	
			<i>For >2,500 To 5,000, Deduct</i>	-1.21	
			<i>For >5,000, Deduct</i>	-2.42	
32 31	13 13-0157	LF	7' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	35.43	4.88
			<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	3.06	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.52	
			<i>For 13 Gauge Fabric, Deduct</i>	-7.10	
			<i>For 11 Gauge Fabric, Deduct</i>	-4.15	
			<i>For 6 Gauge Fabric, Add</i>	6.52	
			<i>For 1" Mesh Fabric, Add</i>	8.89	
			<i>For 1-3/4" Mesh Fabric, Add</i>	3.55	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.78	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.37	
			<i>For Posts 8' On Centers, Add</i>	1.95	
			<i>For Posts 5' On Centers, Add</i>	7.35	
			<i>For Up To 100, Add</i>	6.81	
			<i>For >100 To 250, Add</i>	2.52	
			<i>For >2,500 To 5,000, Deduct</i>	-1.26	
			<i>For >5,000, Deduct</i>	-2.52	
32 31	13 13-0158	LF	8' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	39.91	5.70
			<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	3.59	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.79	
			<i>For 13 Gauge Fabric, Deduct</i>	-8.32	
			<i>For 11 Gauge Fabric, Deduct</i>	-4.86	
			<i>For 6 Gauge Fabric, Add</i>	7.64	
			<i>For 1" Mesh Fabric, Add</i>	10.41	
			<i>For 1-3/4" Mesh Fabric, Add</i>	4.17	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.08	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.78	
			<i>For Posts 8' On Centers, Add</i>	2.19	
			<i>For Posts 5' On Centers, Add</i>	8.22	
			<i>For Up To 100, Add</i>	7.58	
			<i>For >100 To 250, Add</i>	2.79	
			<i>For >2,500 To 5,000, Deduct</i>	-1.40	
			<i>For >5,000, Deduct</i>	-2.79	



Exterior Improvements	32	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0159 LF 9' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	42.51	7.32
For Powder Coated Framework (Posts, Rails, Hardware), Add	3.87	
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.96	
For 13 Gauge Fabric, Deduct	-8.96	
For 11 Gauge Fabric, Deduct	-5.23	
For 6 Gauge Fabric, Add	8.22	
For 1" Mesh Fabric, Add	11.21	
For 1-3/4" Mesh Fabric, Add	4.49	
For 2-1/8" Mesh Fabric, Deduct	-2.24	
For 2-3/8" Mesh Fabric, Deduct	-2.99	
For Posts 8' On Centers, Add	2.33	
For Posts 5' On Centers, Add	8.74	
For Up To 100, Add	8.05	
For >100 To 250, Add	2.96	
For >2,500 To 5,000, Deduct	-1.48	
For >5,000, Deduct	-2.96	
32 31 13 13-0160 LF 10' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	45.10	8.13
For Powder Coated Framework (Posts, Rails, Hardware), Add	4.14	
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.13	
For 13 Gauge Fabric, Deduct	-9.59	
For 11 Gauge Fabric, Deduct	-5.60	
For 6 Gauge Fabric, Add	8.81	
For 1" Mesh Fabric, Add	12.01	
For 1-3/4" Mesh Fabric, Add	4.80	
For 2-1/8" Mesh Fabric, Deduct	-2.40	
For 2-3/8" Mesh Fabric, Deduct	-3.20	
For Posts 8' On Centers, Add	2.46	
For Posts 5' On Centers, Add	9.25	
For Up To 100, Add	8.51	
For >100 To 250, Add	3.13	
For >2,500 To 5,000, Deduct	-1.56	
For >5,000, Deduct	-3.13	
32 31 13 13-0161 LF 12' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	49.15	9.76
For Each Additional Foot >12, Add	3.90	
For Powder Coated Framework (Posts, Rails, Hardware), Add	4.53	
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.41	
For 13 Gauge Fabric, Deduct	-10.49	
For 11 Gauge Fabric, Deduct	-6.13	
For 6 Gauge Fabric, Add	9.63	
For 1" Mesh Fabric, Add	13.14	
For 1-3/4" Mesh Fabric, Add	5.25	
For 2-1/8" Mesh Fabric, Deduct	-2.63	
For 2-3/8" Mesh Fabric, Deduct	-3.50	
For Posts 8' On Centers, Add	2.68	
For Posts 5' On Centers, Add	10.08	
For Up To 100, Add	9.27	
For >100 To 250, Add	3.41	
For >2,500 To 5,000, Deduct	-1.70	
For >5,000, Deduct	-3.41	
32 31 13 13-0162 Rails <small>(32 31 13 13)</small> Note: Includes rail end fittings.		
32 31 13 13-0163 SS-20 Chain Link Fence Rails <small>(32 31 13 13-0162)</small> Note: Includes tie wires.		
32 31 13 13-0164 LF 1-3/8" Galvanized Steel Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	4.61	1.05
For SS15, Deduct	-0.24	
For SS40, Add	0.60	
32 31 13 13-0165 LF 1-3/8" Vinyl Coated Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	5.43	1.05
For SS40, Add	0.32	
For Powder Coated, Add	0.65	
For Aluminum Coated, Add	1.29	
32 31 13 13-0166 LF 1-5/8" Galvanized Steel Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	5.61	1.19
For SS15, Deduct	-0.32	
For SS40, Add	0.81	
32 31 13 13-0167 LF 1-5/8" Vinyl Coated Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	6.69	1.19
For SS40, Add	0.43	
For Powder Coated, Add	0.86	
For Aluminum Coated, Add	1.72	
32 31 13 13-0168 LF 2" Galvanized Steel Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	6.54	1.34
For SS40, Add	0.97	
32 31 13 13-0169 LF 2" Vinyl Coated Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	7.85	1.34
For SS40, Add	0.52	
For Powder Coated, Add	1.03	
For Aluminum Coated, Add	2.07	
32 31 13 13-0170 Fabric <small>(32 31 13 13)</small>		
32 31 13 13-0171 Fabric, Galvanized Chain Link <small>(32 31 13 13-0170)</small>		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0172	LF	3' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	8.35	1.92
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	0.53	
			<i>For 13 Gauge Fabric, Deduct</i>	-0.96	
			<i>For 11 Gauge Fabric, Deduct</i>	-0.53	
			<i>For 6 Gauge Fabric, Add</i>	1.70	
			<i>For 1" Mesh Fabric, Add</i>	1.60	
			<i>For 1-3/4" Mesh Fabric, Add</i>	0.64	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.32	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.43	
32 31	13 13-0173	LF	3-6" Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	9.18	2.16
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	0.62	
			<i>For 13 Gauge Fabric, Deduct</i>	-1.12	
			<i>For 11 Gauge Fabric, Deduct</i>	-0.62	
			<i>For 6 Gauge Fabric, Add</i>	1.99	
			<i>For 1" Mesh Fabric, Add</i>	1.87	
			<i>For 1-3/4" Mesh Fabric, Add</i>	0.75	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.37	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.50	
32 31	13 13-0174	LF	4' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	9.91	2.39
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	0.68	
			<i>For 13 Gauge Fabric, Deduct</i>	-1.23	
			<i>For 11 Gauge Fabric, Deduct</i>	-0.68	
			<i>For 6 Gauge Fabric, Add</i>	2.18	
			<i>For 1" Mesh Fabric, Add</i>	2.05	
			<i>For 1-3/4" Mesh Fabric, Add</i>	0.82	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.41	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.55	
32 31	13 13-0175	LF	5' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	11.07	2.87
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	0.85	
			<i>For 13 Gauge Fabric, Deduct</i>	-1.53	
			<i>For 11 Gauge Fabric, Deduct</i>	-0.85	
			<i>For 6 Gauge Fabric, Add</i>	2.73	
			<i>For 1" Mesh Fabric, Add</i>	2.56	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1.02	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.51	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.68	
32 31	13 13-0176	LF	6' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	12.30	3.35
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	1.03	
			<i>For 13 Gauge Fabric, Deduct</i>	-1.85	
			<i>For 11 Gauge Fabric, Deduct</i>	-1.03	
			<i>For 6 Gauge Fabric, Add</i>	3.28	
			<i>For 1" Mesh Fabric, Add</i>	3.08	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1.23	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.62	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.82	
32 31	13 13-0177	LF	7' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	13.60	3.82
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	1.19	
			<i>For 13 Gauge Fabric, Deduct</i>	-2.15	
			<i>For 11 Gauge Fabric, Deduct</i>	-1.19	
			<i>For 6 Gauge Fabric, Add</i>	3.82	
			<i>For 1" Mesh Fabric, Add</i>	3.58	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1.43	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.72	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.95	
32 31	13 13-0178	LF	8' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	15.02	4.79
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	1.37	
			<i>For 13 Gauge Fabric, Deduct</i>	-2.46	
			<i>For 11 Gauge Fabric, Deduct</i>	-1.37	
			<i>For 6 Gauge Fabric, Add</i>	4.37	
			<i>For 1" Mesh Fabric, Add</i>	4.10	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1.64	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.82	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.09	
32 31	13 13-0179	LF	10' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	17.65	5.26
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	1.77	
			<i>For 13 Gauge Fabric, Deduct</i>	-3.19	
			<i>For 11 Gauge Fabric, Deduct</i>	-1.77	
			<i>For 6 Gauge Fabric, Add</i>	5.67	
			<i>For 1" Mesh Fabric, Add</i>	5.32	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2.13	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.06	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.42	
32 31	13 13-0180	LF	12' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	19.97	5.74
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	2.12	
			<i>For 13 Gauge Fabric, Deduct</i>	-3.82	
			<i>For 11 Gauge Fabric, Deduct</i>	-2.12	
			<i>For 6 Gauge Fabric, Add</i>	6.79	
			<i>For 1" Mesh Fabric, Add</i>	6.37	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2.55	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.27	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.70	



	Exterior Improvements	32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0181	LF	14' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	22.52	6.69
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	2.28	
			<i>For 13 Gauge Fabric, Deduct</i>	-4.10	
			<i>For 11 Gauge Fabric, Deduct</i>	-2.28	
			<i>For 6 Gauge Fabric, Add</i>	7.30	
			<i>For 1" Mesh Fabric, Add</i>	6.84	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2.74	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.37	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.82	
32 31	13 13-0182	LF	16' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	25.06	7.66
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	2.44	
			<i>For 13 Gauge Fabric, Deduct</i>	-4.39	
			<i>For 11 Gauge Fabric, Deduct</i>	-2.44	
			<i>For 6 Gauge Fabric, Add</i>	7.80	
			<i>For 1" Mesh Fabric, Add</i>	7.31	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2.93	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.46	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.95	
32 31	13 13-0183	SF	>16' Full Height Fabric Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	1.56	0.45
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	0.15	
			<i>For 13 Gauge Fabric, Deduct</i>	-0.27	
			<i>For 11 Gauge Fabric, Deduct</i>	-0.15	
			<i>For 6 Gauge Fabric, Add</i>	0.49	
			<i>For 1" Mesh Fabric, Add</i>	0.46	
			<i>For 1-3/4" Mesh Fabric, Add</i>	0.18	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.09	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.12	
32 31 13 13-0184 Fabric, Vinyl Coated Chain Link <small>(32 31 13 13-0170)</small>					
32 31	13 13-0185	LF	4' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	10.78	1.92
			<i>For 13 Gauge Fabric, Deduct</i>	-1.62	
			<i>For 11 Gauge Fabric, Deduct</i>	-0.90	
			<i>For 6 Gauge Fabric, Add</i>	2.88	
			<i>For 1" Mesh Fabric, Add</i>	2.70	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1.08	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.54	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.72	
			<i>For Aluminum Coated, Add</i>	1.44	
32 31	13 13-0186	LF	5' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	12.16	2.87
			<i>For 13 Gauge Fabric, Deduct</i>	-2.03	
			<i>For 11 Gauge Fabric, Deduct</i>	-1.13	
			<i>For 6 Gauge Fabric, Add</i>	3.60	
			<i>For 1" Mesh Fabric, Add</i>	3.38	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1.35	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.68	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.90	
			<i>For Aluminum Coated, Add</i>	1.80	
32 31	13 13-0187	LF	6' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	14.51	3.35
			<i>For 13 Gauge Fabric, Deduct</i>	-2.84	
			<i>For 11 Gauge Fabric, Deduct</i>	-1.58	
			<i>For 6 Gauge Fabric, Add</i>	5.05	
			<i>For 1" Mesh Fabric, Add</i>	4.73	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1.89	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.95	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.26	
			<i>For Aluminum Coated, Add</i>	2.52	
32 31	13 13-0188	LF	7' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	16.18	3.82
			<i>For 13 Gauge Fabric, Deduct</i>	-3.31	
			<i>For 11 Gauge Fabric, Deduct</i>	-1.84	
			<i>For 6 Gauge Fabric, Add</i>	5.88	
			<i>For 1" Mesh Fabric, Add</i>	5.51	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2.21	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.10	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.47	
			<i>For Aluminum Coated, Add</i>	2.94	
32 31	13 13-0189	LF	8' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	18.02	4.79
			<i>For 13 Gauge Fabric, Deduct</i>	-3.81	
			<i>For 11 Gauge Fabric, Deduct</i>	-2.12	
			<i>For 6 Gauge Fabric, Add</i>	6.77	
			<i>For 1" Mesh Fabric, Add</i>	6.35	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2.54	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.27	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.69	
			<i>For Aluminum Coated, Add</i>	3.38	
32 31	13 13-0190	LF	10' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	21.09	5.26
			<i>For 13 Gauge Fabric, Deduct</i>	-4.74	
			<i>For 11 Gauge Fabric, Deduct</i>	-2.63	
			<i>For 6 Gauge Fabric, Add</i>	8.42	
			<i>For 1" Mesh Fabric, Add</i>	7.90	
			<i>For 1-3/4" Mesh Fabric, Add</i>	3.16	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.58	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.11	
			<i>For Aluminum Coated, Add</i>	4.21	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0191 LF 12' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	23.00	5.74
For 13 Gauge Fabric, Deduct	-5.18	
For 11 Gauge Fabric, Deduct	-2.88	
For 6 Gauge Fabric, Add	9.22	
For 1" Mesh Fabric, Add	8.64	
For 1-3/4" Mesh Fabric, Add	3.46	
For 2-1/8" Mesh Fabric, Deduct	-1.73	
For 2-3/8" Mesh Fabric, Deduct	-2.30	
For Aluminum Coated, Add	4.61	
32 31 13 13-0192 LF 14' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	26.08	6.69
For 13 Gauge Fabric, Deduct	-5.71	
For 11 Gauge Fabric, Deduct	-3.17	
For 6 Gauge Fabric, Add	10.14	
For 1" Mesh Fabric, Add	9.51	
For 1-3/4" Mesh Fabric, Add	3.80	
For 2-1/8" Mesh Fabric, Deduct	-1.90	
For 2-3/8" Mesh Fabric, Deduct	-2.54	
For Aluminum Coated, Add	5.07	
32 31 13 13-0193 LF 16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	29.20	7.66
For 13 Gauge Fabric, Deduct	-6.25	
For 11 Gauge Fabric, Deduct	-3.47	
For 6 Gauge Fabric, Add	11.11	
For 1" Mesh Fabric, Add	10.42	
For 1-3/4" Mesh Fabric, Add	4.17	
For 2-1/8" Mesh Fabric, Deduct	-2.08	
For 2-3/8" Mesh Fabric, Deduct	-2.78	
For Aluminum Coated, Add	5.56	
32 31 13 13-0194 SF >16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	1.82	0.45
For 13 Gauge Fabric, Deduct	-0.39	
For 11 Gauge Fabric, Deduct	-0.22	
For 6 Gauge Fabric, Add	0.70	
For 1" Mesh Fabric, Add	0.65	
For 1-3/4" Mesh Fabric, Add	0.26	
For 2-1/8" Mesh Fabric, Deduct	-0.13	
For 2-3/8" Mesh Fabric, Deduct	-0.17	
For Aluminum Coated, Add	0.35	
32 31 13 13-0195 Fabric, Aluminized Steel Chain Link (32 31 13 13-0170)		
32 31 13 13-0196 LF 3' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	8.55	1.92
For 6 Gauge Fabric, Add	1.86	
For 1" Mesh Fabric, Add	2.45	
32 31 13 13-0197 LF 3-6" Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	9.40	2.16
For 6 Gauge Fabric, Add	2.17	
For 1" Mesh Fabric, Add	2.85	
32 31 13 13-0198 LF 4' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	10.28	2.39
For 6 Gauge Fabric, Add	2.48	
For 1" Mesh Fabric, Add	3.26	
32 31 13 13-0199 LF 5' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	11.53	2.87
For 6 Gauge Fabric, Add	3.10	
For 1" Mesh Fabric, Add	4.06	
32 31 13 13-0200 LF 6' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	12.83	3.35
For 6 Gauge Fabric, Add	3.70	
For 1" Mesh Fabric, Add	4.86	
32 31 13 13-0201 LF 7' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	14.24	3.82
For 6 Gauge Fabric, Add	4.33	
For 1" Mesh Fabric, Add	5.68	
32 31 13 13-0202 LF 8' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	15.74	4.79
For 6 Gauge Fabric, Add	4.94	
For 1" Mesh Fabric, Add	6.49	
32 31 13 13-0203 LF 10' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	18.29	5.26
For 6 Gauge Fabric, Add	6.18	
For 1" Mesh Fabric, Add	8.12	
32 31 13 13-0204 LF 12' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	20.75	5.74
For 6 Gauge Fabric, Add	7.42	
For 1" Mesh Fabric, Add	9.73	
32 31 13 13-0205 Fabric, All Aluminum Chain Link (32 31 13 13-0170)		
32 31 13 13-0206 LF 3' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	12.31	1.92
For 6 Gauge Fabric, Add	4.87	
For 1" Mesh Fabric, Add	6.39	
32 31 13 13-0207 LF 3-6" Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	13.80	2.16
For 6 Gauge Fabric, Add	5.69	
For 1" Mesh Fabric, Add	7.47	
32 31 13 13-0208 LF 4' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	15.30	2.39
For 6 Gauge Fabric, Add	6.50	
For 1" Mesh Fabric, Add	8.53	
32 31 13 13-0209 LF 5' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	17.81	2.87
For 6 Gauge Fabric, Add	8.12	
For 1" Mesh Fabric, Add	10.66	
32 31 13 13-0210 LF 6' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	20.38	3.35
For 6 Gauge Fabric, Add	9.74	
For 1" Mesh Fabric, Add	12.79	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0211	LF		7' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	23.04 11.37 14.92	3.82
32 31 13 13-0212	LF		8' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	25.80 12.99 17.05	4.79
32 31 13 13-0213	LF		10' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	30.86 16.24 21.32	5.26
32 31 13 13-0214	LF		12' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	35.84 19.49 25.58	5.74
32 31 13 13-0215			Fence Inserts <small>(32 31 13 13-0170)</small> Note: For use with new or existing chain link fence, per lf of fence.		
32 31 13 13-0216			Vinyl Plastic Fence Inserts <small>(32 31 13 13-0215)</small> Note: Assorted colors.		
32 31 13 13-0217	LF		3' High Fence, Vinyl Plastic Fence Insert.....	6.29	
32 31 13 13-0218	LF		3-1/2' High Fence, Vinyl Plastic Fence Insert.....	7.21	
32 31 13 13-0219	LF		4' High Fence, Vinyl Plastic Fence Insert.....	7.97	
32 31 13 13-0220	LF		5' High Fence, Vinyl Plastic Fence Insert.....	9.98	
32 31 13 13-0221	LF		6' High Fence, Vinyl Plastic Fence Insert.....	11.95	
32 31 13 13-0222	LF		7' High Fence, Vinyl Plastic Fence Insert.....	13.97	
32 31 13 13-0223	LF		8' High Fence, Vinyl Plastic Fence Insert.....	15.92	
32 31 13 13-0224	LF		10' High Fence, Vinyl Plastic Fence Insert.....	18.98	
32 31 13 13-0225			Aluminum Fence Inserts <small>(32 31 13 13-0215)</small> Note: Assorted colors.		
32 31 13 13-0226	LF		3' High Fence, Aluminum Fence Insert.....	18.37	
32 31 13 13-0227	LF		3-1/2' High Fence, Aluminum Fence Insert.....	20.21	
32 31 13 13-0228	LF		4' High Fence, Aluminum Fence Insert.....	23.24	
32 31 13 13-0229	LF		5' High Fence, Aluminum Fence Insert.....	29.10	
32 31 13 13-0230	LF		6' High Fence, Aluminum Fence Insert.....	34.90	
32 31 13 13-0231	LF		7' High Fence, Aluminum Fence Insert.....	38.24	
32 31 13 13-0232	LF		8' High Fence, Aluminum Fence Insert.....	46.51	
32 31 13 13-0233	LF		10' High Fence, Aluminum Fence Insert.....	57.44	
32 31 13 13-0234			Redwood Fence Inserts <small>(32 31 13 13-0215)</small>		
32 31 13 13-0235	LF		4' High Fence, Redwood Fence Insert.....	9.68	
32 31 13 13-0236	LF		5' High Fence, Redwood Fence Insert.....	12.27	
32 31 13 13-0237	LF		6' High Fence, Redwood Fence Insert.....	14.74	
32 31 13 13-0238	LF		7' High Fence, Redwood Fence Insert.....	17.16	
32 31 13 13-0239	LF		8' High Fence, Redwood Fence Insert.....	19.64	
32 31 13 13-0240			Diagonal Flexible Polyethylene Inserts <small>(32 31 13 13-0215)</small>		
32 31 13 13-0241	SF		Diagonal Polyethylene Fence Weave.....	2.52	
32 31 13 13-0242			Hedge Link Fence Inserts <small>(32 31 13 13-0215)</small>		
32 31 13 13-0243	LF		3' High Fence, Hedge Link Fence Insert.....	12.88	
32 31 13 13-0244	LF		3-1/2' High Fence, Hedge Link Fence Insert.....	14.66	
32 31 13 13-0245	LF		4' High Fence, Hedge Link Fence Insert.....	17.33	
32 31 13 13-0246	LF		5' High Fence, Hedge Link Fence Insert.....	21.43	
32 31 13 13-0247	LF		6' High Fence, Hedge Link Fence Insert.....	24.64	
32 31 13 13-0248	LF		7' High Fence, Hedge Link Fence Insert.....	30.84	
32 31 13 13-0249	LF		8' High Fence, Hedge Link Fence Insert.....	35.04	
32 31 13 13-0250	LF		10' High Fence, Hedge Link Fence Insert.....	41.72	
32 31 13 13-0251	LF		12' High Fence, Hedge Link Fence Insert.....	47.83	
32 31 13 13-0252			Fence Windscreen Fabric <small>(32 31 13 13-0170)</small> Note: Includes plastic wire clips.		
32 31 13 13-0253	SF		Vinyl Coated Polyester Windscreen For Fence, 7 Oz Per SY..... <i>For Sewn Boxed Vent (Each), Add</i> <i>For Welded Boxed Vent (Each), Add</i> <i>For 4' x 4' One Color Logo (Each), Add</i>	1.14 15.52 7.76 323.30	0.44
32 31 13 13-0254			Non-Climbable Fabric, Galvanized Chain Link <small>(32 31 13 13-0170)</small>		
32 31 13 13-0255	LF		3' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh..... <i>For 11 Gauge, Deduct</i> <i>For 10 Gauge, Deduct</i> <i>For 7 Gauge, Add</i> <i>For 6 Gauge, Add</i> <i>For 1/2" Mesh Fabric, Deduct</i> <i>For 5/8" Mesh Fabric, Deduct</i> <i>For 3/4" Mesh Fabric, Deduct</i>	19.95 -2.75 -1.10 1.65 3.84 -0.69 -1.51 -2.20	1.92

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0256 LF 3'-6" Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	22.70	2.16
For 11 Gauge, Deduct	-3.20	
For 10 Gauge, Deduct	-1.28	
For 7 Gauge, Add	1.92	
For 6 Gauge, Add	4.48	
For 1/2" Mesh Fabric, Deduct	-0.80	
For 5/8" Mesh Fabric, Deduct	-1.76	
For 3/4" Mesh Fabric, Deduct	-2.56	
32 31 13 13-0257 LF 4' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	25.50	2.39
For 11 Gauge, Deduct	-3.66	
For 10 Gauge, Deduct	-1.47	
For 7 Gauge, Add	2.20	
For 6 Gauge, Add	5.13	
For 1/2" Mesh Fabric, Deduct	-0.92	
For 5/8" Mesh Fabric, Deduct	-2.02	
For 3/4" Mesh Fabric, Deduct	-2.93	
32 31 13 13-0258 LF 5' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	30.55	2.87
For 11 Gauge, Deduct	-4.58	
For 10 Gauge, Deduct	-1.83	
For 7 Gauge, Add	2.75	
For 6 Gauge, Add	6.41	
For 1/2" Mesh Fabric, Deduct	-1.14	
For 5/8" Mesh Fabric, Deduct	-2.52	
For 3/4" Mesh Fabric, Deduct	-3.66	
32 31 13 13-0259 LF 6' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	35.65	3.35
For 11 Gauge, Deduct	-5.49	
For 10 Gauge, Deduct	-2.20	
For 7 Gauge, Add	3.29	
For 6 Gauge, Add	7.69	
For 1/2" Mesh Fabric, Deduct	-1.37	
For 5/8" Mesh Fabric, Deduct	-3.02	
For 3/4" Mesh Fabric, Deduct	-4.39	
32 31 13 13-0260 LF 7' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	40.86	3.82
For 11 Gauge, Deduct	-6.41	
For 10 Gauge, Deduct	-2.56	
For 7 Gauge, Add	3.84	
For 6 Gauge, Add	8.97	
For 1/2" Mesh Fabric, Deduct	-1.60	
For 5/8" Mesh Fabric, Deduct	-3.52	
For 3/4" Mesh Fabric, Deduct	-5.12	
32 31 13 13-0261 LF 8' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	46.17	4.79
For 11 Gauge, Deduct	-7.32	
For 10 Gauge, Deduct	-2.93	
For 7 Gauge, Add	4.39	
For 6 Gauge, Add	10.25	
For 1/2" Mesh Fabric, Deduct	-1.83	
For 5/8" Mesh Fabric, Deduct	-4.03	
For 3/4" Mesh Fabric, Deduct	-5.86	
32 31 13 13-0262 LF 9' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	50.80	5.03
For 11 Gauge, Deduct	-8.15	
For 10 Gauge, Deduct	-3.26	
For 7 Gauge, Add	4.89	
For 6 Gauge, Add	11.41	
For 1/2" Mesh Fabric, Deduct	-2.04	
For 5/8" Mesh Fabric, Deduct	-4.48	
For 3/4" Mesh Fabric, Deduct	-6.52	
32 31 13 13-0263 LF 10' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	55.45	5.26
For 11 Gauge, Deduct	-8.98	
For 10 Gauge, Deduct	-3.59	
For 7 Gauge, Add	5.39	
For 6 Gauge, Add	12.57	
For 1/2" Mesh Fabric, Deduct	-2.24	
For 5/8" Mesh Fabric, Deduct	-4.94	
For 3/4" Mesh Fabric, Deduct	-7.18	
32 31 13 13-0264 LF 12' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	60.14	5.74
For 11 Gauge, Deduct	-9.73	
For 10 Gauge, Deduct	-3.89	
For 7 Gauge, Add	5.84	
For 6 Gauge, Add	13.62	
For 1/2" Mesh Fabric, Deduct	-2.43	
For 5/8" Mesh Fabric, Deduct	-5.35	
For 3/4" Mesh Fabric, Deduct	-7.79	

32 31 13 13-0265**Gates** (32 31 13 13)

Note: Posts exclude drilling or augering in soil or rock. For barbed wire attached directly to posts and gates, select gates and posts sizes for full finished height of gate above grade (top rail to be at lower height, includes barb wire at top area where mesh would be). See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.

32 31 13 13-0266**Galvanized Steel Without Barbed Wire** (32 31 13 13-0265)

Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter for > 6' To 12' wide, 6-5/8" diameter for >12' To 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.

32 31 13 13-0267**4' Fence Height** (32 31 13 13-0266)



		Exterior Improvements	32
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0268 EA 3' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	209.42	18.79
For Gate With Single Barb Wire Arm, Add	16.58	
For Gate With Double Barb Wire Arm, Add	24.11	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-28.25	
For Aluminized Steel Gate And Post, Add	72.33	
For Powder Coated Gate And Post, Add	39.18	
32 31 13 13-0269 EA 4' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	259.65	19.57
For Gate With Single Barb Wire Arm, Add	22.10	
For Gate With Double Barb Wire Arm, Add	32.15	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-37.67	
For Aluminized Steel Gate And Post, Add	96.44	
For Powder Coated Gate And Post, Add	52.24	
32 31 13 13-0270 EA 5' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	305.23	20.83
For Gate With Single Barb Wire Arm, Add	26.68	
For Gate With Double Barb Wire Arm, Add	38.81	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-45.48	
For Aluminized Steel Gate And Post, Add	116.44	
For Powder Coated Gate And Post, Add	63.07	
32 31 13 13-0271 EA 6' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	359.42	25.06
For Gate With Single Barb Wire Arm, Add	31.27	
For Gate With Double Barb Wire Arm, Add	45.48	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.29	
For Aluminized Steel Gate And Post, Add	136.43	
For Powder Coated Gate And Post, Add	73.90	
32 31 13 13-0272 EA 7' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	413.61	29.21
For Gate With Single Barb Wire Arm, Add	35.85	
For Gate With Double Barb Wire Arm, Add	52.14	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-61.10	
For Aluminized Steel Gate And Post, Add	156.43	
For Powder Coated Gate And Post, Add	84.73	
32 31 13 13-0273 EA 8' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	469.50	33.36
For Gate With Single Barb Wire Arm, Add	40.62	
For Gate With Double Barb Wire Arm, Add	59.08	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-69.24	
For Aluminized Steel Gate And Post, Add	177.24	
For Powder Coated Gate And Post, Add	96.01	
32 31 13 13-0274 EA 9' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	523.69	37.59
For Gate With Single Barb Wire Arm, Add	45.20	
For Gate With Double Barb Wire Arm, Add	65.75	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.05	
For Aluminized Steel Gate And Post, Add	197.24	
For Powder Coated Gate And Post, Add	106.84	
32 31 13 13-0275 EA 10' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	578.61	41.74
For Gate With Single Barb Wire Arm, Add	49.86	
For Gate With Double Barb Wire Arm, Add	72.53	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-85.00	
For Aluminized Steel Gate And Post, Add	217.59	
For Powder Coated Gate And Post, Add	117.86	
32 31 13 13-0276 EA 10' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	728.07	41.74
For Gate With Single Barb Wire Arm, Add	66.30	
For Gate With Double Barb Wire Arm, Add	96.44	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-113.02	
For Aluminized Steel Gate And Post, Add	289.33	
For Powder Coated Gate And Post, Add	156.72	
32 31 13 13-0277 EA 12' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	857.58	44.72
For Gate With Single Barb Wire Arm, Add	79.57	
For Gate With Double Barb Wire Arm, Add	115.73	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-135.62	
For Aluminized Steel Gate And Post, Add	347.20	
For Powder Coated Gate And Post, Add	188.07	
32 31 13 13-0278 EA 14' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	988.46	48.17
For Gate With Single Barb Wire Arm, Add	92.83	
For Gate With Double Barb Wire Arm, Add	135.02	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-158.23	
For Aluminized Steel Gate And Post, Add	405.06	
For Powder Coated Gate And Post, Add	219.41	
32 31 13 13-0279 EA 16' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,121.07	52.16
For Gate With Single Barb Wire Arm, Add	106.09	
For Gate With Double Barb Wire Arm, Add	154.31	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-180.83	
For Aluminized Steel Gate And Post, Add	462.93	
For Powder Coated Gate And Post, Add	250.75	
32 31 13 13-0280 EA 18' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,279.23	64.65
For Gate With Single Barb Wire Arm, Add	119.35	
For Gate With Double Barb Wire Arm, Add	173.60	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-203.44	
For Aluminized Steel Gate And Post, Add	520.80	
For Powder Coated Gate And Post, Add	282.10	
32 31 13 13-0281 EA 20' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,413.66	69.29
For Gate With Single Barb Wire Arm, Add	132.61	
For Gate With Double Barb Wire Arm, Add	192.89	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-226.04	
For Aluminized Steel Gate And Post, Add	578.66	
For Powder Coated Gate And Post, Add	313.44	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0282 EA 22' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,547.28	74.66
For Gate With Single Barb Wire Arm, Add	145.55	
For Gate With Double Barb Wire Arm, Add	211.71	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-248.09	
For Aluminized Steel Gate And Post, Add	635.12	
For Powder Coated Gate And Post, Add	344.02	
32 31 13 13-0283 EA 24' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,683.57	80.85
For Gate With Single Barb Wire Arm, Add	158.49	
For Gate With Double Barb Wire Arm, Add	230.52	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-270.15	
For Aluminized Steel Gate And Post, Add	691.57	
For Powder Coated Gate And Post, Add	374.60	
32 31 13 13-0284 EA 26' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,823.26	88.23
For Gate With Single Barb Wire Arm, Add	171.42	
For Gate With Double Barb Wire Arm, Add	249.34	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-292.20	
For Aluminized Steel Gate And Post, Add	748.03	
For Powder Coated Gate And Post, Add	405.18	
32 31 13 13-0285 EA 28' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,923.25	97.06
For Gate With Single Barb Wire Arm, Add	179.51	
For Gate With Double Barb Wire Arm, Add	261.10	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-305.98	
For Aluminized Steel Gate And Post, Add	783.31	
For Powder Coated Gate And Post, Add	424.29	
32 31 13 13-0286 EA 30' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,132.05	107.81
For Gate With Single Barb Wire Arm, Add	198.92	
For Gate With Double Barb Wire Arm, Add	289.33	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-339.06	
For Aluminized Steel Gate And Post, Add	867.99	
For Powder Coated Gate And Post, Add	470.16	
32 31 13 13-0287 5' Fence Height <small>(32 31 13 13-0266)</small>		
32 31 13 13-0288 EA 3' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	248.87	20.83
For Gate With Single Barb Wire Arm, Add	20.48	
For Gate With Double Barb Wire Arm, Add	29.80	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-34.92	
For Aluminized Steel Gate And Post, Add	89.39	
For Powder Coated Gate And Post, Add	48.42	
32 31 13 13-0289 EA 4' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	310.13	20.83
For Gate With Single Barb Wire Arm, Add	27.22	
For Gate With Double Barb Wire Arm, Add	39.60	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-46.40	
For Aluminized Steel Gate And Post, Add	118.79	
For Powder Coated Gate And Post, Add	64.34	
32 31 13 13-0290 EA 5' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	360.62	22.16
For Gate With Single Barb Wire Arm, Add	32.34	
For Gate With Double Barb Wire Arm, Add	47.05	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-55.13	
For Aluminized Steel Gate And Post, Add	141.14	
For Powder Coated Gate And Post, Add	76.45	
32 31 13 13-0291 EA 6' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	422.92	26.62
For Gate With Single Barb Wire Arm, Add	37.73	
For Gate With Double Barb Wire Arm, Add	54.89	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-64.32	
For Aluminized Steel Gate And Post, Add	164.66	
For Powder Coated Gate And Post, Add	89.19	
32 31 13 13-0292 EA 7' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	480.34	31.01
For Gate With Single Barb Wire Arm, Add	42.59	
For Gate With Double Barb Wire Arm, Add	61.94	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-72.59	
For Aluminized Steel Gate And Post, Add	185.83	
For Powder Coated Gate And Post, Add	100.66	
32 31 13 13-0293 EA 8' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	543.44	35.71
For Gate With Single Barb Wire Arm, Add	47.98	
For Gate With Double Barb Wire Arm, Add	69.78	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-81.78	
For Aluminized Steel Gate And Post, Add	209.35	
For Powder Coated Gate And Post, Add	113.40	
32 31 13 13-0294 EA 9' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	603.31	40.18
For Gate With Single Barb Wire Arm, Add	53.10	
For Gate With Double Barb Wire Arm, Add	77.23	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-90.51	
For Aluminized Steel Gate And Post, Add	231.70	
For Powder Coated Gate And Post, Add	125.50	
32 31 13 13-0295 EA 10' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	663.18	44.56
For Gate With Single Barb Wire Arm, Add	58.22	
For Gate With Double Barb Wire Arm, Add	84.68	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-99.24	
For Aluminized Steel Gate And Post, Add	254.04	
For Powder Coated Gate And Post, Add	137.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0296 EA 10' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	881.10	44.72
For Gate With Single Barb Wire Arm, Add	82.15	
For Gate With Double Barb Wire Arm, Add	119.50	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-140.03	
For Aluminized Steel Gate And Post, Add	358.49	
For Powder Coated Gate And Post, Add	194.18	
32 31 13 13-0297 EA 12' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,041.39	48.17
For Gate With Single Barb Wire Arm, Add	98.65	
For Gate With Double Barb Wire Arm, Add	143.49	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-168.15	
For Aluminized Steel Gate And Post, Add	430.47	
For Powder Coated Gate And Post, Add	233.17	
32 31 13 13-0298 EA 14' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,203.40	52.16
For Gate With Single Barb Wire Arm, Add	115.14	
For Gate With Double Barb Wire Arm, Add	167.48	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-196.27	
For Aluminized Steel Gate And Post, Add	502.45	
For Powder Coated Gate And Post, Add	272.16	
32 31 13 13-0299 EA 16' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,390.97	64.65
For Gate With Single Barb Wire Arm, Add	131.64	
For Gate With Double Barb Wire Arm, Add	191.48	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-224.39	
For Aluminized Steel Gate And Post, Add	574.43	
For Powder Coated Gate And Post, Add	311.15	
32 31 13 13-0300 EA 18' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,551.85	69.29
For Gate With Single Barb Wire Arm, Add	147.81	
For Gate With Double Barb Wire Arm, Add	215.00	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-251.95	
For Aluminized Steel Gate And Post, Add	645.00	
For Powder Coated Gate And Post, Add	349.37	
32 31 13 13-0301 EA 20' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,720.76	74.66
For Gate With Single Barb Wire Arm, Add	164.63	
For Gate With Double Barb Wire Arm, Add	239.46	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-280.62	
For Aluminized Steel Gate And Post, Add	718.39	
For Powder Coated Gate And Post, Add	389.13	
32 31 13 13-0302 EA 22' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,889.39	80.85
For Gate With Single Barb Wire Arm, Add	181.13	
For Gate With Double Barb Wire Arm, Add	263.46	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-308.74	
For Aluminized Steel Gate And Post, Add	790.37	
For Powder Coated Gate And Post, Add	428.12	
32 31 13 13-0303 EA 24' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,058.49	88.23
For Gate With Single Barb Wire Arm, Add	197.30	
For Gate With Double Barb Wire Arm, Add	286.98	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-336.30	
For Aluminized Steel Gate And Post, Add	860.94	
For Powder Coated Gate And Post, Add	466.34	
32 31 13 13-0304 EA 26' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,237.87	97.06
For Gate With Single Barb Wire Arm, Add	214.12	
For Gate With Double Barb Wire Arm, Add	311.44	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-364.97	
For Aluminized Steel Gate And Post, Add	934.33	
For Powder Coated Gate And Post, Add	506.10	
32 31 13 13-0305 EA 28' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,418.35	107.81
For Gate With Single Barb Wire Arm, Add	230.41	
For Gate With Double Barb Wire Arm, Add	335.14	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-392.74	
For Aluminized Steel Gate And Post, Add	1,005.42	
For Powder Coated Gate And Post, Add	544.60	
32 31 13 13-0306 EA 30' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,604.74	121.28
For Gate With Single Barb Wire Arm, Add	246.46	
For Gate With Double Barb Wire Arm, Add	358.49	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-420.10	
For Aluminized Steel Gate And Post, Add	1,075.46	
For Powder Coated Gate And Post, Add	582.54	
32 31 13 13-0307 6' Fence Height <small>(32 31 13 13-0266)</small>		
32 31 13 13-0308 EA 3' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	266.83	22.32
For Gate With Single Barb Wire Arm, Add	21.97	
For Gate With Double Barb Wire Arm, Add	31.95	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-37.44	
For Aluminized Steel Gate And Post, Add	95.86	
For Powder Coated Gate And Post, Add	51.92	
32 31 13 13-0309 EA 4' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	332.99	22.32
For Gate With Single Barb Wire Arm, Add	29.24	
For Gate With Double Barb Wire Arm, Add	42.54	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-49.85	
For Aluminized Steel Gate And Post, Add	127.61	
For Powder Coated Gate And Post, Add	69.12	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0310 EA 5' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	387.74	23.73
For Gate With Single Barb Wire Arm, Add	34.81	
For Gate With Double Barb Wire Arm, Add	50.63	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.34	
For Aluminized Steel Gate And Post, Add	151.90	
For Powder Coated Gate And Post, Add	82.28	
32 31 13 13-0311 EA 6' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	451.24	28.66
For Gate With Single Barb Wire Arm, Add	40.16	
For Gate With Double Barb Wire Arm, Add	58.41	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-68.45	
For Aluminized Steel Gate And Post, Add	175.24	
For Powder Coated Gate And Post, Add	94.92	
32 31 13 13-0312 EA 7' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	517.57	33.67
For Gate With Single Barb Wire Arm, Add	45.82	
For Gate With Double Barb Wire Arm, Add	66.65	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-78.10	
For Aluminized Steel Gate And Post, Add	199.94	
For Powder Coated Gate And Post, Add	108.30	
32 31 13 13-0313 EA 8' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	580.67	38.37
For Gate With Single Barb Wire Arm, Add	51.21	
For Gate With Double Barb Wire Arm, Add	74.49	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-87.29	
For Aluminized Steel Gate And Post, Add	223.47	
For Powder Coated Gate And Post, Add	121.05	
32 31 13 13-0314 EA 9' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	644.57	43.31
For Gate With Single Barb Wire Arm, Add	56.60	
For Gate With Double Barb Wire Arm, Add	82.33	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-96.48	
For Aluminized Steel Gate And Post, Add	246.99	
For Powder Coated Gate And Post, Add	133.79	
32 31 13 13-0315 EA 10' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	686.39	48.25
For Gate With Single Barb Wire Arm, Add	59.57	
For Gate With Double Barb Wire Arm, Add	86.64	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-101.54	
For Aluminized Steel Gate And Post, Add	259.93	
For Powder Coated Gate And Post, Add	140.80	
32 31 13 13-0316 EA 10' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	941.42	48.17
For Gate With Single Barb Wire Arm, Add	87.65	
For Gate With Double Barb Wire Arm, Add	127.49	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-149.41	
For Aluminized Steel Gate And Post, Add	382.48	
For Powder Coated Gate And Post, Add	207.18	
32 31 13 13-0317 EA 12' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,112.25	52.16
For Gate With Single Barb Wire Arm, Add	105.12	
For Gate With Double Barb Wire Arm, Add	152.90	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-179.18	
For Aluminized Steel Gate And Post, Add	458.70	
For Powder Coated Gate And Post, Add	248.46	
32 31 13 13-0318 EA 14' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,325.45	69.29
For Gate With Single Barb Wire Arm, Add	122.91	
For Gate With Double Barb Wire Arm, Add	178.77	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-209.50	
For Aluminized Steel Gate And Post, Add	536.32	
For Powder Coated Gate And Post, Add	290.51	
32 31 13 13-0319 EA 16' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,500.24	74.66
For Gate With Single Barb Wire Arm, Add	140.37	
For Gate With Double Barb Wire Arm, Add	204.18	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-239.27	
For Aluminized Steel Gate And Post, Add	612.54	
For Powder Coated Gate And Post, Add	331.79	
32 31 13 13-0320 EA 18' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,680.63	80.85
For Gate With Single Barb Wire Arm, Add	158.16	
For Gate With Double Barb Wire Arm, Add	230.05	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-269.60	
For Aluminized Steel Gate And Post, Add	690.16	
For Powder Coated Gate And Post, Add	373.84	
32 31 13 13-0321 EA 20' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,864.43	88.23
For Gate With Single Barb Wire Arm, Add	175.95	
For Gate With Double Barb Wire Arm, Add	255.93	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-299.92	
For Aluminized Steel Gate And Post, Add	767.79	
For Powder Coated Gate And Post, Add	415.89	
32 31 13 13-0322 EA 22' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,049.69	97.06
For Gate With Single Barb Wire Arm, Add	193.42	
For Gate With Double Barb Wire Arm, Add	281.33	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-329.69	
For Aluminized Steel Gate And Post, Add	844.00	
For Powder Coated Gate And Post, Add	457.17	
32 31 13 13-0323 EA 24' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,242.31	107.81
For Gate With Single Barb Wire Arm, Add	211.04	
For Gate With Double Barb Wire Arm, Add	306.97	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-359.73	
For Aluminized Steel Gate And Post, Add	920.92	
For Powder Coated Gate And Post, Add	498.83	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0324	EA	26' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i>	2,441.26 228.48 332.33 -389.45 996.99 540.04	121.28
32 31	13 13-0325	EA	28' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i>	2,653.83 246.14 358.02 -419.55 1,074.05 581.78	138.57
32 31	13 13-0326	EA	30' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i>	2,884.05 263.83 383.75 -449.71 1,151.26 623.60	161.70
32 31 13 13-0327 7' Fence Height <small>(32 31 13 13-0266)</small>					
32 31	13 13-0328	EA	3' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i>	280.58 22.91 33.32 -39.05 99.97 54.15	24.04
32 31	13 13-0329	EA	4' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i>	349.18 30.46 44.30 -51.92 132.90 71.99	24.04
32 31	13 13-0330	EA	5' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i>	408.43 36.57 53.19 -62.34 159.58 86.44	25.29
32 31	13 13-0331	EA	6' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i>	500.34 44.87 65.27 -76.49 195.81 106.06	30.78
32 31	13 13-0332	EA	7' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i>	591.49 53.18 77.35 -90.64 232.04 125.69	36.02
32 31	13 13-0333	EA	8' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i>	683.41 61.48 89.42 -104.79 268.27 145.31	41.43
32 31	13 13-0334	EA	9' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i>	774.56 69.78 101.50 -118.95 304.50 164.94	46.68
32 31	13 13-0335	EA	10' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i>	852.88 76.59 111.40 -130.55 334.20 181.03	52.16
32 31	13 13-0336	EA	10' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i>	1,070.55 100.53 146.23 -171.36 438.68 237.62	52.16
32 31	13 13-0337	EA	12' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i>	1,224.32 111.78 162.59 -190.54 487.78 264.21	69.29

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0338	EA	14' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	1,409.69	74.66
		<i>For Gate With Single Barb Wire Arm, Add</i>	130.41	
		<i>For Gate With Double Barb Wire Arm, Add</i>	189.69	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-222.29	
		<i>For Aluminized Steel Gate And Post, Add</i>	569.07	
		<i>For Powder Coated Gate And Post, Add</i>	308.25	
32 31 13 13-0339	EA	16' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	1,583.59	80.85
		<i>For Gate With Single Barb Wire Arm, Add</i>	147.49	
		<i>For Gate With Double Barb Wire Arm, Add</i>	214.53	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-251.40	
		<i>For Aluminized Steel Gate And Post, Add</i>	643.58	
		<i>For Powder Coated Gate And Post, Add</i>	348.61	
32 31 13 13-0340	EA	18' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	1,776.21	88.23
		<i>For Gate With Single Barb Wire Arm, Add</i>	166.25	
		<i>For Gate With Double Barb Wire Arm, Add</i>	241.81	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-283.38	
		<i>For Aluminized Steel Gate And Post, Add</i>	725.44	
		<i>For Powder Coated Gate And Post, Add</i>	392.95	
32 31 13 13-0341	EA	20' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	1,970.30	97.06
		<i>For Gate With Single Barb Wire Arm, Add</i>	184.68	
		<i>For Gate With Double Barb Wire Arm, Add</i>	268.63	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-314.80	
		<i>For Aluminized Steel Gate And Post, Add</i>	805.90	
		<i>For Powder Coated Gate And Post, Add</i>	436.53	
32 31 13 13-0342	EA	22' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,170.28	107.81
		<i>For Gate With Single Barb Wire Arm, Add</i>	203.12	
		<i>For Gate With Double Barb Wire Arm, Add</i>	295.45	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-346.23	
		<i>For Aluminized Steel Gate And Post, Add</i>	886.34	
		<i>For Powder Coated Gate And Post, Add</i>	480.10	
32 31 13 13-0343	EA	24' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,378.34	121.28
		<i>For Gate With Single Barb Wire Arm, Add</i>	221.56	
		<i>For Gate With Double Barb Wire Arm, Add</i>	322.26	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-377.65	
		<i>For Aluminized Steel Gate And Post, Add</i>	966.79	
		<i>For Powder Coated Gate And Post, Add</i>	523.68	
32 31 13 13-0344	EA	26' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,597.97	138.57
		<i>For Gate With Single Barb Wire Arm, Add</i>	239.99	
		<i>For Gate With Double Barb Wire Arm, Add</i>	349.08	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-409.08	
		<i>For Aluminized Steel Gate And Post, Add</i>	1,047.24	
		<i>For Powder Coated Gate And Post, Add</i>	567.26	
32 31 13 13-0345	EA	28' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,834.95	161.70
		<i>For Gate With Single Barb Wire Arm, Add</i>	258.43	
		<i>For Gate With Double Barb Wire Arm, Add</i>	375.90	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-440.50	
		<i>For Aluminized Steel Gate And Post, Add</i>	1,127.69	
		<i>For Powder Coated Gate And Post, Add</i>	610.83	
32 31 13 13-0346	EA	30' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,099.67	194.02
		<i>For Gate With Single Barb Wire Arm, Add</i>	276.86	
		<i>For Gate With Double Barb Wire Arm, Add</i>	402.71	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-471.93	
		<i>For Aluminized Steel Gate And Post, Add</i>	1,208.14	
		<i>For Powder Coated Gate And Post, Add</i>	654.41	
32 31 13 13-0347		8' Fence Height <small>(32 31 13 13-0265)</small>		
32 31 13 13-0348	EA	3' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	327.06	26.08
		<i>For Gate With Single Barb Wire Arm, Add</i>	27.36	
		<i>For Gate With Double Barb Wire Arm, Add</i>	39.80	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-46.64	
		<i>For Aluminized Steel Gate And Post, Add</i>	119.40	
		<i>For Powder Coated Gate And Post, Add</i>	64.67	
32 31 13 13-0349	EA	4' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	409.98	26.08
		<i>For Gate With Single Barb Wire Arm, Add</i>	36.48	
		<i>For Gate With Double Barb Wire Arm, Add</i>	53.07	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-62.19	
		<i>For Aluminized Steel Gate And Post, Add</i>	159.20	
		<i>For Powder Coated Gate And Post, Add</i>	86.23	
32 31 13 13-0350	EA	5' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	477.39	29.05
		<i>For Gate With Single Barb Wire Arm, Add</i>	42.91	
		<i>For Gate With Double Barb Wire Arm, Add</i>	62.41	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-73.14	
		<i>For Aluminized Steel Gate And Post, Add</i>	187.23	
		<i>For Powder Coated Gate And Post, Add</i>	101.42	
32 31 13 13-0351	EA	6' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	547.15	32.89
		<i>For Gate With Single Barb Wire Arm, Add</i>	49.33	
		<i>For Gate With Double Barb Wire Arm, Add</i>	71.76	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-84.09	
		<i>For Aluminized Steel Gate And Post, Add</i>	215.27	
		<i>For Powder Coated Gate And Post, Add</i>	116.60	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13	13-0352	EA 7' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	625.93 55.76 81.10 -95.04 243.31 131.79	39.63
32 31	13	13-0353	EA 8' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	703.93 62.18 90.45 -106.00 271.35 146.98	46.13
32 31	13	13-0354	EA 9' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	782.70 68.61 99.80 -116.95 299.39 162.17	52.95
32 31	13	13-0355	EA 10' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	861.47 75.04 109.14 -127.90 327.43 177.36	59.75
32 31	13	13-0356	EA 10' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	1,231.33 112.55 163.72 -191.85 491.15 266.04	69.29
32 31	13	13-0357	EA 12' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	1,444.37 134.23 195.24 -228.80 585.72 317.27	74.66
32 31	13	13-0358	EA 14' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	1,662.98 156.22 227.23 -266.29 681.69 369.25	80.85
32 31	13	13-0359	EA 16' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	1,890.89 178.86 260.16 -304.88 780.49 422.77	88.23
32 31	13	13-0360	EA 18' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	2,123.19 201.50 293.09 -343.47 879.28 476.28	97.06
32 31	13	13-0361	EA 20' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	2,358.46 223.82 325.56 -381.51 976.67 529.03	107.81
32 31	13	13-0362	EA 22' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	2,598.86 245.81 357.55 -419.00 1,072.64 581.01	121.28
32 31	13	13-0363	EA 24' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	2,856.72 268.46 390.48 -457.59 1,171.44 634.53	138.57
32 31	13	13-0364	EA 26' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	3,131.92 291.10 423.41 -496.19 1,270.23 688.04	161.70
32 31	13	13-0365	EA 28' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add	3,431.93 313.41 455.87 -534.23 1,367.62 740.79	194.02

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0366 EA 30' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	3,780.48	242.56
For Gate With Single Barb Wire Arm, Add	335.73	
For Gate With Double Barb Wire Arm, Add	488.33	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-572.27	
For Aluminized Steel Gate And Post, Add	1,465.00	
For Powder Coated Gate And Post, Add	793.54	
32 31 13 13-0367 10' Fence Height (32 31 13 13-0266)		
32 31 13 13-0368 EA 3' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	408.67	28.97
For Gate With Single Barb Wire Arm, Add	35.38	
For Gate With Double Barb Wire Arm, Add	51.47	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-60.31	
For Aluminized Steel Gate And Post, Add	154.40	
For Powder Coated Gate And Post, Add	83.63	
32 31 13 13-0369 EA 4' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	515.88	28.97
For Gate With Single Barb Wire Arm, Add	47.18	
For Gate With Double Barb Wire Arm, Add	68.62	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-80.41	
For Aluminized Steel Gate And Post, Add	205.86	
For Powder Coated Gate And Post, Add	111.51	
32 31 13 13-0370 EA 5' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	595.26	30.23
For Gate With Single Barb Wire Arm, Add	55.49	
For Gate With Double Barb Wire Arm, Add	80.71	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-94.58	
For Aluminized Steel Gate And Post, Add	242.12	
For Powder Coated Gate And Post, Add	131.15	
32 31 13 13-0371 EA 6' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	692.73	37.59
For Gate With Single Barb Wire Arm, Add	63.80	
For Gate With Double Barb Wire Arm, Add	92.79	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-108.74	
For Aluminized Steel Gate And Post, Add	278.38	
For Powder Coated Gate And Post, Add	150.79	
32 31 13 13-0372 EA 7' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	789.73	44.56
For Gate With Single Barb Wire Arm, Add	72.10	
For Gate With Double Barb Wire Arm, Add	104.88	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-122.90	
For Aluminized Steel Gate And Post, Add	314.63	
For Powder Coated Gate And Post, Add	170.42	
32 31 13 13-0373 EA 8' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	886.86	51.93
For Gate With Single Barb Wire Arm, Add	80.41	
For Gate With Double Barb Wire Arm, Add	116.96	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-137.07	
For Aluminized Steel Gate And Post, Add	350.89	
For Powder Coated Gate And Post, Add	190.07	
32 31 13 13-0374 EA 9' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	983.55	58.97
For Gate With Single Barb Wire Arm, Add	88.72	
For Gate With Double Barb Wire Arm, Add	129.05	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-151.23	
For Aluminized Steel Gate And Post, Add	387.15	
For Powder Coated Gate And Post, Add	209.71	
32 31 13 13-0375 EA 10' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,081.03	66.25
For Gate With Single Barb Wire Arm, Add	97.03	
For Gate With Double Barb Wire Arm, Add	141.14	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-165.40	
For Aluminized Steel Gate And Post, Add	423.41	
For Powder Coated Gate And Post, Add	229.35	
32 31 13 13-0376 EA 10' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	1,554.38	77.03
For Gate With Single Barb Wire Arm, Add	145.55	
For Gate With Double Barb Wire Arm, Add	211.70	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-248.09	
For Aluminized Steel Gate And Post, Add	635.11	
For Powder Coated Gate And Post, Add	344.02	
32 31 13 13-0377 EA 12' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	1,689.73	82.85
For Gate With Single Barb Wire Arm, Add	158.49	
For Gate With Double Barb Wire Arm, Add	230.53	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-270.15	
For Aluminized Steel Gate And Post, Add	691.58	
For Powder Coated Gate And Post, Add	374.61	
32 31 13 13-0378 EA 14' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	1,922.25	89.86
For Gate With Single Barb Wire Arm, Add	181.77	
For Gate With Double Barb Wire Arm, Add	264.40	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-309.84	
For Aluminized Steel Gate And Post, Add	793.19	
For Powder Coated Gate And Post, Add	429.64	
32 31 13 13-0379 EA 16' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,181.89	97.97
For Gate With Single Barb Wire Arm, Add	207.65	
For Gate With Double Barb Wire Arm, Add	302.03	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-353.95	
For Aluminized Steel Gate And Post, Add	906.10	
For Powder Coated Gate And Post, Add	490.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0380 EA 18' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,446.67	107.81
For Gate With Single Barb Wire Arm, Add	233.52	
For Gate With Double Barb Wire Arm, Add	339.67	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-398.05	
For Aluminized Steel Gate And Post, Add	1,019.01	
For Powder Coated Gate And Post, Add	551.96	
32 31 13 13-0381 EA 20' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,719.17	119.73
For Gate With Single Barb Wire Arm, Add	259.56	
For Gate With Double Barb Wire Arm, Add	377.54	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-442.43	
For Aluminized Steel Gate And Post, Add	1,132.63	
For Powder Coated Gate And Post, Add	613.51	
32 31 13 13-0382 EA 22' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,001.00	134.75
For Gate With Single Barb Wire Arm, Add	285.60	
For Gate With Double Barb Wire Arm, Add	415.41	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-486.81	
For Aluminized Steel Gate And Post, Add	1,246.24	
For Powder Coated Gate And Post, Add	675.05	
32 31 13 13-0383 EA 24' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,293.75	153.87
For Gate With Single Barb Wire Arm, Add	311.47	
For Gate With Double Barb Wire Arm, Add	453.05	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-530.92	
For Aluminized Steel Gate And Post, Add	1,359.15	
For Powder Coated Gate And Post, Add	736.21	
32 31 13 13-0384 EA 26' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,606.35	179.64
For Gate With Single Barb Wire Arm, Add	337.35	
For Gate With Double Barb Wire Arm, Add	490.69	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-575.03	
For Aluminized Steel Gate And Post, Add	1,472.06	
For Powder Coated Gate And Post, Add	797.37	
32 31 13 13-0385 EA 28' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,948.91	215.42
For Gate With Single Barb Wire Arm, Add	363.22	
For Gate With Double Barb Wire Arm, Add	528.32	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-619.13	
For Aluminized Steel Gate And Post, Add	1,584.97	
For Powder Coated Gate And Post, Add	858.53	
32 31 13 13-0386 EA 30' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,349.51	269.50
For Gate With Single Barb Wire Arm, Add	389.42	
For Gate With Double Barb Wire Arm, Add	566.43	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-663.79	
For Aluminized Steel Gate And Post, Add	1,699.29	
For Powder Coated Gate And Post, Add	920.45	
32 31 13 13-0387 12' Fence Height <small>(32 31 13 13-0266)</small>		
32 31 13 13-0388 EA 3' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	508.40	32.19
For Gate With Single Barb Wire Arm, Add	45.29	
For Gate With Double Barb Wire Arm, Add	65.88	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.20	
For Aluminized Steel Gate And Post, Add	197.63	
For Powder Coated Gate And Post, Add	107.05	
32 31 13 13-0389 EA 4' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	645.63	32.19
For Gate With Single Barb Wire Arm, Add	60.38	
For Gate With Double Barb Wire Arm, Add	87.83	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-102.93	
For Aluminized Steel Gate And Post, Add	263.50	
For Powder Coated Gate And Post, Add	142.73	
32 31 13 13-0390 EA 5' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	745.89	33.36
For Gate With Single Barb Wire Arm, Add	71.02	
For Gate With Double Barb Wire Arm, Add	103.30	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-121.06	
For Aluminized Steel Gate And Post, Add	309.91	
For Powder Coated Gate And Post, Add	167.87	
32 31 13 13-0391 EA 6' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	866.86	41.43
For Gate With Single Barb Wire Arm, Add	81.66	
For Gate With Double Barb Wire Arm, Add	118.77	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.19	
For Aluminized Steel Gate And Post, Add	356.32	
For Powder Coated Gate And Post, Add	193.01	
32 31 13 13-0392 EA 7' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	438.68	49.58
For Gate With Single Barb Wire Arm, Add	31.89	
For Gate With Double Barb Wire Arm, Add	46.38	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-54.35	
For Aluminized Steel Gate And Post, Add	139.14	
For Powder Coated Gate And Post, Add	75.37	
32 31 13 13-0393 EA 8' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	495.59	57.40
For Gate With Single Barb Wire Arm, Add	35.56	
For Gate With Double Barb Wire Arm, Add	51.73	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-60.62	
For Aluminized Steel Gate And Post, Add	155.18	
For Powder Coated Gate And Post, Add	84.06	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0394 EA 9' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	553.28	65.47
For Gate With Single Barb Wire Arm, Add	39.24	
For Gate With Double Barb Wire Arm, Add	57.07	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-66.88	
For Aluminized Steel Gate And Post, Add	171.22	
For Powder Coated Gate And Post, Add	92.74	
32 31 13 13-0395 EA 10' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	610.95	73.54
For Gate With Single Barb Wire Arm, Add	42.91	
For Gate With Double Barb Wire Arm, Add	62.42	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-73.14	
For Aluminized Steel Gate And Post, Add	187.25	
For Powder Coated Gate And Post, Add	101.43	
32 31 13 13-0396 EA 10' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	800.45	85.59
For Gate With Single Barb Wire Arm, Add	59.79	
For Gate With Double Barb Wire Arm, Add	86.96	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-101.91	
For Aluminized Steel Gate And Post, Add	260.89	
For Powder Coated Gate And Post, Add	141.32	
32 31 13 13-0397 EA 12' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	873.89	92.14
For Gate With Single Barb Wire Arm, Add	65.71	
For Gate With Double Barb Wire Arm, Add	95.58	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-112.01	
For Aluminized Steel Gate And Post, Add	286.73	
For Powder Coated Gate And Post, Add	155.31	
32 31 13 13-0398 EA 14' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	984.48	99.79
For Gate With Single Barb Wire Arm, Add	75.32	
For Gate With Double Barb Wire Arm, Add	109.56	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-128.39	
For Aluminized Steel Gate And Post, Add	328.67	
For Powder Coated Gate And Post, Add	178.03	
32 31 13 13-0399 EA 16' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,109.18	108.80
For Gate With Single Barb Wire Arm, Add	86.05	
For Gate With Double Barb Wire Arm, Add	125.16	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-146.67	
For Aluminized Steel Gate And Post, Add	375.48	
For Powder Coated Gate And Post, Add	203.39	
32 31 13 13-0400 EA 18' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	2,905.88	119.82
For Gate With Single Barb Wire Arm, Add	280.10	
For Gate With Double Barb Wire Arm, Add	407.42	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-477.44	
For Aluminized Steel Gate And Post, Add	1,222.25	
For Powder Coated Gate And Post, Add	662.05	
32 31 13 13-0401 EA 20' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	3,230.90	133.02
For Gate With Single Barb Wire Arm, Add	311.47	
For Gate With Double Barb Wire Arm, Add	453.05	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-530.92	
For Aluminized Steel Gate And Post, Add	1,359.15	
For Powder Coated Gate And Post, Add	736.21	
32 31 13 13-0402 EA 22' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	3,563.46	149.69
For Gate With Single Barb Wire Arm, Add	342.52	
For Gate With Double Barb Wire Arm, Add	498.21	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-583.85	
For Aluminized Steel Gate And Post, Add	1,494.64	
For Powder Coated Gate And Post, Add	809.60	
32 31 13 13-0403 EA 24' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	3,912.58	170.99
For Gate With Single Barb Wire Arm, Add	373.90	
For Gate With Double Barb Wire Arm, Add	543.85	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-637.32	
For Aluminized Steel Gate And Post, Add	1,631.55	
For Powder Coated Gate And Post, Add	883.76	
32 31 13 13-0404 EA 26' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	4,277.88	199.67
For Gate With Single Barb Wire Arm, Add	404.62	
For Gate With Double Barb Wire Arm, Add	588.54	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-689.70	
For Aluminized Steel Gate And Post, Add	1,765.63	
For Powder Coated Gate And Post, Add	956.38	
32 31 13 13-0405 EA 28' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	4,679.42	239.37
For Gate With Single Barb Wire Arm, Add	435.67	
For Gate With Double Barb Wire Arm, Add	633.71	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-742.62	
For Aluminized Steel Gate And Post, Add	1,901.12	
For Powder Coated Gate And Post, Add	1,029.77	
32 31 13 13-0406 EA 30' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	5,145.13	299.46
For Gate With Single Barb Wire Arm, Add	467.05	
For Gate With Double Barb Wire Arm, Add	679.34	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-796.10	
For Aluminized Steel Gate And Post, Add	2,038.02	
For Powder Coated Gate And Post, Add	1,103.93	

32 31 13 13-0407 Vinyl Coated Without Barb Wire Arm (32 31 13 13-0265)

Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter to 13' wide, 6-5/8" diameter for 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.

32 31 13 13-0408 4' Fence Height (32 31 13 13-0407)



		Exterior Improvements	32
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0409	EA	3' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	126.52 -12.71 7.46 10.85	19.57
32 31	13 13-0410	EA	4' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	149.12 -16.95 9.94 14.46	19.57
32 31	13 13-0411	EA	5' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	171.87 -20.48 12.01 17.48	20.83
32 31	13 13-0412	EA	6' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	203.23 -24.01 14.09 20.49	25.06
32 31	13 13-0413	EA	7' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	234.59 -27.54 16.16 23.50	29.21
32 31	13 13-0414	EA	8' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	265.95 -31.07 18.23 26.51	33.36
32 31	13 13-0415	EA	9' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	297.31 -34.60 20.30 29.53	37.59
32 31	13 13-0416	EA	10' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	328.67 -38.13 22.37 32.54	41.74
32 31	13 13-0417	EA	10' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	396.46 -50.84 29.83 43.39	41.74
32 31	13 13-0418	EA	12' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	459.64 -61.01 35.79 52.06	44.72
32 31	13 13-0419	EA	14' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	524.21 -71.18 41.76 60.74	48.17
32 31	13 13-0420	EA	16' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	590.49 -81.35 47.72 69.42	52.16
32 31	13 13-0421	EA	18' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	682.33 -91.52 53.69 78.09	64.65
32 31	13 13-0422	EA	20' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	750.43 -101.69 59.66 86.77	69.29
32 31	13 13-0423	EA	22' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	820.68 -111.86 65.62 95.45	74.66
32 31	13 13-0424	EA	24' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	893.58 -122.02 71.59 104.13	80.85
32 31	13 13-0425	EA	26' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	969.89 -132.19 77.55 112.80	88.23
32 31	13 13-0426	EA	28' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,050.60 -142.36 83.52 121.48	97.06
32 31	13 13-0427	EA	30' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,137.22 -152.53 89.48 130.16	107.81
32 31	13 13-0428		5' Fence Height <small>(32 31 13 13-0407)</small>		
32 31	13 13-0429	EA	3' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	146.65 -15.75 9.24 13.44	20.83

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0430	EA	4' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	174.65	20.83
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-21.00	
			<i>For Gate With Single Barb Wire Arm, Add</i>	12.32	
			<i>For Gate With Double Barb Wire Arm, Add</i>	17.92	
32 31	13 13-0431	EA	5' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	199.58	22.16
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-24.94	
			<i>For Gate With Single Barb Wire Arm, Add</i>	14.63	
			<i>For Gate With Double Barb Wire Arm, Add</i>	21.28	
32 31	13 13-0432	EA	6' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	233.87	26.62
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-28.88	
			<i>For Gate With Single Barb Wire Arm, Add</i>	16.94	
			<i>For Gate With Double Barb Wire Arm, Add</i>	24.64	
32 31	13 13-0433	EA	7' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	268.20	31.01
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-32.81	
			<i>For Gate With Single Barb Wire Arm, Add</i>	19.25	
			<i>For Gate With Double Barb Wire Arm, Add</i>	28.00	
32 31	13 13-0434	EA	8' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	303.29	35.71
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-36.75	
			<i>For Gate With Single Barb Wire Arm, Add</i>	21.56	
			<i>For Gate With Double Barb Wire Arm, Add</i>	31.36	
32 31	13 13-0435	EA	9' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	337.61	40.18
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-40.69	
			<i>For Gate With Single Barb Wire Arm, Add</i>	23.87	
			<i>For Gate With Double Barb Wire Arm, Add</i>	34.72	
32 31	13 13-0436	EA	10' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	371.92	44.56
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-44.63	
			<i>For Gate With Single Barb Wire Arm, Add</i>	26.18	
			<i>For Gate With Double Barb Wire Arm, Add</i>	38.08	
32 31	13 13-0437	EA	10' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	470.26	44.72
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-63.00	
			<i>For Gate With Single Barb Wire Arm, Add</i>	36.96	
			<i>For Gate With Double Barb Wire Arm, Add</i>	53.76	
32 31	13 13-0438	EA	12' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	547.79	48.17
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-75.60	
			<i>For Gate With Single Barb Wire Arm, Add</i>	44.35	
			<i>For Gate With Double Barb Wire Arm, Add</i>	64.51	
32 31	13 13-0439	EA	14' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	627.04	52.16
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-88.20	
			<i>For Gate With Single Barb Wire Arm, Add</i>	51.75	
			<i>For Gate With Double Barb Wire Arm, Add</i>	75.27	
32 31	13 13-0440	EA	16' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	731.85	64.65
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-100.80	
			<i>For Gate With Single Barb Wire Arm, Add</i>	59.14	
			<i>For Gate With Double Barb Wire Arm, Add</i>	86.02	
32 31	13 13-0441	EA	18' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	812.92	69.29
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-113.40	
			<i>For Gate With Single Barb Wire Arm, Add</i>	66.53	
			<i>For Gate With Double Barb Wire Arm, Add</i>	96.77	
32 31	13 13-0442	EA	20' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	896.13	74.66
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-126.00	
			<i>For Gate With Single Barb Wire Arm, Add</i>	73.92	
			<i>For Gate With Double Barb Wire Arm, Add</i>	107.52	
32 31	13 13-0443	EA	22' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	982.00	80.85
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-138.60	
			<i>For Gate With Single Barb Wire Arm, Add</i>	81.31	
			<i>For Gate With Double Barb Wire Arm, Add</i>	118.27	
32 31	13 13-0444	EA	24' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,071.28	88.23
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-151.20	
			<i>For Gate With Single Barb Wire Arm, Add</i>	88.71	
			<i>For Gate With Double Barb Wire Arm, Add</i>	129.03	
32 31	13 13-0445	EA	26' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,164.97	97.06
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-163.80	
			<i>For Gate With Single Barb Wire Arm, Add</i>	96.10	
			<i>For Gate With Double Barb Wire Arm, Add</i>	139.78	
32 31	13 13-0446	EA	28' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,264.55	107.81
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-176.40	
			<i>For Gate With Single Barb Wire Arm, Add</i>	103.49	
			<i>For Gate With Double Barb Wire Arm, Add</i>	150.53	
32 31	13 13-0447	EA	30' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,372.21	121.28
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-189.00	
			<i>For Gate With Single Barb Wire Arm, Add</i>	110.88	
			<i>For Gate With Double Barb Wire Arm, Add</i>	161.28	
32 31	13 13-0448		6' Fence Height <small>(32 31 13 13-0407)</small>		
32 31	13 13-0449	EA	3' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	156.90	22.32
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-16.83	
			<i>For Gate With Single Barb Wire Arm, Add</i>	9.87	
			<i>For Gate With Double Barb Wire Arm, Add</i>	14.36	
32 31	13 13-0450	EA	4' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	186.83	22.32
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-22.44	
			<i>For Gate With Single Barb Wire Arm, Add</i>	13.17	
			<i>For Gate With Double Barb Wire Arm, Add</i>	19.15	



	Exterior Improvements	32
	Site Improvements	32 30
	Fences And Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0451	EA	5' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	213.41 -26.65 15.64 22.74	23.73
32 31	13 13-0452	EA	6' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	250.74 -30.86 18.10 26.33	28.66
32 31	13 13-0453	EA	7' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	288.05 -35.07 20.57 29.92	33.67
32 31	13 13-0454	EA	8' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	324.58 -39.28 23.04 33.52	38.37
32 31	13 13-0455	EA	9' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	361.93 -43.49 25.51 37.11	43.31
32 31	13 13-0456	EA	10' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	399.24 -47.69 27.98 40.70	48.25
32 31	13 13-0457	EA	10' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	503.68 -67.33 39.50 57.46	48.17
32 31	13 13-0458	EA	12' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	587.54 -80.80 47.40 68.95	52.16
32 31	13 13-0459	EA	14' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	710.84 -94.26 55.30 80.44	69.29
32 31	13 13-0460	EA	16' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	798.67 -107.73 63.20 91.93	74.66
32 31	13 13-0461	EA	18' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	889.16 -121.19 71.10 103.42	80.85
32 31	13 13-0462	EA	20' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	996.33 -137.15 80.46 117.03	88.23
32 31	13 13-0463	EA	22' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,083.77 -148.58 87.17 126.79	97.06
32 31	13 13-0464	EA	24' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,185.56 -161.59 94.80 137.89	107.81
32 31	13 13-0465	EA	26' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,297.84 -175.06 102.70 149.38	121.28
32 31	13 13-0466	EA	28' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,421.69 -188.53 110.60 160.88	138.57
32 31	13 13-0467	EA	30' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,562.89 -201.99 118.50 172.37	161.70
32 31	13 13-0468		7' Fence Height <small>(32 31 13 13-0407)</small>		
32 31	13 13-0469	EA	3' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	166.59 -17.68 10.37 15.09	24.04
32 31	13 13-0470	EA	4' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	198.03 -23.57 13.83 20.12	24.04
32 31	13 13-0471	EA	5' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	225.28 -28.00 16.42 23.89	25.29

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0472 EA 6' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	265.29	30.78
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-32.42	
For Gate With Single Barb Wire Arm, Add	19.02	
For Gate With Double Barb Wire Arm, Add	27.66	
32 31 13 13-0473 EA 7' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	304.52	36.02
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-36.83	
For Gate With Single Barb Wire Arm, Add	21.61	
For Gate With Double Barb Wire Arm, Add	31.43	
32 31 13 13-0474 EA 8' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	344.55	41.43
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-41.26	
For Gate With Single Barb Wire Arm, Add	24.20	
For Gate With Double Barb Wire Arm, Add	35.20	
32 31 13 13-0475 EA 9' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	383.78	46.68
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-45.68	
For Gate With Single Barb Wire Arm, Add	26.80	
For Gate With Double Barb Wire Arm, Add	38.98	
32 31 13 13-0476 EA 10' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	423.81	52.16
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-50.10	
For Gate With Single Barb Wire Arm, Add	29.39	
For Gate With Double Barb Wire Arm, Add	42.75	
32 31 13 13-0477 EA 10' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	533.82	52.16
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-70.72	
For Gate With Single Barb Wire Arm, Add	41.49	
For Gate With Double Barb Wire Arm, Add	60.35	
32 31 13 13-0478 EA 12' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	660.72	69.29
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-84.86	
For Gate With Single Barb Wire Arm, Add	49.79	
For Gate With Double Barb Wire Arm, Add	72.42	
32 31 13 13-0479 EA 14' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	752.18	74.66
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-99.01	
For Gate With Single Barb Wire Arm, Add	58.09	
For Gate With Double Barb Wire Arm, Add	84.49	
32 31 13 13-0480 EA 16' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	846.27	80.85
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-113.15	
For Gate With Single Barb Wire Arm, Add	66.38	
For Gate With Double Barb Wire Arm, Add	96.56	
32 31 13 13-0481 EA 18' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	943.80	88.23
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-127.30	
For Gate With Single Barb Wire Arm, Add	74.68	
For Gate With Double Barb Wire Arm, Add	108.63	
32 31 13 13-0482 EA 20' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,045.70	97.06
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-141.44	
For Gate With Single Barb Wire Arm, Add	82.98	
For Gate With Double Barb Wire Arm, Add	120.70	
32 31 13 13-0483 EA 22' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,153.51	107.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-155.58	
For Gate With Single Barb Wire Arm, Add	91.28	
For Gate With Double Barb Wire Arm, Add	132.76	
32 31 13 13-0484 EA 24' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,269.41	121.28
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-169.73	
For Gate With Single Barb Wire Arm, Add	99.57	
For Gate With Double Barb Wire Arm, Add	144.84	
32 31 13 13-0485 EA 26' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,396.89	138.57
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-183.88	
For Gate With Single Barb Wire Arm, Add	107.87	
For Gate With Double Barb Wire Arm, Add	156.91	
32 31 13 13-0486 EA 28' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,541.69	161.70
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-198.02	
For Gate With Single Barb Wire Arm, Add	116.17	
For Gate With Double Barb Wire Arm, Add	168.97	
32 31 13 13-0487 EA 30' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,714.26	194.02
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-212.16	
For Gate With Single Barb Wire Arm, Add	124.47	
For Gate With Double Barb Wire Arm, Add	181.05	
32 31 13 13-0488 8' Fence Height (32 31 13 13-0407)		
32 31 13 13-0489 EA 3' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	192.61	26.08
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-21.43	
For Gate With Single Barb Wire Arm, Add	12.57	
For Gate With Double Barb Wire Arm, Add	18.29	
32 31 13 13-0490 EA 4' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	230.71	26.08
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-28.57	
For Gate With Single Barb Wire Arm, Add	16.76	
For Gate With Double Barb Wire Arm, Add	24.38	
32 31 13 13-0491 EA 5' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	256.11	26.08
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-33.34	
For Gate With Single Barb Wire Arm, Add	19.56	
For Gate With Double Barb Wire Arm, Add	28.45	
32 31 13 13-0492 EA 6' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	301.85	32.89
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-38.10	
For Gate With Single Barb Wire Arm, Add	22.35	
For Gate With Double Barb Wire Arm, Add	32.51	



	Exterior Improvements	32
	Site Improvements	32 30
	Fences And Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0493	EA	7' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	347.62 -42.86 25.14 36.57	39.63
32 31	13 13-0494	EA	8' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	392.60 -47.62 27.94 40.64	46.13
32 31	13 13-0495	EA	9' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	438.36 -52.38 30.73 44.70	52.95
32 31	13 13-0496	EA	10' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	484.11 -57.15 33.53 48.76	59.75
32 31	13 13-0497	EA	10' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	665.27 -85.72 50.29 73.15	69.29
32 31	13 13-0498	EA	12' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	772.71 -102.86 60.34 87.77	74.66
32 31	13 13-0499	EA	14' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	882.81 -120.00 70.40 102.40	80.85
32 31	13 13-0500	EA	16' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	996.32 -137.15 80.46 117.03	88.23
32 31	13 13-0501	EA	18' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,114.23 -154.29 90.52 131.66	97.06
32 31	13 13-0502	EA	20' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,238.05 -171.44 100.58 146.29	107.81
32 31	13 13-0503	EA	22' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,369.94 -188.58 110.63 160.92	121.28
32 31	13 13-0504	EA	24' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,513.40 -205.72 120.69 175.55	138.57
32 31	13 13-0505	EA	26' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,674.21 -222.86 130.75 190.18	161.70
32 31	13 13-0506	EA	28' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,862.76 -240.01 140.80 204.81	194.02
32 31	13 13-0507	EA	30' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	2,099.86 -257.15 150.86 219.44	242.56
32 31	13 13-0508		10' Fence Height <small>(22 31 13 13-0407)</small>		
32 31	13 13-0509	EA	3' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	219.59 -24.86 14.58 21.21	28.97
32 31	13 13-0510	EA	4' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	263.78 -33.14 19.44 28.28	28.97
32 31	13 13-0511	EA	5' Wide x 10' High Gate Single Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	297.08 -38.67 22.69 33.00	30.23
32 31	13 13-0512	EA	6' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	348.47 -44.19 25.93 37.71	37.59
32 31	13 13-0513	EA	7' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	399.08 -49.72 29.17 42.43	44.56

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13	13-0514	EA 8' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	450.47	51.93
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-55.24	
			For Gate With Single Barb Wire Arm, Add	32.41	
			For Gate With Double Barb Wire Arm, Add	47.14	
32 31	13	13-0515	EA 9' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	501.08	58.97
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-60.77	
			For Gate With Single Barb Wire Arm, Add	35.65	
			For Gate With Double Barb Wire Arm, Add	51.86	
32 31	13	13-0516	EA 10' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	552.48	66.25
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-66.29	
			For Gate With Single Barb Wire Arm, Add	38.89	
			For Gate With Double Barb Wire Arm, Add	56.57	
32 31	13	13-0517	EA 10' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	761.56	77.03
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-99.44	
			For Gate With Single Barb Wire Arm, Add	58.34	
			For Gate With Double Barb Wire Arm, Add	84.85	
32 31	13	13-0518	EA 12' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	885.32	82.85
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-119.32	
			For Gate With Single Barb Wire Arm, Add	70.00	
			For Gate With Double Barb Wire Arm, Add	101.82	
32 31	13	13-0519	EA 14' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,012.23	89.86
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.21	
			For Gate With Single Barb Wire Arm, Add	81.67	
			For Gate With Double Barb Wire Arm, Add	118.79	
32 31	13	13-0520	EA 16' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,142.70	97.97
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-159.10	
			For Gate With Single Barb Wire Arm, Add	93.34	
			For Gate With Double Barb Wire Arm, Add	135.76	
32 31	13	13-0521	EA 18' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,278.32	107.81
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-178.99	
			For Gate With Single Barb Wire Arm, Add	105.00	
			For Gate With Double Barb Wire Arm, Add	152.73	
32 31	13	13-0522	EA 20' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,420.18	119.73
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-198.87	
			For Gate With Single Barb Wire Arm, Add	116.67	
			For Gate With Double Barb Wire Arm, Add	169.70	
32 31	13	13-0523	EA 22' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,571.38	134.75
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-218.76	
			For Gate With Single Barb Wire Arm, Add	128.34	
			For Gate With Double Barb Wire Arm, Add	186.68	
32 31	13	13-0524	EA 24' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,734.96	153.87
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-238.65	
			For Gate With Single Barb Wire Arm, Add	140.01	
			For Gate With Double Barb Wire Arm, Add	203.64	
32 31	13	13-0525	EA 26' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,918.40	179.64
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-258.53	
			For Gate With Single Barb Wire Arm, Add	151.67	
			For Gate With Double Barb Wire Arm, Add	220.62	
32 31	13	13-0526	EA 28' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,131.80	215.42
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-278.42	
			For Gate With Single Barb Wire Arm, Add	163.34	
			For Gate With Double Barb Wire Arm, Add	237.59	
32 31	13	13-0527	EA 30' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,400.30	269.50
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-298.31	
			For Gate With Single Barb Wire Arm, Add	175.01	
			For Gate With Double Barb Wire Arm, Add	254.56	
32 31	13	13-0528	12' Fence Height (32 31 13 13-0407)		
32 31	13	13-0529	EA 3' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	281.58	32.19
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-34.67	
			For Gate With Single Barb Wire Arm, Add	20.34	
			For Gate With Double Barb Wire Arm, Add	29.58	
32 31	13	13-0530	EA 4' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	343.04	32.19
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-46.19	
			For Gate With Single Barb Wire Arm, Add	27.10	
			For Gate With Double Barb Wire Arm, Add	39.42	
32 31	13	13-0531	EA 5' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	392.32	33.36
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-54.77	
			For Gate With Single Barb Wire Arm, Add	32.13	
			For Gate With Double Barb Wire Arm, Add	46.73	
32 31	13	13-0532	EA 6' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	454.69	41.43
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-61.91	
			For Gate With Single Barb Wire Arm, Add	36.32	
			For Gate With Double Barb Wire Arm, Add	52.83	
32 31	13	13-0533	EA 7' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	521.30	49.58
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-69.84	
			For Gate With Single Barb Wire Arm, Add	40.98	
			For Gate With Double Barb Wire Arm, Add	59.60	
32 31	13	13-0534	EA 8' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	587.13	57.40
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.78	
			For Gate With Single Barb Wire Arm, Add	45.63	
			For Gate With Double Barb Wire Arm, Add	66.37	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0535	EA	9' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	653.74 -85.72 50.29 73.15	65.47
32 31	13 13-0536	EA	10' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	716.11 -92.86 54.48 79.24	73.54
32 31	13 13-0537	EA	10' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	999.48 -139.25 81.69 118.82	85.59
32 31	13 13-0538	EA	12' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,191.87 -171.63 100.69 146.45	92.14
32 31	13 13-0539	EA	14' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,368.50 -200.39 117.56 171.00	99.79
32 31	13 13-0540	EA	16' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,548.06 -228.96 134.33 195.38	108.80
32 31	13 13-0541	EA	18' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,731.19 -257.15 150.86 219.44	119.82
32 31	13 13-0542	EA	20' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,923.21 -285.73 167.63 243.82	133.02
32 31	13 13-0543	EA	22' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	2,125.89 -314.30 184.39 268.20	149.69
32 31	13 13-0544	EA	24' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	2,342.18 -342.87 201.15 292.59	170.99
32 31	13 13-0545	EA	26' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	2,585.61 -372.40 218.47 317.78	199.67
32 31	13 13-0546	EA	28' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	2,857.27 -400.97 235.24 342.16	239.37
32 31	13 13-0547	EA	30' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	3,190.15 -429.54 252.00 366.54	299.46
32 31	13 13-0548		Chain Link Galvanized Steel Sliding Gate <small>(22 31 13 13-0265)</small> Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, rails, wheel rollers, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31	13 13-0549		4' High Chain Link Galvanized Steel Sliding Gate <small>(22 31 13 13-0548)</small>		
32 31	13 13-0550	EA	10' Long x 4' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	1,719.95 124.17 338.65	295.54
32 31	13 13-0551	EA	12' Long x 4' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,068.13 149.00 406.37	356.82
32 31	13 13-0552	EA	14' Long x 4' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,412.98 173.84 474.11	416.28
32 31	13 13-0553	EA	16' Long x 4' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,763.01 198.67 541.83	478.46
32 31	13 13-0554	EA	18' Long x 4' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,108.42 223.51 609.56	538.28
32 31	13 13-0555	EA	20' Long x 4' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,442.79 248.34 677.29	592.54
32 31	13 13-0556	EA	24' Long x 4' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	4,116.37 295.82 806.78	713.55
32 31	13 13-0557	EA	30' Long x 4' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	6,080.21 372.51 1,015.94	1,346.88

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0558 EA 40' Long x 4' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	8,106.94 496.68 1,354.58	1,795.84
32 31 13 13-0559 5' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0560 EA 10' Long x 5' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	1,805.33 127.82 348.60	321.68
32 31 13 13-0561 EA 12' Long x 5' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,165.50 153.38 418.32	385.59
32 31 13 13-0562 EA 14' Long x 5' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,526.26 178.95 488.04	449.78
32 31 13 13-0563 EA 16' Long x 5' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,887.41 204.51 557.76	514.15
32 31 13 13-0564 EA 18' Long x 5' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,248.12 230.07 627.47	578.25
32 31 13 13-0565 EA 20' Long x 5' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,609.08 255.64 697.20	642.53
32 31 13 13-0566 EA 24' Long x 5' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	4,312.18 304.52 830.50	771.91
32 31 13 13-0567 EA 30' Long x 5' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	5,413.96 383.46 1,045.79	964.02
32 31 13 13-0568 EA 40' Long x 5' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	7,218.16 511.28 1,394.39	1,285.06
32 31 13 13-0569 6' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0570 EA 10' Long x 6' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	1,939.40 130.37 355.57	377.13
32 31 13 13-0571 EA 12' Long x 6' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,324.63 156.45 426.68	451.15
32 31 13 13-0572 EA 14' Long x 6' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,711.88 182.52 497.79	526.26
32 31 13 13-0573 EA 16' Long x 6' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,099.50 208.60 568.91	601.56
32 31 13 13-0574 EA 18' Long x 6' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,486.77 234.67 640.02	676.67
32 31 13 13-0575 EA 20' Long x 6' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,879.11 260.75 711.13	754.34
32 31 13 13-0576 EA 24' Long x 6' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	4,628.38 310.60 847.10	902.38
32 31 13 13-0577 EA 30' Long x 6' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	5,812.12 391.12 1,066.70	1,128.27
32 31 13 13-0578 EA 40' Long x 6' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	7,748.26 521.50 1,422.26	1,503.67
32 31 13 13-0579 7' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0580 EA 10' Long x 7' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,072.96 135.48 369.50	420.64
32 31 13 13-0581 EA 12' Long x 7' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,486.89 162.58 443.41	504.41
32 31 13 13-0582 EA 14' Long x 7' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,902.18 189.68 517.30	588.91
32 31 13 13-0583 EA 16' Long x 7' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,316.04 216.77 591.20	672.67
32 31 13 13-0584 EA 18' Long x 7' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,730.69 243.87 665.10	756.89
32 31 13 13-0585 EA 20' Long x 7' High Chain Link Galvanized Steel Sliding Gate <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	4,144.75 270.97 739.00	840.74



		Exterior Improvements	32
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0586 EA 24' Long x 7' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	4,952.01 322.77 880.29	1,008.82
32 31 13 13-0587 EA 30' Long x 7' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	6,217.12 406.45 1,108.50	1,261.02
32 31 13 13-0588 EA 40' Long x 7' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	8,289.48 541.93 1,478.00	1,681.39
32 31 13 13-0589 8' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0590 EA 10' Long x 8' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,179.55 139.50 380.45	455.70
32 31 13 13-0591 EA 12' Long x 8' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,612.85 167.40 456.54	545.57
32 31 13 13-0592 EA 14' Long x 8' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,048.38 195.30 532.63	636.52
32 31 13 13-0593 EA 16' Long x 8' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,484.08 223.20 608.72	727.48
32 31 13 13-0594 EA 18' Long x 8' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,918.78 251.09 684.80	818.07
32 31 13 13-0595 EA 20' Long x 8' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	4,354.55 278.99 760.89	909.12
32 31 13 13-0596 EA 24' Long x 8' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	5,203.37 332.34 906.38	1,091.03
32 31 13 13-0597 EA 30' Long x 8' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	6,532.52 418.49 1,141.34	1,364.00
32 31 13 13-0598 EA 40' Long x 8' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	8,707.31 557.99 1,521.79	1,817.33
32 31 13 13-0599 9' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0600 EA 10' Long x 9' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,305.54 144.24 393.38	497.13
32 31 13 13-0601 EA 12' Long x 9' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,762.94 173.09 472.06	594.73
32 31 13 13-0602 EA 14' Long x 9' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,223.21 201.94 550.74	693.70
32 31 13 13-0603 EA 16' Long x 9' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,684.26 230.79 629.42	793.12
32 31 13 13-0604 EA 18' Long x 9' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	4,144.70 259.63 708.09	892.19
32 31 13 13-0605 EA 20' Long x 9' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	4,605.13 288.48 786.77	991.25
32 31 13 13-0606 EA 24' Long x 9' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	5,502.80 343.64 937.20	1,189.37
32 31 13 13-0607 EA 30' Long x 9' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	6,906.88 432.72 1,180.16	1,486.56
32 31 13 13-0608 EA 40' Long x 9' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	9,212.41 576.97 1,573.55	1,983.67
32 31 13 13-0609 10' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0610 EA 10' Long x 10' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,461.36 150.44 410.30	546.84
32 31 13 13-0611 EA 12' Long x 10' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	2,953.64 180.53 492.37	656.19
32 31 13 13-0612 EA 14' Long x 10' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,446.28 210.62 574.43	765.72
32 31 13 13-0613 EA 16' Long x 10' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,938.39 240.71 656.49	875.07

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0614 EA 18' Long x 10' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	4,430.45 270.80 738.55	984.33
32 31 13 13-0615 EA 20' Long x 10' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	4,922.73 300.89 820.61	1,093.67
32 31 13 13-0616 EA 24' Long x 10' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	5,884.14 358.42 977.51	1,312.92
32 31 13 13-0617 EA 30' Long x 10' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	7,384.09 451.34 1,230.92	1,640.52
32 31 13 13-0618 EA 40' Long x 10' High Chain Link Galvanized Steel Sliding Gate..... <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	9,842.83 601.78 1,641.23	2,186.08
32 31 13 13-0619 Sliding Cantilever Gate, Single Track, Manually Operated Exposed Roller <small>(32)</small> <small>31 13 13-0265</small> Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, rails, wheel rollers, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, single track, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate. See CSI section 32 31 11 00-0020 for gate operators.		
32 31 13 13-0620 EA 5' High x 10' Wide Galvanized Cantilever Sliding Gate..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	3,512.58 306.26 445.47 1,336.41 584.68 835.26	364.19
32 31 13 13-0621 EA 5' High x 12' Wide Galvanized Cantilever Sliding Gate..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	3,884.21 327.11 475.80 1,427.39 624.48 892.12	455.25
32 31 13 13-0622 EA 5' High x 15' Wide Galvanized Cantilever Sliding Gate..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	4,258.43 348.24 506.54 1,519.61 664.83 949.76	546.29
32 31 13 13-0623 EA 5' High x 20' Wide Galvanized Cantilever Sliding Gate..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	5,044.74 394.68 574.07 1,722.22 753.47 1,076.39	728.39
32 31 13 13-0624 EA 6' High x 15' Wide Galvanized Cantilever Sliding Gate..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	4,717.23 358.65 521.67 1,565.02 684.69 978.14	728.39
32 31 13 13-0625 EA 6' High x 20' Wide Galvanized Cantilever Sliding Gate..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	5,583.94 403.91 587.51 1,762.52 771.10 1,101.58	956.01
32 31 13 13-0626 EA 6' High x 25' Wide Galvanized Cantilever Sliding Gate..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	7,357.93 548.97 798.51 2,395.52 1,048.04 1,497.20	1,183.64
32 31 13 13-0627 EA 6' High x 30' Wide Galvanized Cantilever Sliding Gate..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	8,330.33 605.86 881.25 2,643.75 1,156.64 1,652.35	1,411.26
32 31 13 13-0628 EA 8' High x 15' Wide Galvanized Cantilever Sliding Gate..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	5,551.28 410.33 596.85 1,790.55 783.37 1,119.09	910.49
32 31 13 13-0629 EA 8' High x 20' Wide Galvanized Cantilever Sliding Gate..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	6,658.68 462.04 672.06 2,016.18 882.08 1,260.11	1,229.16



		Exterior Improvements	32
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0630 EA 8' High x 25' Wide Galvanized Cantilever Sliding Gate..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	8,804.54 627.98 913.42 2,740.26 1,198.86 1,712.66	1,547.83
32 31 13 13-0631 EA 8' High x 30' Wide Galvanized Cantilever Sliding Gate..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	9,941.69 692.97 1,007.96 3,023.88 1,322.95 1,889.92	1,820.97
32 31 13 13-0632 Gate Accessories <small>(32 31 13 13-0265)</small>		
32 31 13 13-0633 EA Gate Center Stop, Cast Steel, Ground	27.14	
32 31 13 13-0634 EA Gate Latch, Malleable Galvanized Steel	33.27	
32 31 13 13-0635 EA Gate Keeper, Full Length, Galvanized Steel.....	147.12	
32 31 13 13-0636 EA Gate Keeper Hold-Open For Cantilever Gate.....	67.91	14.88
32 31 13 13-0637 EA Heavy Duty Gate Latch, Malleable Galvanized Steel	38.69	
32 31 13 13-0638 EA Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 3' To 5' High Gate.....	780.52	
32 31 13 13-0639 EA Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 6' To 8' High Gate	836.85	
32 31 13 13-0640 EA Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 10' To 12' High Gate	893.18	
32 31 13 13-0641 Pipe Gate <small>(32 31 13 13-0265)</small>		
32 31 13 13-0642 EA 20' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	2,314.12	
32 31 13 13-0643 EA 25' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	2,887.09	
32 31 13 13-0644 EA 30' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	3,435.17	
32 31 13 13-0645 Vertical-Pivot Lift Gate <small>(32 31 13 13-0265)</small>		
Note: Includes 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes operator. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate.		
32 31 13 13-0646 EA 5' High x 12' Wide Galvanized Vertical-Pivot Lift Gate..... <i>For Curb Notch, Add</i> <i>For Prewired Loop Kit, Add</i>	13,168.73 239.00 245.00	682.86
32 31 13 13-0647 EA 5' High x 14' Wide Galvanized Vertical-Pivot Lift Gate..... <i>For Curb Notch, Add</i> <i>For Prewired Loop Kit, Add</i>	13,441.87 239.00 245.00	819.44
32 31 13 13-0648 EA 5' High x 16' Wide Galvanized Vertical-Pivot Lift Gate..... <i>For Curb Notch, Add</i> <i>For Prewired Loop Kit, Add</i> <i>For Wind Bracing, Add</i>	13,715.02 239.00 245.00 287.50	956.01
32 31 13 13-0649 EA 5' High x 18' Wide Galvanized Vertical-Pivot Lift Gate..... <i>For Curb Notch, Add</i> <i>For Prewired Loop Kit, Add</i> <i>For Wind Bracing, Add</i>	14,136.16 239.00 245.00 317.50	1,092.58
32 31 13 13-0650 EA 5' High x 20' Wide Galvanized Vertical-Pivot Lift Gate..... <i>For Curb Notch, Add</i> <i>For Prewired Loop Kit, Add</i> <i>For Wind Bracing, Add</i>	14,549.91 239.00 245.00 317.50	1,229.16
32 31 13 13-0651 EA 6' High x 12' Wide Galvanized Vertical-Pivot Lift Gate..... <i>For Curb Notch, Add</i> <i>For Prewired Loop Kit, Add</i>	13,867.05 239.00 245.00	887.73
32 31 13 13-0652 EA 6' High x 14' Wide Galvanized Vertical-Pivot Lift Gate..... <i>For Curb Notch, Add</i> <i>For Prewired Loop Kit, Add</i>	14,140.19 239.00 245.00	1,024.30
32 31 13 13-0653 EA 6' High x 16' Wide Galvanized Vertical-Pivot Lift Gate..... <i>For Curb Notch, Add</i> <i>For Prewired Loop Kit, Add</i> <i>For Wind Bracing, Add</i>	14,413.34 239.00 245.00 287.50	1,160.87
32 31 13 13-0654 EA 6' High x 18' Wide Galvanized Vertical-Pivot Lift Gate..... <i>For Curb Notch, Add</i> <i>For Prewired Loop Kit, Add</i> <i>For Wind Bracing, Add</i>	14,767.88 239.00 245.00 317.50	1,297.45
32 31 13 13-0655 EA 6' High x 20' Wide Galvanized Vertical-Pivot Lift Gate..... <i>For Curb Notch, Add</i> <i>For Prewired Loop Kit, Add</i> <i>For Wind Bracing, Add</i>	15,248.24 239.00 245.00 317.50	1,434.02
32 31 13 13-0656 Reinforced Gate <small>(32 31 13 13-0265)</small>		
Note: With cross bracing, tension rods, gate keeper (full height, stainless steel rod, internal locking device, gate stop), off-set hinges, and 6 gauge fabric. Excludes gate posts.		
32 31 13 13-0657 LF Reinforced Single Gate, 4' High, Galvanized..... <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i>	319.21 180.25 240.34 375.53	9.40

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0658 LF Reinforced Single Gate, 5' High, Galvanized.....	342.57	10.18
For Vinyl Coated, Add	193.33	
For Powder Coated, Add	257.77	
For Aluminum Coated, Add	402.76	
32 31 13 13-0659 LF Reinforced Single Gate, 6' High, Galvanized.....	365.94	11.36
For Vinyl Coated, Add	205.94	
For Powder Coated, Add	274.58	
For Aluminum Coated, Add	429.04	
32 31 13 13-0660 LF Reinforced Single Gate, 7' High, Galvanized.....	387.79	12.14
For Vinyl Coated, Add	218.11	
For Powder Coated, Add	290.82	
For Aluminum Coated, Add	454.40	
32 31 13 13-0661 LF Reinforced Single Gate, 8' High, Galvanized.....	410.85	13.71
For Vinyl Coated, Add	230.06	
For Powder Coated, Add	306.75	
For Aluminum Coated, Add	479.30	
32 31 13 13-0662 LF Reinforced Double Gate, 4' High, Galvanized.....	220.02	9.40
For Vinyl Coated, Add	120.74	
For Powder Coated, Add	160.98	
For Aluminum Coated, Add	251.54	
32 31 13 13-0663 LF Reinforced Double Gate, 5' High, Galvanized.....	246.76	10.18
For Vinyl Coated, Add	135.84	
For Powder Coated, Add	181.12	
For Aluminum Coated, Add	283.00	
32 31 13 13-0664 LF Reinforced Double Gate, 6' High, Galvanized.....	273.38	11.36
For Vinyl Coated, Add	150.40	
For Powder Coated, Add	200.54	
For Aluminum Coated, Add	313.34	
32 31 13 13-0665 LF Reinforced Double Gate, 7' High, Galvanized.....	349.43	12.14
For Vinyl Coated, Add	195.10	
For Powder Coated, Add	260.13	
For Aluminum Coated, Add	406.45	
32 31 13 13-0666 LF Reinforced Double Gate, 8' High, Galvanized.....	425.27	13.71
For Vinyl Coated, Add	238.72	
For Powder Coated, Add	318.29	
For Aluminum Coated, Add	497.33	
32 31 13 13-0667 Accessories (32 31 13 13)		
32 31 13 13-0668 Barbed And Concertina Wire (32 31 13 13-0667)		
32 31 13 13-0669 Single Strand Barbed Wire (32 31 13 13-0668)		
32 31 13 13-0670 LF Galvanized Barbed Wire, Per Strand.....	0.83	0.39
Note: Includes clips. 4 points 12-1/2 Gauge, Class I.		
For >500 To 2,000, Deduct	-0.08	
For >2,000, Deduct	-0.12	
32 31 13 13-0671 LF Vinyl Coated Barbed Wire (Fused), Per Strand.....	0.91	0.39
Note: Includes clips.		
For >500 To 2,000, Deduct	-0.08	
For >2,000, Deduct	-0.13	
32 31 13 13-0672 EA Barbed Wire Extension Arms 3 Strands (Single Arm).....	8.45	6.27
32 31 13 13-0673 EA Barbed Wire Extension Arms 6 Strands (Double Arm).....	12.86	7.52
32 31 13 13-0674 EA Barbed Wire Eye Tops (For Single Strand).....	9.09	6.27
32 31 13 13-0675 Galvanized Steel Concertina (Razor) Wire, Single Coil (32 31 13 13-0668)		
32 31 13 13-0676 LF 18" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	2.78	0.55
For >500 To 1,500, Deduct	-0.25	
For >1,500 To 5,000, Deduct	-0.50	
For >5,000, Deduct	-0.71	
For Ground Installation, Deduct	-0.39	
For Double Coil (Helix), Add	2.00	
32 31 13 13-0677 LF 18" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	4.18	0.55
For >500 To 1,500, Deduct	-0.37	
For >1,500 To 5,000, Deduct	-0.74	
For >5,000, Deduct	-1.07	
For Ground Installation, Deduct	-0.59	
For Double Coil (Helix), Add	3.01	
32 31 13 13-0678 LF 18" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	5.55	0.55
For >500 To 1,500, Deduct	-0.49	
For >1,500 To 5,000, Deduct	-0.99	
For >5,000, Deduct	-1.42	
For Ground Installation, Deduct	-0.78	
For Double Coil (Helix), Add	3.99	
32 31 13 13-0679 LF 24" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	3.44	0.55
For >500 To 1,500, Deduct	-0.30	
For >1,500 To 5,000, Deduct	-0.60	
For >5,000, Deduct	-0.86	
For Ground Installation, Deduct	-0.44	
For Double Coil (Helix), Add	2.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0680 LF 24" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	5.18	0.55
<i>For >500 To 1,500, Deduct</i>	-0.45	
<i>For >1,500 To 5,000, Deduct</i>	-0.91	
<i>For >5,000, Deduct</i>	-1.30	
<i>For Ground Installation, Deduct</i>	-0.65	
<i>For Double Coil (Helix), Add</i>	3.88	
32 31 13 13-0681 LF 24" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	6.85	0.55
<i>For >500 To 1,500, Deduct</i>	-0.60	
<i>For >1,500 To 5,000, Deduct</i>	-1.20	
<i>For >5,000, Deduct</i>	-1.72	
<i>For Ground Installation, Deduct</i>	-0.87	
<i>For Double Coil (Helix), Add</i>	5.12	
32 31 13 13-0682 LF 30" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	8.61	0.55
<i>For >500 To 1,500, Deduct</i>	-0.69	
<i>For >1,500 To 5,000, Deduct</i>	-1.39	
<i>For >5,000, Deduct</i>	-1.92	
<i>For Ground Installation, Deduct</i>	-0.49	
<i>For Double Coil (Helix), Add</i>	7.63	
32 31 13 13-0683 LF 30" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	13.00	0.55
<i>For >500 To 1,500, Deduct</i>	-1.05	
<i>For >1,500 To 5,000, Deduct</i>	-2.10	
<i>For >5,000, Deduct</i>	-2.89	
<i>For Ground Installation, Deduct</i>	-0.73	
<i>For Double Coil (Helix), Add</i>	11.54	
32 31 13 13-0684 LF 30" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	17.21	0.55
<i>For >500 To 1,500, Deduct</i>	-1.39	
<i>For >1,500 To 5,000, Deduct</i>	-2.78	
<i>For >5,000, Deduct</i>	-3.83	
<i>For Ground Installation, Deduct</i>	-0.98	
<i>For Double Coil (Helix), Add</i>	15.25	
32 31 13 13-0685 Stainless Steel Concertina (Razor) Wire, Single Coil <small>(32 31 13 13-0668)</small>		
32 31 13 13-0686 LF 18" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	3.51	0.55
<i>For >500 To 1,500, Deduct</i>	-0.30	
<i>For >1,500 To 5,000, Deduct</i>	-0.61	
<i>For >5,000, Deduct</i>	-0.86	
<i>For Ground Installation, Deduct</i>	-0.39	
<i>For Double Coil (Helix), Add</i>	2.73	
32 31 13 13-0687 LF 18" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	5.28	0.55
<i>For >500 To 1,500, Deduct</i>	-0.45	
<i>For >1,500 To 5,000, Deduct</i>	-0.91	
<i>For >5,000, Deduct</i>	-1.29	
<i>For Ground Installation, Deduct</i>	-0.59	
<i>For Double Coil (Helix), Add</i>	4.11	
32 31 13 13-0688 LF 18" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	7.00	0.55
<i>For >500 To 1,500, Deduct</i>	-0.60	
<i>For >1,500 To 5,000, Deduct</i>	-1.21	
<i>For >5,000, Deduct</i>	-1.71	
<i>For Ground Installation, Deduct</i>	-0.78	
<i>For Double Coil (Helix), Add</i>	5.44	
32 31 13 13-0689 LF 24" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	4.41	0.55
<i>For >500 To 1,500, Deduct</i>	-0.37	
<i>For >1,500 To 5,000, Deduct</i>	-0.75	
<i>For >5,000, Deduct</i>	-1.06	
<i>For Ground Installation, Deduct</i>	-0.44	
<i>For Double Coil (Helix), Add</i>	3.54	
32 31 13 13-0690 LF 24" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	6.64	0.55
<i>For >500 To 1,500, Deduct</i>	-0.56	
<i>For >1,500 To 5,000, Deduct</i>	-1.13	
<i>For >5,000, Deduct</i>	-1.59	
<i>For Ground Installation, Deduct</i>	-0.65	
<i>For Double Coil (Helix), Add</i>	5.34	
32 31 13 13-0691 LF 24" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	8.78	0.55
<i>For >500 To 1,500, Deduct</i>	-0.75	
<i>For >1,500 To 5,000, Deduct</i>	-1.49	
<i>For >5,000, Deduct</i>	-2.10	
<i>For Ground Installation, Deduct</i>	-0.87	
<i>For Double Coil (Helix), Add</i>	7.05	
32 31 13 13-0692 LF 30" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	12.27	0.55
<i>For >500 To 1,500, Deduct</i>	-0.97	
<i>For >1,500 To 5,000, Deduct</i>	-1.94	
<i>For >5,000, Deduct</i>	-2.65	
<i>For Ground Installation, Deduct</i>	-0.49	
<i>For Double Coil (Helix), Add</i>	11.29	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0693 LF 30" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	18.55	0.55
For >500 To 1,500, Deduct	-1.46	
For >1,500 To 5,000, Deduct	-2.93	
For >5,000, Deduct	-4.00	
For Ground Installation, Deduct	-0.73	
For Double Coil (Helix), Add	17.09	
32 31 13 13-0694 LF 30" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	24.54	0.55
For >500 To 1,500, Deduct	-1.94	
For >1,500 To 5,000, Deduct	-3.88	
For >5,000, Deduct	-5.30	
For Ground Installation, Deduct	-0.98	
For Double Coil (Helix), Add	22.58	
32 31 13 13-0695 Grounding For Gates (32 31 13 13-0667)		
Note: Includes two of each of the following per opening: 5/8 ground rods, clamps, braided straps and #6 bare copper wire.		
32 31 13 13-0696 OPN Grounding For Gates (Per Opening)	378.05	
32 31 13 13-0697 Coiled Spring Reinforcing Wire (32 31 13 13-0667)		
32 31 13 13-0698 Galvanized Steel (32 31 13 13-0697)		
32 31 13 13-0699 LF 7 Gauge, Galvanized Steel, Reinforcing Wire Coiled Spring	0.89	0.39
32 31 13 13-0700 Vinyl Coated Steel (32 31 13 13-0697)		
32 31 13 13-0701 LF 9 Gauge, Vinyl Coated Steel, Reinforcing Wire Coiled Spring	0.89	0.39
32 31 13 13-0702 Bending Of Fabric Around Pipe Railings (32 31 13 13-0667)		
Note: Only where specified.		
32 31 13 13-0703 LF Bend Chain Link Fence Fabric Around Pipe Railing, Top	1.25	
32 31 13 13-0704 LF Bend Chain Link Fence Fabric Around Pipe Railing, Bottom	1.09	
32 31 13 13-0705 Mounting Plate With Anchors Or Bolts (32 31 13 13-0667)		
Note: For drilling for anchor or bolts, installing post on or against flat surface.		
32 31 13 13-0706 EA Mounting Plate For 1-5/8" Diameter Post	29.77	
32 31 13 13-0707 EA Mounting Plate For 2" Diameter Post	30.20	
32 31 13 13-0708 EA Mounting Plate For 2-1/2" Diameter Post	31.13	
32 31 13 13-0709 EA Mounting Plate For 3" Diameter Post	37.10	
32 31 13 13-0710 EA Mounting Plate For 4" Diameter Post	42.40	
32 31 13 13-0711 EA Mounting Plate For 6-5/8" Diameter Post	48.78	
32 31 13 13-0712 EA Mounting Plate For 8-5/8" Diameter Post	57.17	
32 31 13 13-0713 Tension Bar (32 31 13 13-0667)		
32 31 13 13-0714 EA 3' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar	11.00	
32 31 13 13-0715 EA 3-1/2' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar	11.67	
32 31 13 13-0716 EA 4' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	13.96	
32 31 13 13-0717 EA 5' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	16.00	
32 31 13 13-0718 EA 6' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	18.64	
32 31 13 13-0719 EA 7' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	21.38	
32 31 13 13-0720 EA 8' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	24.11	
32 31 13 13-0721 EA 9' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	28.56	
32 31 13 13-0722 EA 10' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	34.11	
32 31 13 13-0723 Truss Rods (32 31 13 13-0667)		
32 31 13 13-0724 LF 3/8" Diameter Truss Rods	1.48	0.44
32 31 13 13-0725 Fence And Gate Repair And Replacement (32 31 13 13)		
32 31 13 13-0726 Fence And Gate Parts Replacement (32 31 13 13-0725)		
32 31 13 13-0727 EA Cantilever Roller Assembly, Ball Bearing With Fittings, Replacement	83.74	
32 31 13 13-0728 EA Sliding Gate Roller Assembly Replacement	84.74	
32 31 13 13-0729 EA Rod And Lock Gate Keeper Replacement	81.77	
32 31 13 13-0730 EA Galvanized Gate Holdback Replacement	20.04	
32 31 13 13-0731 LF 3/8" Cross Bracing Rod Replacement	1.09	
32 31 13 13-0732 LF 1-5/8" Diagonal Pipe Bracing Replacement	1.65	
32 31 13 13-0733 EA 2-3/8" Diameter Cast Steel Gate Hinge With Bolts, Replacement	20.16	
32 31 13 13-0734 EA 3" Diameter Cast Steel Gate Hinge With Bolts, Replacement	22.02	
32 31 13 13-0735 EA 4" Diameter Cast Steel Gate Hinge With Bolts, Replacement	24.24	
32 31 13 13-0736 EA 6-5/8" Diameter Cast Steel Gate Hinge With Bolts, Replacement	52.27	
32 31 13 13-0737 EA 8-5/8" Diameter Cast Steel Gate Hinge With Bolts, Replacement	64.11	
32 31 13 13-0738 EA 2-1/2" x 2" Off Set Gate Hinge Replacement	17.85	
32 31 13 13-0739 EA 3" x 2" Off Set Gate Hinge Replacement	18.68	
32 31 13 13-0740 EA 4" x 2" Off Set Gate Hinge Replacement	19.96	



		Exterior Improvements	32
		Site Improvements	32 30
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0741 EA 6-5/8" x 2" Off Set Gate Hinge Replacement.....	30.74	
32 31 13 13-0742 EA 8-5/8" x 2" Off Set Gate Hinge Replacement.....	46.57	
32 31 13 13-0743 EA 1-5/8" Aluminum Die-Cast Post Cap Replacement.....	4.29	
32 31 13 13-0744 EA 2" Aluminum Die-Cast Post Cap Replacement.....	4.70	
32 31 13 13-0745 EA 2-1/2" Aluminum Die-Cast Post Cap Replacement.....	5.41	
32 31 13 13-0746 EA 3" Aluminum Die-Cast Post Cap Replacement.....	6.23	
32 31 13 13-0747 EA 2" Galvanized Post Cap Replacement.....	4.81	
32 31 13 13-0748 EA 2-1/2" Galvanized Post Cap Replacement.....	5.23	
32 31 13 13-0749 EA 3" Galvanized Post Cap Replacement.....	5.96	
32 31 13 13-0750 EA 4" Galvanized Post Cap Replacement.....	8.36	
32 31 13 13-0751 EA 6-5/8" Galvanized Post Cap Replacement.....	14.41	
32 31 13 13-0752 EA 8-5/8" Galvanized Post Cap Replacement.....	23.05	
32 31 13 13-0753 EA 1-5/8" Boulevard Clamp Replacement.....	8.21	
32 31 13 13-0754 EA 2" Boulevard Clamp Replacement.....	9.98	
32 31 13 13-0755 EA 2-1/2" Boulevard Clamp Replacement.....	11.70	
32 31 13 13-0756 EA 3" Boulevard Clamp Replacement.....	14.20	
32 31 13 13-0757 EA 1-5/8" Gate Brace Or End Rail Clamp Replacement.....	8.09	
32 31 13 13-0758 EA 2" Gate Brace Or End Rail Clamp Replacement.....	9.81	
32 31 13 13-0759 EA 2-1/2" Gate Brace Or End Rail Clamp Replacement.....	11.53	
32 31 13 13-0760 EA 3" Gate Brace Or End Rail Clamp Replacement.....	14.02	
32 31 13 13-0761 EA 1-3/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	8.36	
32 31 13 13-0762 EA 1-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	8.41	
32 31 13 13-0763 EA 2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	8.56	
32 31 13 13-0764 EA 2-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	8.50	
32 31 13 13-0765 EA 3" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	8.60	
32 31 13 13-0766 EA 3-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	8.69	
32 31 13 13-0767 EA 4" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	8.95	
32 31 13 13-0768 EA 6-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	10.85	
32 31 13 13-0769	Remove And Reinstall Chain Link Fences (32 31 13 13)	
	Note: Includes removal, storage, cleaning and reinstallation of fence fabric, rails and other components. Excludes post work.	
32 31 13 13-0770 LF Removal And Reinstallation Of Chain Link Fence Up To 5' Height.....	15.67	
32 31 13 13-0771 LF Removal And Reinstallation Of Chain Link Fence 6' To 12' Height.....	23.49	
32 31 13 33	Chain Link Backstops (32 31 13)	
32 31 13 33-0001	Regulation Baseball Backstop (32 31 13 33)	
	See CSI section 32 31 13 13-0001 for auguring holes and concrete.	
32 31 13 33-0002 EA 20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Galvanized.....	8,142.22	1,585.48
32 31 13 33-0003 EA 34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Galvanized.....	11,663.26	2,113.98
32 31 13 33-0004 EA 48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Galvanized.....	14,756.43	2,466.31
32 31 13 33-0005 EA 20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Vinyl Coated.....	11,126.14	1,585.48
32 31 13 33-0006 EA 34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Vinyl Coated.....	16,128.14	2,113.98
32 31 13 33-0007 EA 48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Vinyl Coated.....	20,648.54	2,466.31
32 31 13 33-0008	Regulation Softball Backstop (32 31 13 33)	
	See CSI section 32 31 13 13-0001 for auguring holes and concrete.	
32 31 13 33-0009	14' High Softball Backstop (32 31 13 33-0008)	
	Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.	
32 31 13 33-0010 EA 14' Softball Backstop, Galvanized Regulation.....	7,085.65	1,583.43
32 31 13 33-0011 EA 14' Softball Backstop, Vinyl Coated Regulation.....	9,225.76	1,583.43
32 31 13 33-0012	18' High Softball Backstop (32 31 13 33-0008)	
	Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.	
32 31 13 33-0013 EA 18' Softball Backstop, Galvanized Regulation.....	8,226.62	1,760.34
32 31 13 33-0014 EA 18' Softball Backstop Vinyl Coated Regulation.....	10,815.46	1,760.34
32 31 13 33-0015	20' High Softball Backstop (32 31 13 33-0008)	
	Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.	
32 31 13 33-0016 EA 20' Softball Backstop, Galvanized Regulation.....	9,244.68	1,856.03
32 31 13 33-0017 EA 20' Softball Backstop, Vinyl Coated Regulation.....	12,316.81	1,856.03
32 31 13 33-0018	22' High Softball Backstop (32 31 13 33-0008)	
	Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.	
32 31 13 33-0019 EA 22' Softball Backstop, Galvanized Regulation.....	10,570.18	1,912.02
32 31 13 33-0020 EA 22' Softball Backstop, Vinyl Coated Regulation.....	14,263.61	1,912.02
32 31 13 33-0021	24' High Softball Backstop (32 31 13 33-0008)	
	Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 33-0022	EA	24' Softball Backstop, Galvanized Regulation.....	12,481.65	2,185.16
32 31	13 33-0023	EA	24' Softball Backstop, Vinyl Coated Regulation.....	17,072.54	2,185.16
32 31 16	Welded Wire Fences And Gates (32 31)				
32 31 16 00-0001	Welded Wire Fence (32 31 16)				
32 31 16 00-0002	12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh (32 31 16 00-0001) Note: Posts 5' on center.				
32 31 16 00-0003	LF		3' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	7.46	1.41
32 31 16 00-0004	LF		5' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	7.90	1.41
32 31 16 00-0005	14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh (32 31 16 00-0001) Note: Posts 5' on center.				
32 31 16 00-0006	LF		3' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	7.37	1.41
32 31 16 00-0007	LF		5' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	7.76	1.41
32 31 19	Decorative Metal Fences And Gates (32 31)				
See CSI section 32 31 13 13-0001 for drilling and grouting.					
32 31 19 00-0001	Wrought Iron Fence (32 31 19) Note: Factory primed.				
32 31 19 00-0002	Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center (32 31 19 00-0001) Note: Factory primed.				
32 31 19 00-0003	LF		3' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center.....	38.06	8.62
			For Verticals Up To 2" On Center, Add	4.17	
			For Verticals >2" To 2-1/2" On Center, Add	2.08	
			For Verticals >3" To 4" On Center, Deduct	-2.08	
			For Verticals >4" To 6" On Center, Deduct	-4.17	
32 31 19 00-0004	LF		4' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center.....	48.77	10.97
			For Verticals Up To 2" On Center, Add	5.52	
			For Verticals >2" To 2-1/2" On Center, Add	2.76	
			For Verticals >3" To 4" On Center, Deduct	-2.76	
			For Verticals >4" To 6" On Center, Deduct	-5.52	
32 31 19 00-0005	LF		5' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center.....	57.84	11.44
			For Verticals Up To 2" On Center, Add	6.96	
			For Verticals >2" To 2-1/2" On Center, Add	3.48	
			For Verticals >3" To 4" On Center, Deduct	-3.48	
			For Verticals >4" To 6" On Center, Deduct	-6.96	
32 31 19 00-0006	LF		6' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center.....	70.01	13.79
			For Verticals Up To 2" On Center, Add	8.48	
			For Verticals >2" To 2-1/2" On Center, Add	4.24	
			For Verticals >3" To 4" On Center, Deduct	-4.24	
			For Verticals >4" To 6" On Center, Deduct	-8.48	
32 31 19 00-0007	LF		7' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center.....	81.86	14.58
			For Verticals Up To 2" On Center, Add	10.54	
			For Verticals >2" To 2-1/2" On Center, Add	5.27	
			For Verticals >3" To 4" On Center, Deduct	-5.27	
			For Verticals >4" To 6" On Center, Deduct	-10.54	
32 31 19 00-0008	LF		8' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center.....	93.67	15.35
			For Verticals Up To 2" On Center, Add	12.59	
			For Verticals >2" To 2-1/2" On Center, Add	6.30	
			For Verticals >3" To 4" On Center, Deduct	-6.30	
			For Verticals >4" To 6" On Center, Deduct	-12.59	
32 31 19 00-0009	LF		10' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center.....	113.78	17.23
			For Verticals Up To 2" On Center, Add	15.86	
			For Verticals >2" To 2-1/2" On Center, Add	7.93	
			For Verticals >3" To 4" On Center, Deduct	-7.93	
			For Verticals >4" To 6" On Center, Deduct	-15.86	
32 31 19 00-0010	LF		12' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center.....	134.40	19.57
			For Verticals Up To 2" On Center, Add	19.05	
			For Verticals >2" To 2-1/2" On Center, Add	9.52	
			For Verticals >3" To 4" On Center, Deduct	-9.52	
			For Verticals >4" To 6" On Center, Deduct	-19.05	
32 31 19 00-0011	Wrought Iron Gates (32 31 19 00-0001) Note: Factory primed.				
32 31 19 00-0012	Single Wrought Iron Gates (32 31 19 00-0011) Note: Factory primed.				
32 31 19 00-0013	LF		3' Single Wrought Iron Gate, Hardware And Associated Trim.....	46.82	10.50
32 31 19 00-0014	LF		4' Single Wrought Iron Gate, Hardware And Associated Trim.....	61.44	13.00
32 31 19 00-0015	LF		5' Single Wrought Iron Gate, Hardware And Associated Trim.....	74.99	15.67
32 31 19 00-0016	LF		6' Single Wrought Iron Gate, Hardware And Associated Trim.....	91.11	18.79
32 31 19 00-0017	LF		8' Single Wrought Iron Gate, Hardware And Associated Trim.....	121.70	20.83
32 31 19 00-0018	LF		10' Single Wrought Iron Gate, Hardware And Associated Trim.....	147.06	23.02
32 31 19 00-0019	LF		12' Single Wrought Iron Gate, Hardware And Associated Trim.....	171.95	26.15
32 31 19 00-0020	Double Wrought Iron Gates (32 31 19 00-0011) Note: Factory primed.				



Exterior Improvements	32	32
Site Improvements	32 30	
Fences And Gates	32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0021	LF		3' Double Wrought Iron Gate, Hardware And Associated Trim.....	57.19	9.40
32 31 19 00-0022	LF		4' Double Wrought Iron Gate, Hardware And Associated Trim.....	75.04	11.75
32 31 19 00-0023	LF		5' Double Wrought Iron Gate, Hardware And Associated Trim.....	91.23	14.10
32 31 19 00-0024	LF		6' Double Wrought Iron Gate, Hardware And Associated Trim.....	110.52	16.92
32 31 19 00-0025	LF		8' Double Wrought Iron Gate, Hardware And Associated Trim.....	148.31	18.79
32 31 19 00-0026	LF		10' Double Wrought Iron Gate, Hardware And Associated Trim.....	179.51	20.67
32 31 19 00-0027	LF		12' Double Wrought Iron Gate, Hardware And Associated Trim.....	210.26	23.49
32 31 19 00-0028			Repair Or Replace Wrought Iron Fence (32 31 19 00-0001)		
32 31 19 00-0029	LF		Replace Wrought Iron Picket.....	15.25	
32 31 19 00-0030	LF		Replace Wrought Iron Post.....	22.68	
32 31 19 00-0031	EA		Straighten Wrought Iron Post.....	62.65	
32 31 19 00-0032			Steel Tube Fence, Powder Coated (32 31 19)		
			Note: Pickets are 3/4" square x 16 gauge.		
32 31 19 00-0033			Steel Tube Fence, 2 Rail (32 31 19 00-0032)		
32 31 19 00-0034	LF		3' Steel Tube Fence, Verticals At >2-1/2" To 3' On Center With 2-1/2" Square Posts.....	55.64	8.62
			For Verticals Up To 2" On Center, Add	7.75	
			For Verticals >2" To 2-1/2" On Center, Add	3.88	
			For Verticals >3" To 4" On Center, Deduct	-3.88	
			For Verticals >4" To 6" On Center, Deduct	-7.75	
			For Solid Pickets, Add	11.25	
			For Aluminum With Satin Finish, Add	9.09	
			For Third Rail, Add	2.91	
			For 1" Square x 14 Gauge Pickets, Add	9.69	
			For 3" Square Posts, Add	3.88	
32 31 19 00-0035	LF		3'-6" Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	59.53	9.21
			For Verticals Up To 2" On Center, Add	8.22	
			For Verticals >2" To 2-1/2" On Center, Add	4.11	
			For Verticals >3" To 4" On Center, Deduct	-4.11	
			For Verticals >4" To 6" On Center, Deduct	-8.22	
			For Solid Pickets, Add	12.01	
			For Aluminum With Satin Finish, Add	9.57	
			For Third Rail, Add	3.08	
			For 1" Square x 14 Gauge Pickets, Add	10.28	
			For 3" Square Posts, Add	4.11	
32 31 19 00-0036	LF		4' Steel Tube Fence, Verticals At >2-1/2" To 3' On Center With 2-1/2" Square Posts.....	62.99	10.18
			For Verticals Up To 2" On Center, Add	8.61	
			For Verticals >2" To 2-1/2" On Center, Add	4.30	
			For Verticals >3" To 4" On Center, Deduct	-4.30	
			For Verticals >4" To 6" On Center, Deduct	-8.61	
			For Solid Pickets, Add	12.68	
			For Aluminum With Satin Finish, Add	9.92	
			For Third Rail, Add	3.23	
			For 1" Square x 14 Gauge Pickets, Add	10.76	
			For 3" Square Posts, Add	4.30	
32 31 19 00-0037	LF		5' Steel Tube Fence, Verticals At >2-1/2" To 3' On Center With 2-1/2" Square Posts.....	67.14	11.44
			For Verticals Up To 2" On Center, Add	8.82	
			For Verticals >2" To 2-1/2" On Center, Add	4.41	
			For Verticals >3" To 4" On Center, Deduct	-4.41	
			For Verticals >4" To 6" On Center, Deduct	-8.82	
			For Solid Pickets, Add	13.38	
			For Aluminum With Satin Finish, Add	9.78	
			For Third Rail, Add	3.31	
			For 1" Square x 14 Gauge Pickets, Add	11.03	
			For 3" Square Posts, Add	4.41	
32 31 19 00-0038	LF		6' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	77.84	12.93
			For Verticals Up To 2" On Center, Add	10.40	
			For Verticals >2" To 2-1/2" On Center, Add	5.20	
			For Verticals >3" To 4" On Center, Deduct	-5.20	
			For Verticals >4" To 6" On Center, Deduct	-10.40	
			For Solid Pickets, Add	15.58	
			For Aluminum With Satin Finish, Add	11.72	
			For Third Rail, Add	3.90	
			For 1" Square x 14 Gauge Pickets, Add	13.00	
			For 3" Square Posts, Add	5.20	
32 31 19 00-0039	LF		7' Steel Tube Fence, Verticals At >2-1/2" To 3' On Center With 3" Square Posts.....	89.11	14.10
			For Verticals Up To 2" On Center, Add	12.18	
			For Verticals >2" To 2-1/2" On Center, Add	6.09	
			For Verticals >3" To 4" On Center, Deduct	-6.09	
			For Verticals >4" To 6" On Center, Deduct	-12.18	
			For Solid Pickets, Add	17.94	
			For Aluminum With Satin Finish, Add	14.05	
			For Third Rail, Add	4.57	
			For 1" Square x 14 Gauge Pickets, Add	15.23	
			For 4" Square Posts, Add	21.32	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0040	LF	8' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts..... <i>For Verticals Up To 2" On Center, Add</i> <i>For Verticals >2" To 2-1/2" On Center, Add</i> <i>For Verticals >3" To 4" On Center, Deduct</i> <i>For Verticals >4" To 6" On Center, Deduct</i> <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i> <i>For 4" Square Posts, Add</i>	100.54 13.97 6.98 -6.98 -13.97 20.32 16.35 5.24 17.46 24.44	15.35
32 31	19 00-0041	LF	9' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts..... <i>For Verticals Up To 2" On Center, Add</i> <i>For Verticals >2" To 2-1/2" On Center, Add</i> <i>For Verticals >3" To 4" On Center, Deduct</i> <i>For Verticals >4" To 6" On Center, Deduct</i> <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i> <i>For 4" Square Posts, Add</i>	116.87 16.80 8.40 -8.40 -16.80 23.83 20.26 6.30 21.00 29.39	16.45
32 31	19 00-0042	LF	10' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts..... <i>For Verticals Up To 2" On Center, Add</i> <i>For Verticals >2" To 2-1/2" On Center, Add</i> <i>For Verticals >3" To 4" On Center, Deduct</i> <i>For Verticals >4" To 6" On Center, Deduct</i> <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i> <i>For 6" Square Posts, Add</i>	133.36 19.62 9.81 -9.81 -19.62 27.36 24.15 7.36 24.53 34.34	17.63
32 31	19 00-0043	LF	12' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts..... <i>For Verticals Up To 2" On Center, Add</i> <i>For Verticals >2" To 2-1/2" On Center, Add</i> <i>For Verticals >3" To 4" On Center, Deduct</i> <i>For Verticals >4" To 6" On Center, Deduct</i> <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i> <i>For 6" Square Posts, Add</i>	157.07 23.58 11.79 -11.79 -23.58 32.40 29.50 8.84 29.48 41.27	19.57
32 31	19 00-0044	LF	14' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts..... <i>For Verticals Up To 2" On Center, Add</i> <i>For Verticals >2" To 2-1/2" On Center, Add</i> <i>For Verticals >3" To 4" On Center, Deduct</i> <i>For Verticals >4" To 6" On Center, Deduct</i> <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i> <i>For 6" Square Posts, Add</i>	168.25 25.19 12.60 -12.60 -25.19 34.68 31.44 9.45 31.49 44.09	21.14
32 31	19 00-0045		Steel Tube Swing Gates <small>(32 31 19 00-0032)</small>		
32 31	19 00-0046		3' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>		
32 31	19 00-0047	EA	3' Wide x 3' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	465.25 100.92 117.02 31.13 41.51	16.69
32 31	19 00-0048	EA	3'-6" Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	517.10 112.41 131.51 34.85 46.46	17.47
32 31	19 00-0049	EA	4' Wide x 3' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	571.98 124.53 146.57 38.73 51.64	18.48
32 31	19 00-0050	EA	5' Wide x 3' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	601.77 130.93 153.75 40.67 54.23	19.81
32 31	19 00-0051	EA	6' Wide x 3' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	673.15 146.11 169.87 45.14 60.19	23.73



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0052 EA 7' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	717.52	27.64
<i>For Solid Pickets, Add</i>	155.22	
<i>For Aluminum With Satin Finish, Add</i>	177.90	
<i>For Third Rail, Add</i>	47.59	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	63.45	
32 31 19 00-0053 EA 8' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	784.04	31.79
<i>For Solid Pickets, Add</i>	169.24	
<i>For Aluminum With Satin Finish, Add</i>	192.22	
<i>For Third Rail, Add</i>	51.64	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	68.85	
32 31 19 00-0054 EA 9' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	841.91	35.71
<i>For Solid Pickets, Add</i>	181.38	
<i>For Aluminum With Satin Finish, Add</i>	204.29	
<i>For Third Rail, Add</i>	55.10	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	73.46	
32 31 19 00-0055 EA 10' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	893.04	39.63
<i>For Solid Pickets, Add</i>	192.01	
<i>For Aluminum With Satin Finish, Add</i>	214.34	
<i>For Third Rail, Add</i>	58.05	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	77.40	
32 31 19 00-0056 EA 6' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	972.00	33.36
<i>For Solid Pickets, Add</i>	211.18	
<i>For Aluminum With Satin Finish, Add</i>	246.49	
<i>For Third Rail, Add</i>	65.38	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	87.18	
32 31 19 00-0057 EA 7' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,035.32	34.93
<i>For Solid Pickets, Add</i>	225.08	
<i>For Aluminum With Satin Finish, Add</i>	263.37	
<i>For Third Rail, Add</i>	69.78	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	93.04	
32 31 19 00-0058 EA 8' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,143.96	37.04
<i>For Solid Pickets, Add</i>	249.05	
<i>For Aluminum With Satin Finish, Add</i>	293.14	
<i>For Third Rail, Add</i>	77.46	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	103.28	
32 31 19 00-0059 EA 9' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,198.50	38.37
<i>For Solid Pickets, Add</i>	261.03	
<i>For Aluminum With Satin Finish, Add</i>	307.75	
<i>For Third Rail, Add</i>	81.25	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	108.34	
32 31 19 00-0060 EA 10' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,242.92	39.63
<i>For Solid Pickets, Add</i>	270.73	
<i>For Aluminum With Satin Finish, Add</i>	319.31	
<i>For Third Rail, Add</i>	84.29	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	112.39	
32 31 19 00-0061 EA 12' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,400.28	47.46
<i>For Solid Pickets, Add</i>	304.37	
<i>For Aluminum With Satin Finish, Add</i>	355.95	
<i>For Third Rail, Add</i>	94.33	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	125.78	
32 31 19 00-0062 EA 14' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,536.27	55.29
<i>For Solid Pickets, Add</i>	333.21	
<i>For Aluminum With Satin Finish, Add</i>	386.17	
<i>For Third Rail, Add</i>	102.77	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	137.03	
32 31 19 00-0063 EA 16' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,651.34	63.67
<i>For Solid Pickets, Add</i>	357.22	
<i>For Aluminum With Satin Finish, Add</i>	409.41	
<i>For Third Rail, Add</i>	109.52	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	146.03	
32 31 19 00-0064 EA 18' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,747.96	71.42
<i>For Solid Pickets, Add</i>	377.20	
<i>For Aluminum With Satin Finish, Add</i>	427.83	
<i>For Third Rail, Add</i>	115.00	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	153.34	
32 31 19 00-0065 EA 20' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,827.69	79.26
<i>For Solid Pickets, Add</i>	393.38	
<i>For Aluminum With Satin Finish, Add</i>	441.18	
<i>For Third Rail, Add</i>	119.22	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	158.96	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0066			4' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0067	EA		3' Wide x 4' High Steel Tube Single Swing Gate.....	536.62	15.67
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	116.77	
			For Aluminum With Satin Finish, Add	137.19	
			For Third Rail, Add	36.28	
			For 1" Square x 14 Gauge Pickets, Add	48.38	
32 31 19 00-0068	EA		3'-6" Wide x 4' High Steel Tube Single Swing Gate	580.20	18.24
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	126.43	
			For Aluminum With Satin Finish, Add	149.39	
			For Third Rail, Add	39.40	
			For 1" Square x 14 Gauge Pickets, Add	52.54	
32 31 19 00-0069	EA		4' Wide x 4' High Steel Tube Single Swing Gate.....	625.73	19.57
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	136.38	
			For Aluminum With Satin Finish, Add	161.29	
			For Third Rail, Add	42.53	
			For 1" Square x 14 Gauge Pickets, Add	56.70	
32 31 19 00-0070	EA		5' Wide x 4' High Steel Tube Single Swing Gate.....	663.40	20.83
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	144.57	
			For Aluminum With Satin Finish, Add	170.83	
			For Third Rail, Add	45.06	
			For 1" Square x 14 Gauge Pickets, Add	60.08	
32 31 19 00-0071	EA		6' Wide x 4' High Steel Tube Single Swing Gate.....	716.43	25.06
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	155.56	
			For Aluminum With Satin Finish, Add	181.10	
			For Third Rail, Add	48.09	
			For 1" Square x 14 Gauge Pickets, Add	64.13	
32 31 19 00-0072	EA		7' Wide x 4' High Steel Tube Single Swing Gate.....	787.47	29.21
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	170.60	
			For Aluminum With Satin Finish, Add	196.77	
			For Third Rail, Add	52.48	
			For 1" Square x 14 Gauge Pickets, Add	69.98	
32 31 19 00-0073	EA		8' Wide x 4' High Steel Tube Single Swing Gate.....	884.36	33.36
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	191.46	
			For Aluminum With Satin Finish, Add	220.20	
			For Third Rail, Add	58.81	
			For 1" Square x 14 Gauge Pickets, Add	78.41	
32 31 19 00-0074	EA		9' Wide x 4' High Steel Tube Single Swing Gate.....	979.02	37.59
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	211.82	
			For Aluminum With Satin Finish, Add	242.96	
			For Third Rail, Add	64.97	
			For 1" Square x 14 Gauge Pickets, Add	86.63	
32 31 19 00-0075	EA		10' Wide x 4' High Steel Tube Single Swing Gate.....	1,069.18	41.74
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	231.17	
			For Aluminum With Satin Finish, Add	264.37	
			For Third Rail, Add	70.79	
			For 1" Square x 14 Gauge Pickets, Add	94.39	
32 31 19 00-0076	EA		6' Wide x 4' High Steel Tube Double Swing Gate	1,073.22	35.24
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	233.55	
			For Aluminum With Satin Finish, Add	274.39	
			For Third Rail, Add	72.56	
			For 1" Square x 14 Gauge Pickets, Add	96.75	
32 31 19 00-0077	EA		7' Wide x 4' High Steel Tube Double Swing Gate	1,160.39	36.49
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	252.86	
			For Aluminum With Satin Finish, Add	298.78	
			For Third Rail, Add	78.81	
			For 1" Square x 14 Gauge Pickets, Add	105.08	
32 31 19 00-0078	EA		8' Wide x 4' High Steel Tube Double Swing Gate	1,251.47	39.16
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	272.77	
			For Aluminum With Satin Finish, Add	322.58	
			For Third Rail, Add	85.05	
			For 1" Square x 14 Gauge Pickets, Add	113.40	
32 31 19 00-0079	EA		9' Wide x 4' High Steel Tube Double Swing Gate	1,322.89	40.41
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	288.55	
			For Aluminum With Satin Finish, Add	342.24	
			For Third Rail, Add	90.11	
			For 1" Square x 14 Gauge Pickets, Add	120.15	
32 31 19 00-0080	EA		10' Wide x 4' High Steel Tube Double Swing Gate	1,383.05	41.74
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	301.79	
			For Aluminum With Satin Finish, Add	358.53	
			For Third Rail, Add	94.33	
			For 1" Square x 14 Gauge Pickets, Add	125.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0081 EA 12' Wide x 4' High Steel Tube Double Swing Gate.....	1,571.25	50.05
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	342.25	
<i>For Aluminum With Satin Finish, Add</i>	403.71	
<i>For Third Rail, Add</i>	106.57	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	142.09	
32 31 19 00-0082 EA 14' Wide x 4' High Steel Tube Double Swing Gate.....	1,736.92	58.42
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	377.65	
<i>For Aluminum With Satin Finish, Add</i>	442.14	
<i>For Third Rail, Add</i>	117.11	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	156.15	
32 31 19 00-0083 EA 16' Wide x 4' High Steel Tube Double Swing Gate.....	1,881.23	66.72
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	408.24	
<i>For Aluminum With Satin Finish, Add</i>	474.15	
<i>For Third Rail, Add</i>	126.06	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	168.08	
32 31 19 00-0084 EA 18' Wide x 4' High Steel Tube Double Swing Gate.....	2,006.43	75.10
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	434.53	
<i>For Aluminum With Satin Finish, Add</i>	500.43	
<i>For Third Rail, Add</i>	133.57	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	178.09	
32 31 19 00-0085 EA 20' Wide x 4' High Steel Tube Double Swing Gate.....	2,113.61	83.49
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	456.77	
<i>For Aluminum With Satin Finish, Add</i>	521.31	
<i>For Third Rail, Add</i>	139.73	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	186.30	
32 31 19 00-0086 5' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>		
32 31 19 00-0087 EA 3' Wide x 5' High Steel Tube Single Swing Gate.....	583.57	18.24
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	127.19	
<i>For Aluminum With Satin Finish, Add</i>	150.40	
<i>For Third Rail, Add</i>	39.66	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	52.88	
32 31 19 00-0088 EA 3'-6" Wide x 5' High Steel Tube Single Swing Gate.....	615.61	19.57
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	134.11	
<i>For Aluminum With Satin Finish, Add</i>	158.25	
<i>For Third Rail, Add</i>	41.77	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	55.69	
32 31 19 00-0089 EA 4' Wide x 5' High Steel Tube Single Swing Gate.....	646.53	20.83
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	140.77	
<i>For Aluminum With Satin Finish, Add</i>	165.77	
<i>For Third Rail, Add</i>	43.79	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	58.39	
32 31 19 00-0090 EA 5' Wide x 5' High Steel Tube Single Swing Gate.....	690.95	22.16
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	150.47	
<i>For Aluminum With Satin Finish, Add</i>	177.33	
<i>For Third Rail, Add</i>	46.83	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	62.44	
32 31 19 00-0091 EA 6' Wide x 5' High Steel Tube Single Swing Gate.....	752.63	26.62
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	163.35	
<i>For Aluminum With Satin Finish, Add</i>	189.84	
<i>For Third Rail, Add</i>	50.46	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	67.28	
32 31 19 00-0092 EA 7' Wide x 5' High Steel Tube Single Swing Gate.....	833.44	31.01
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	180.53	
<i>For Aluminum With Satin Finish, Add</i>	208.10	
<i>For Third Rail, Add</i>	55.52	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	74.03	
32 31 19 00-0093 EA 8' Wide x 5' High Steel Tube Single Swing Gate.....	945.41	35.71
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	204.67	
<i>For Aluminum With Satin Finish, Add</i>	235.34	
<i>For Third Rail, Add</i>	62.86	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	83.81	
32 31 19 00-0094 EA 9' Wide x 5' High Steel Tube Single Swing Gate.....	1,054.35	40.18
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	228.18	
<i>For Aluminum With Satin Finish, Add</i>	262.04	
<i>For Third Rail, Add</i>	70.03	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	93.38	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0095	EA		10' Wide x 5' High Steel Tube Single Swing Gate.....	1,161.04	44.56
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	251.19	
			For Aluminum With Satin Finish, Add	288.05	
			For Third Rail, Add	77.03	
			For 1" Square x 14 Gauge Pickets, Add	102.71	
32 31 19 00-0096	EA		6' Wide x 5' High Steel Tube Double Swing Gate.....	1,145.37	30.78
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	251.12	
			For Aluminum With Satin Finish, Add	304.07	
			For Third Rail, Add	79.31	
			For 1" Square x 14 Gauge Pickets, Add	105.75	
32 31 19 00-0097	EA		7' Wide x 5' High Steel Tube Double Swing Gate.....	1,215.13	35.87
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	265.72	
			For Aluminum With Satin Finish, Add	318.41	
			For Third Rail, Add	83.45	
			For 1" Square x 14 Gauge Pickets, Add	111.26	
32 31 19 00-0098	EA		8' Wide x 5' High Steel Tube Double Swing Gate.....	1,285.77	41.27
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	280.45	
			For Aluminum With Satin Finish, Add	332.62	
			For Third Rail, Add	87.58	
			For 1" Square x 14 Gauge Pickets, Add	116.78	
32 31 19 00-0099	EA		9' Wide x 5' High Steel Tube Double Swing Gate.....	1,381.41	46.44
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	300.87	
			For Aluminum With Satin Finish, Add	354.73	
			For Third Rail, Add	93.66	
			For 1" Square x 14 Gauge Pickets, Add	124.88	
32 31 19 00-0100	EA		10' Wide x 5' High Steel Tube Double Swing Gate.....	1,465.81	51.54
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	318.76	
			For Aluminum With Satin Finish, Add	373.45	
			For Third Rail, Add	98.89	
			For 1" Square x 14 Gauge Pickets, Add	131.85	
32 31 19 00-0101	EA		12' Wide x 5' High Steel Tube Double Swing Gate.....	1,667.79	57.32
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	362.98	
			For Aluminum With Satin Finish, Add	426.69	
			For Third Rail, Add	112.81	
			For 1" Square x 14 Gauge Pickets, Add	150.41	
32 31 19 00-0102	EA		14' Wide x 5' High Steel Tube Double Swing Gate.....	1,850.15	63.59
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	402.65	
			For Aluminum With Satin Finish, Add	473.25	
			For Third Rail, Add	125.13	
			For 1" Square x 14 Gauge Pickets, Add	166.84	
32 31 19 00-0103	EA		16' Wide x 5' High Steel Tube Double Swing Gate.....	2,013.96	70.56
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	438.02	
			For Aluminum With Satin Finish, Add	513.48	
			For Third Rail, Add	135.93	
			For 1" Square x 14 Gauge Pickets, Add	181.24	
32 31 19 00-0104	EA		18' Wide x 5' High Steel Tube Double Swing Gate.....	2,162.36	78.39
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	469.73	
			For Aluminum With Satin Finish, Add	547.92	
			For Third Rail, Add	145.38	
			For 1" Square x 14 Gauge Pickets, Add	193.84	
32 31 19 00-0105	EA		20' Wide x 5' High Steel Tube Double Swing Gate.....	2,295.34	87.17
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	497.78	
			For Aluminum With Satin Finish, Add	576.57	
			For Third Rail, Add	153.48	
			For 1" Square x 14 Gauge Pickets, Add	204.64	
32 31 19 00-0106			6' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>		
32 31 19 00-0107	EA		3' Wide x 6' High Steel Tube Single Swing Gate.....	608.18	20.04
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	132.32	
			For Aluminum With Satin Finish, Add	155.32	
			For Third Rail, Add	41.09	
			For 1" Square x 14 Gauge Pickets, Add	54.79	
32 31 19 00-0108	EA		3'-6" Wide x 6' High Steel Tube Single Swing Gate.....	639.43	21.14
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	139.11	
			For Aluminum With Satin Finish, Add	163.29	
			For Third Rail, Add	43.20	
			For 1" Square x 14 Gauge Pickets, Add	57.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0109 EA 4' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	671.25	22.32
<i>For Solid Pickets, Add</i>	146.00	
<i>For Aluminum With Satin Finish, Add</i>	171.17	
<i>For Third Rail, Add</i>	45.31	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	60.41	
32 31 19 00-0110 EA 5' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	710.28	23.73
<i>For Solid Pickets, Add</i>	154.47	
<i>For Aluminum With Satin Finish, Add</i>	181.01	
<i>For Third Rail, Add</i>	47.93	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	63.90	
32 31 19 00-0111 EA 6' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	798.27	28.66
<i>For Solid Pickets, Add</i>	173.15	
<i>For Aluminum With Satin Finish, Add</i>	200.71	
<i>For Third Rail, Add</i>	53.41	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	71.21	
32 31 19 00-0112 EA 7' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	891.90	33.67
<i>For Solid Pickets, Add</i>	193.10	
<i>For Aluminum With Satin Finish, Add</i>	222.11	
<i>For Third Rail, Add</i>	59.32	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	79.09	
32 31 19 00-0113 EA 8' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	995.99	38.37
<i>For Solid Pickets, Add</i>	215.46	
<i>For Aluminum With Satin Finish, Add</i>	247.00	
<i>For Third Rail, Add</i>	66.07	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	88.09	
32 31 19 00-0114 EA 9' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,096.39	43.31
<i>For Solid Pickets, Add</i>	236.94	
<i>For Aluminum With Satin Finish, Add</i>	270.41	
<i>For Third Rail, Add</i>	72.48	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	96.64	
32 31 19 00-0115 EA 10' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,218.12	48.25
<i>For Solid Pickets, Add</i>	263.21	
<i>For Aluminum With Satin Finish, Add</i>	300.24	
<i>For Third Rail, Add</i>	80.49	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	107.33	
32 31 19 00-0116 EA 6' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,190.51	33.20
<i>For Solid Pickets, Add</i>	260.76	
<i>For Aluminum With Satin Finish, Add</i>	314.51	
<i>For Third Rail, Add</i>	82.18	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	109.58	
32 31 19 00-0117 EA 7' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,263.13	38.92
<i>For Solid Pickets, Add</i>	275.87	
<i>For Aluminum With Satin Finish, Add</i>	328.93	
<i>For Third Rail, Add</i>	86.40	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	115.20	
32 31 19 00-0118 EA 8' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,334.88	44.33
<i>For Solid Pickets, Add</i>	290.85	
<i>For Aluminum With Satin Finish, Add</i>	343.48	
<i>For Third Rail, Add</i>	90.62	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	120.83	
32 31 19 00-0119 EA 9' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,421.00	50.05
<i>For Solid Pickets, Add</i>	309.00	
<i>For Aluminum With Satin Finish, Add</i>	361.95	
<i>For Third Rail, Add</i>	95.85	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	127.80	
32 31 19 00-0120 EA 10' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,554.37	55.76
<i>For Solid Pickets, Add</i>	337.78	
<i>For Aluminum With Satin Finish, Add</i>	394.59	
<i>For Third Rail, Add</i>	104.63	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	139.50	
32 31 19 00-0121 EA 12' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,821.08	62.10
<i>For Solid Pickets, Add</i>	396.43	
<i>For Aluminum With Satin Finish, Add</i>	466.47	
<i>For Third Rail, Add</i>	123.27	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	164.36	
32 31 19 00-0122 EA 14' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,909.25	69.39
<i>For Solid Pickets, Add</i>	414.72	
<i>For Aluminum With Satin Finish, Add</i>	483.62	
<i>For Third Rail, Add</i>	128.33	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	171.11	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0123	EA	16' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,097.04	77.22
			<i>For Solid Pickets, Add</i>	455.29	
			<i>For Aluminum With Satin Finish, Add</i>	529.87	
			<i>For Third Rail, Add</i>	140.74	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	187.65	
32 31	19 00-0124	EA	18' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,270.52	85.92
			<i>For Solid Pickets, Add</i>	492.45	
			<i>For Aluminum With Satin Finish, Add</i>	570.67	
			<i>For Third Rail, Add</i>	151.88	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	202.50	
32 31	19 00-0125	EA	20' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,432.82	95.85
			<i>For Solid Pickets, Add</i>	526.84	
			<i>For Aluminum With Satin Finish, Add</i>	606.57	
			<i>For Third Rail, Add</i>	161.92	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	215.89	
32 31	19 00-0126		7' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>		
32 31	19 00-0127	EA	3' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	644.61	21.69
			<i>For Solid Pickets, Add</i>	140.15	
			<i>For Aluminum With Satin Finish, Add</i>	164.03	
			<i>For Third Rail, Add</i>	43.45	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	57.94	
32 31	19 00-0128	EA	3'-6" Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	677.30	22.86
			<i>For Solid Pickets, Add</i>	147.24	
			<i>For Aluminum With Satin Finish, Add</i>	172.28	
			<i>For Third Rail, Add</i>	45.65	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	60.86	
32 31	19 00-0129	EA	4' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	710.18	24.04
			<i>For Solid Pickets, Add</i>	154.37	
			<i>For Aluminum With Satin Finish, Add</i>	180.52	
			<i>For Third Rail, Add</i>	47.84	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	63.79	
32 31	19 00-0130	EA	5' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	743.09	25.29
			<i>For Solid Pickets, Add</i>	161.50	
			<i>For Aluminum With Satin Finish, Add</i>	188.74	
			<i>For Third Rail, Add</i>	50.03	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	66.71	
32 31	19 00-0131	EA	6' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	860.79	30.78
			<i>For Solid Pickets, Add</i>	186.75	
			<i>For Aluminum With Satin Finish, Add</i>	216.65	
			<i>For Third Rail, Add</i>	57.63	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	76.84	
32 31	19 00-0132	EA	7' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	968.69	36.02
			<i>For Solid Pickets, Add</i>	209.85	
			<i>For Aluminum With Satin Finish, Add</i>	241.98	
			<i>For Third Rail, Add</i>	64.55	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	86.06	
32 31	19 00-0133	EA	8' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,048.14	41.43
			<i>For Solid Pickets, Add</i>	226.49	
			<i>For Aluminum With Satin Finish, Add</i>	258.41	
			<i>For Third Rail, Add</i>	69.27	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	92.36	
32 31	19 00-0134	EA	9' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,138.06	46.68
			<i>For Solid Pickets, Add</i>	245.55	
			<i>For Aluminum With Satin Finish, Add</i>	278.34	
			<i>For Third Rail, Add</i>	74.84	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	99.79	
32 31	19 00-0135	EA	10' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,247.88	52.16
			<i>For Solid Pickets, Add</i>	269.03	
			<i>For Aluminum With Satin Finish, Add</i>	303.88	
			<i>For Third Rail, Add</i>	81.84	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	109.13	
32 31	19 00-0136	EA	6' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,260.40	35.55
			<i>For Solid Pickets, Add</i>	275.97	
			<i>For Aluminum With Satin Finish, Add</i>	332.38	
			<i>For Third Rail, Add</i>	86.91	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	115.88	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences And Gates	32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0137	EA	7' Wide x 7' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,336.14 291.71 347.34 91.29 121.73	41.59
32 31	19 00-0138	EA	8' Wide x 7' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,412.72 307.59 362.18 95.68 127.58	47.93
32 31	19 00-0139	EA	9' Wide x 7' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,489.58 323.59 377.48 100.15 133.54	53.95
32 31	19 00-0140	EA	10' Wide x 7' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,677.54 364.52 425.73 112.89 150.53	60.30
32 31	19 00-0141	EA	12' Wide x 7' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,024.73 441.16 520.97 137.45 183.26	67.27
32 31	19 00-0142	EA	14' Wide x 7' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,007.49 435.53 505.33 134.41 179.21	75.42
32 31	19 00-0143	EA	16' Wide x 7' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,176.47 471.68 544.78 145.21 193.61	84.11
32 31	19 00-0144	EA	18' Wide x 7' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,378.15 514.93 592.50 158.20 210.94	94.05
32 31	19 00-0145	EA	20' Wide x 7' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,513.79 543.12 619.23 166.05 221.40	104.94
32 31	19 00-0146		8' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31	19 00-0147	EA	3' Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	700.48 152.32 178.43 47.25 63.00	23.49
32 31	19 00-0148	EA	3'-6" Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	734.78 159.75 186.95 49.53 66.04	24.74
32 31	19 00-0149	EA	4' Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	771.32 167.67 196.15 51.98 69.30	26.08
32 31	19 00-0150	EA	5' Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	805.08 174.59 202.23 53.83 71.78	29.05

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0151	EA	6' Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	951.42	32.89
			<i>For Solid Pickets, Add</i>	206.67	
			<i>For Aluminum With Satin Finish, Add</i>	241.02	
			<i>For Third Rail, Add</i>	63.96	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	85.28	
32 31	19 00-0152	EA	7' Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,060.66	39.63
			<i>For Solid Pickets, Add</i>	229.72	
			<i>For Aluminum With Satin Finish, Add</i>	264.63	
			<i>For Third Rail, Add</i>	70.62	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	94.16	
32 31	19 00-0153	EA	8' Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,110.62	46.13
			<i>For Solid Pickets, Add</i>	239.49	
			<i>For Aluminum With Satin Finish, Add</i>	270.81	
			<i>For Third Rail, Add</i>	72.90	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	97.20	
32 31	19 00-0154	EA	9' Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,192.86	52.95
			<i>For Solid Pickets, Add</i>	256.47	
			<i>For Aluminum With Satin Finish, Add</i>	286.32	
			<i>For Third Rail, Add</i>	77.54	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	103.39	
32 31	19 00-0155	EA	10' Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,264.95	59.75
			<i>For Solid Pickets, Add</i>	271.16	
			<i>For Aluminum With Satin Finish, Add</i>	298.79	
			<i>For Third Rail, Add</i>	81.42	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	108.56	
32 31	19 00-0156	EA	6' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	1,369.66	37.98
			<i>For Solid Pickets, Add</i>	300.03	
			<i>For Aluminum With Satin Finish, Add</i>	362.06	
			<i>For Third Rail, Add</i>	94.58	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	126.11	
32 31	19 00-0157	EA	7' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	1,455.06	45.82
			<i>For Solid Pickets, Add</i>	317.57	
			<i>For Aluminum With Satin Finish, Add</i>	377.60	
			<i>For Third Rail, Add</i>	99.31	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	132.41	
32 31	19 00-0158	EA	8' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	1,538.48	53.34
			<i>For Solid Pickets, Add</i>	334.72	
			<i>For Aluminum With Satin Finish, Add</i>	392.93	
			<i>For Third Rail, Add</i>	103.95	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	138.60	
32 31	19 00-0159	EA	9' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	1,609.26	61.24
			<i>For Solid Pickets, Add</i>	348.97	
			<i>For Aluminum With Satin Finish, Add</i>	404.08	
			<i>For Third Rail, Add</i>	107.58	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	143.44	
32 31	19 00-0160	EA	10' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	1,869.02	69.07
			<i>For Solid Pickets, Add</i>	405.73	
			<i>For Aluminum With Satin Finish, Add</i>	471.93	
			<i>For Third Rail, Add</i>	125.38	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	167.18	
32 31	19 00-0161	EA	12' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,324.88	77.77
			<i>For Solid Pickets, Add</i>	506.43	
			<i>For Aluminum With Satin Finish, Add</i>	597.45	
			<i>For Third Rail, Add</i>	157.70	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	210.26	
32 31	19 00-0162	EA	14' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,135.07	87.72
			<i>For Solid Pickets, Add</i>	461.59	
			<i>For Aluminum With Satin Finish, Add</i>	527.71	
			<i>For Third Rail, Add</i>	141.33	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	188.44	
32 31	19 00-0163	EA	16' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,289.30	99.22
			<i>For Solid Pickets, Add</i>	493.84	
			<i>For Aluminum With Satin Finish, Add</i>	559.25	
			<i>For Third Rail, Add</i>	150.44	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	200.59	
32 31	19 00-0164	EA	18' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,524.60	111.83
			<i>For Solid Pickets, Add</i>	544.07	
			<i>For Aluminum With Satin Finish, Add</i>	613.56	
			<i>For Third Rail, Add</i>	165.38	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	220.50	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0165	EA		20' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,583.09 554.19 612.89 166.73 222.30	126.00
32 31 19 00-0166			Replace Steel Tube Fence Pickets (32 31 19 00-0032)		
32 31 19 00-0167	LF		Replace 3/4" Square x 16 Gauge Steel Tube Fence Picket <i>For 1" Square x 14 Gauge Pickets, Add</i>	22.29 0.66	
32 31 19 00-0168			Remove And Reinstall Ornamental Fences (32 31 19) Note: Removal and reinstallation of fences including storage and cleaning. Excludes augering and concrete.		
32 31 19 00-0169	LF		Removal And Reinstallation Of Ornamental Fence Up To 5' Height.....	35.24	
32 31 19 00-0170	LF		Removal And Reinstallation Of Ornamental Fence, 6' Height	38.77	
32 31 19 00-0171	LF		Removal And Reinstallation Of Ornamental Fence, 7' Height	42.29	
32 31 19 00-0172	LF		Removal And Reinstallation Of Ornamental Fence, 8' Height	45.82	
32 31 19 00-0173	LF		Removal And Reinstallation Of Ornamental Fence, 9' Height	49.34	
32 31 19 00-0174	LF		Removal And Reinstallation Of Ornamental Fence, 10' Height	52.87	
32 31 19 00-0175	LF		Removal And Reinstallation Of Ornamental Fence 12' Height	58.73	
32 31 23			Plastic Fences And Gates (32 31)		
32 31 23 00-0001			Vinyl Fence (32 31 23)		
32 31 23 00-0002			Privacy Tongue And Groove Vinyl Fence (32 31 23 00-0001) Note: With 1-1/2" x 5-1/2" top and bottom rails, 5" x 5" posts installed 7' centers. Posts include flat cap.		
32 31 23 00-0003	LF		3' High Privacy Tongue And Groove Vinyl Fence	34.83	4.83
32 31 23 00-0004	LF		4' High Privacy Tongue And Groove Vinyl Fence	39.27	5.79
32 31 23 00-0005	LF		5' High Privacy Tongue And Groove Vinyl Fence	44.02	6.76
32 31 23 00-0006	LF		6' High Privacy Tongue And Groove Vinyl Fence	48.68	7.72
32 31 23 00-0007			Semi-Privacy 6" Picket Vinyl Fence (32 31 23 00-0001) Note: With 1-1/2" x 5-1/2" top and bottom rails, 2" x 3-1/2" mid rail, 5" x 5" posts installed 6' centers. Posts include flat cap.		
32 31 23 00-0008	LF		5' High Semi-Privacy 6" Picket Vinyl Fence.....	46.85	6.76
32 31 23 00-0009	LF		6' High Semi-Privacy 6" Picket Vinyl Fence.....	51.55	7.72
32 31 23 00-0010			Picket Straight Top Vinyl Fence (32 31 23 00-0001) Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Posts include flat cap.		
32 31 23 00-0011	LF		3' High Picket Straight Top Vinyl Fence.....	32.33	4.83
32 31 23 00-0012	LF		4' High Picket Straight Top Vinyl Fence.....	36.90	5.79
32 31 23 00-0013	LF		5' High Picket Straight Top Vinyl Fence.....	42.36	6.76
32 31 23 00-0014	LF		6' High Picket Straight Top Vinyl Fence.....	47.06	7.72
32 31 23 00-0015			Picket Scalloped Top Vinyl Fence (32 31 23 00-0001) Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Posts include flat cap.		
32 31 23 00-0016	LF		3' High Picket Scalloped Top Vinyl Fence	35.55	4.83
32 31 23 00-0017	LF		4' High Picket Scalloped Top Vinyl Fence	40.21	5.79
32 31 23 00-0018	LF		5' High Picket Scalloped Top Vinyl Fence	45.46	6.76
32 31 23 00-0019	LF		6' High Picket Scalloped Top Vinyl Fence	50.26	7.72
32 31 23 00-0020			Post And Rail Vinyl Fence, Ranch Style (32 31 23 00-0001) Note: With 1-1/2" x 5-1/2" rails, 5" x 5" posts installed 8' centers. Posts include flat cap.		
32 31 23 00-0021	LF		5' High, 2 Rail, Post And Rail Vinyl Fence	14.74	4.83
32 31 23 00-0022	LF		6-1/2' High, 3 Rail, Post And Rail Vinyl Fence	18.69	5.79
32 31 23 00-0023	LF		7' High, 4 Rail, Post And Rail Vinyl Fence	21.30	6.27
32 31 23 00-0024			Post, Rails And Pickets (Traditional Style) Vinyl Fence (32 31 23 00-0001) Note: With top and bottom 3" x 3" rails, 5" x 5" posts and 1-1/2" x 1-1/2" pickets. Posts include flat cap.		
32 31 23 00-0025	LF		3' High Rail And Picket Vinyl Fence, 72" On Center Posts.....	41.44	5.31
32 31 23 00-0026	LF		4' High Rail And Picket Vinyl Fence, 72" On Center Posts.....	45.54	6.27
32 31 23 00-0027	LF		3' High Rail And Picket Vinyl Fence, 96" On Center Posts.....	38.98	4.83
32 31 23 00-0028	LF		4' High Rail And Picket Vinyl Fence, 96" On Center Posts.....	42.72	5.79
32 31 23 00-0029			Vinyl Gates (32 31 23)		
32 31 23 00-0030			Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0029) Note: Includes hinges.		
32 31 23 00-0031			3' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0032 EA 3' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	382.50	48.25
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0033 EA 3' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	405.57	50.66
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0034 EA 3' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	443.56	53.07
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0035 EA 3' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	494.80	55.49
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0036 4' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0037 EA 4' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	405.57	50.66
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0038 EA 4' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	420.35	53.07
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0039 EA 4' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	464.95	55.49
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0040 EA 4' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	541.08	57.90
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0041 5' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0042 EA 5' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	420.35	53.07
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0043 EA 5' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	438.43	55.49
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0044 EA 5' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	499.63	57.90
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0045 EA 5' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	579.07	60.31
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0046 6' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0047 EA 6' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	443.26	57.90
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0048 EA 6' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	461.35	60.31
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0049 EA 6' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	550.73	62.73
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0050 EA 6' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	605.30	62.73
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0051 Gates For Picket Fences (32 31 23 00-0029)		
Note: Includes hinges.		
32 31 23 00-0052 3' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0053 EA 3' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	367.58	48.25
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0054 EA 3' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	382.36	50.66
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0055 EA 3' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	426.98	53.07
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0056 EA 3' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	503.09	55.49
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0057 4' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0058 EA 4' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	372.41	50.66
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0059 EA 4' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	387.19	53.07
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0060 EA 4' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i>	431.79 14.50	55.49
	<i>For Self-Closing Stainless Steel Hinge Set, Add</i>	
	38.50	
32 31 23 00-0061 EA 4' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i>	507.92 14.50	57.90
	<i>For Self-Closing Stainless Steel Hinge Set, Add</i>	
	38.50	
32 31 23 00-0062 5' High Gates For Picket Fences <small>(32 31 23 00-0051)</small>		
32 31 23 00-0063 EA 5' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i>	387.19 14.50	53.07
	<i>For Self-Closing Stainless Steel Hinge Set, Add</i>	
	38.50	
32 31 23 00-0064 EA 5' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i>	405.27 14.50	55.49
	<i>For Self-Closing Stainless Steel Hinge Set, Add</i>	
	38.50	
32 31 23 00-0065 EA 5' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i>	466.47 14.50	57.90
	<i>For Self-Closing Stainless Steel Hinge Set, Add</i>	
	38.50	
32 31 23 00-0066 EA 5' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i>	545.91 14.50	60.31
	<i>For Self-Closing Stainless Steel Hinge Set, Add</i>	
	38.50	
32 31 23 00-0067 6' High Gates For Picket Fences <small>(32 31 23 00-0051)</small>		
32 31 23 00-0068 EA 6' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i>	410.10 14.50	57.90
	<i>For Self-Closing Stainless Steel Hinge Set, Add</i>	
	38.50	
32 31 23 00-0069 EA 6' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i>	428.19 14.50	60.31
	<i>For Self-Closing Stainless Steel Hinge Set, Add</i>	
	38.50	
32 31 23 00-0070 EA 6' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i>	517.57 14.50	62.73
	<i>For Self-Closing Stainless Steel Hinge Set, Add</i>	
	38.50	
32 31 23 00-0071 EA 6' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i>	572.14 14.50	65.14
	<i>For Self-Closing Stainless Steel Hinge Set, Add</i>	
	38.50	
32 31 23 00-0072 Gates Accessories <small>(32 31 23 00-0029)</small>		
32 31 23 00-0073 EA Gate Stop/Drop Rod.....	83.80	
32 31 23 00-0074 EA Latch Set.....	59.76	
32 31 23 00-0075 EA Stainless Steel Latch Set.....	83.80	
32 31 26 Wire Fences And Gates <small>(32 31)</small>		
32 31 26 00-0001 Chicken Wire <small>(32 31 26)</small>		
Note: Posts at 4'.		
32 31 26 00-0002 LF 1" Mesh, 4' High Chicken Wire Posts At 4'.....	6.17	1.41
32 31 26 00-0003 LF 2" Mesh, 6' High Chicken Wire Posts At 4'.....	6.84	1.41
32 31 26 00-0004 Wire And Screen <small>(32 31 26)</small>		
32 31 26 00-0005 Wire And Screen For Partitions And Fences <small>(32 31 26 00-0004)</small>		
Note: Excludes framing and post.		
32 31 26 00-0006 Screen Wire <small>(32 31 26 00-0005)</small>		
32 31 26 00-0007 LF Screen Wire, 48" Wide Rolls.....	10.51	0.97
32 31 26 00-0008 Hog Wire <small>(32 31 26 00-0005)</small>		
32 31 26 00-0009 SF 4" x 4" Hog Wire For Fencing.....	1.92	0.78
32 31 26 00-0010 SF 6" x 6" Hog Wire For Fencing.....	2.01	0.87
32 31 26 00-0011 Non-Climb Horse Fence <small>(32 31 26 00-0005)</small>		
32 31 26 00-0012 LF 4' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	8.39	3.11
32 31 26 00-0013 LF 5' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	10.69	3.89
32 31 26 00-0014 LF 6' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	13.28	4.66
32 31 26 00-0015 Screen For Partitions And Ceilings <small>(32 31 26 00-0004)</small>		
Note: Can be used to support insulation on walls and ceilings.		
32 31 26 00-0016 SF 1" Mesh Chicken Wire.....	1.65	
32 31 26 00-0017 Wicket Fence <small>(32 31 26)</small>		
32 31 26 00-0018 LF Steel Wicket Fence, Painted.....	48.32	4.33
32 31 29 Wood Fences And Gates <small>(32 31)</small>		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.

32 31 29 00-0001	Basket Weave <small>(32 31 29)</small> Note: 3/8" x 4" boards, 4" x 4" post		
32 31 29 00-0002	LF 6' High #1 Cedar Basket Weave Fence 3/8" x 4" Boards, 4" x 4" Post	37.77	2.81
	<i>For Fastening With Screws Instead Of Nails, Add</i>	2.18	
32 31 29 00-0003	LF 6' High, Pressure Treated Pine Basket Weave 3/8" x 4" Boards, 4" x 4" Post	24.14	2.81
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.52	
32 31 29 00-0004	Board Fence <small>(32 31 29)</small> Note: 1x4" board, 2x4" rail, 4x4" post.		
32 31 29 00-0005	LF Board Fence, 2 - 2" x 4" Rails, 3' High 1" x 4" Boards, Preservative Treated	22.05	2.81
	<i>For 1" x 6" Boards, Deduct</i>	-2.31	
	<i>For 1" x 3" Boards (Stockade Top), Add</i>	2.87	
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.43	
32 31 29 00-0006	LF Board Fence, 2 - 2" x 4" Rails, 4' High 1" x 4" Boards, Preservative Treated	24.55	2.81
	<i>For 1" x 6" Boards, Deduct</i>	-2.52	
	<i>For 1" x 3" Boards (Stockade Top), Add</i>	3.11	
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.58	
32 31 29 00-0007	LF Board Fence, 3 - 2" x 4" Rails, 5' High 1" x 4" Boards, Preservative Treated	27.42	2.81
	<i>For 1" x 6" Boards, Deduct</i>	-2.69	
	<i>For 1" x 3" Boards (Stockade Top), Add</i>	3.28	
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.73	
32 31 29 00-0008	LF Board Fence, 3 - 2" x 4" Rails, 6' High 1" x 4" Boards, Preservative Treated	29.29	2.81
	<i>For 1" x 6" Boards, Deduct</i>	-2.83	
	<i>For 1" x 3" Boards (Stockade Top), Add</i>	3.44	
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.84	
32 31 29 00-0009	LF Board Fence, 3 - 2" x 4" Rails, 8' High 1" x 4" Boards, Preservative Treated	31.31	2.81
	<i>For 1" x 6" Boards, Deduct</i>	-2.97	
	<i>For 1" x 3" Boards (Stockade Top), Add</i>	3.60	
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.96	
32 31 29 00-0010	LF Board Fence, 2 - 2" x 4" Rails, 3' High 1" x 4" #2 Grade Western Cedar	23.58	2.81
	<i>For 1" x 6" Boards, Deduct</i>	-2.37	
	<i>For 1" x 3" Boards (Stockade Top), Add</i>	2.91	
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.50	
32 31 29 00-0011	LF Board Fence, 2 - 2" x 4" Rails, 4' High 1" x 4" #2 Grade Western Cedar	25.73	2.81
	<i>For 1" x 6" Boards, Deduct</i>	-2.56	
	<i>For 1" x 3" Boards (Stockade Top), Add</i>	3.14	
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.64	
32 31 29 00-0012	LF Board Fence, 3 - 2" x 4" Rails, 5' High 1" x 4" #2 Grade Western Cedar	27.42	2.81
	<i>For 1" x 6" Boards, Deduct</i>	-2.69	
	<i>For 1" x 3" Boards (Stockade Top), Add</i>	3.28	
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.73	
32 31 29 00-0013	LF Board Fence, 3 - 2" x 4" Rails, 6' High 1" x 4" #2 Grade Western Cedar	29.29	2.81
	<i>For 1" x 6" Boards, Deduct</i>	-2.83	
	<i>For 1" x 3" Boards (Stockade Top), Add</i>	3.44	
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.84	
32 31 29 00-0014	LF Board Fence, 3 - 2" x 4" Rails, 8' High 1" x 4" #2 Grade Western Cedar	31.31	2.81
	<i>For 1" x 6" Boards, Deduct</i>	-2.97	
	<i>For 1" x 3" Boards (Stockade Top), Add</i>	3.60	
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.96	
32 31 29 00-0015	LF Board Fence, 2 - 2" x 4" Rails, 3' High 1" x 4" #1 Grade Cedar	23.58	2.81
	<i>For 1" x 6" Boards, Deduct</i>	-2.37	
	<i>For 1" x 3" Boards (Stockade Top), Add</i>	2.91	
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.50	
32 31 29 00-0016	LF Board Fence, 2 - 2" x 4" Rails, 4' High 1" x 4" #1 Grade Cedar	30.95	2.81
	<i>For 1" x 6" Boards, Deduct</i>	-2.77	
	<i>For 1" x 3" Boards (Stockade Top), Add</i>	3.30	
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.90	
32 31 29 00-0017	LF Board Fence, 3 - 2" x 4" Rails, 5' High 1" x 4" #1 Grade Cedar	32.43	2.81
	<i>For 1" x 6" Boards, Deduct</i>	-2.89	
	<i>For 1" x 3" Boards (Stockade Top), Add</i>	3.43	
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.98	
32 31 29 00-0018	LF Board Fence, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Grade Cedar	34.89	2.81
	<i>For 1" x 6" Boards, Deduct</i>	-3.05	
	<i>For 1" x 3" Boards (Stockade Top), Add</i>	3.61	
	<i>For Fastening With Screws Instead Of Nails, Add</i>	2.12	
32 31 29 00-0019	LF Board Fence, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Grade Cedar	37.55	2.81
	<i>For 1" x 6" Boards, Deduct</i>	-3.22	
	<i>For 1" x 3" Boards (Stockade Top), Add</i>	3.79	
	<i>For Fastening With Screws Instead Of Nails, Add</i>	2.27	
32 31 29 00-0020	Shadow Box <small>(32 31 29)</small> Note: 1x6" board, 2x4" Rail, 4x4" post.		
32 31 29 00-0021	LF Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 6" Pressure Treated Pine	36.77	2.81
	<i>For Fastening With Screws Instead Of Nails, Add</i>	2.13	
32 31 29 00-0022	LF Shadow Box, 3 - 2" x 4" Rails, 4' High 1" x 4" #1 Cedar	45.96	2.81
	<i>For Fastening With Screws Instead Of Nails, Add</i>	2.65	
32 31 29 00-0023	LF Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Cedar	49.86	2.81
	<i>For Fastening With Screws Instead Of Nails, Add</i>	2.86	
32 31 29 00-0024	LF Shadow Box, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Cedar	53.56	2.81
	<i>For Fastening With Screws Instead Of Nails, Add</i>	3.07	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences And Gates	32 31

MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0025	Open Rail Fence (32 31 29)		
32 31 29 00-0026	Post And Rail Fence, Ranch Style (32 31 29 00-0025)		
32 31 29 00-0027	LF Post And Rail Fence, 2 Rails, 3' High #1 Cedar	21.01	2.81
32 31 29 00-0028	LF Post And Rail Fence, 2 Rails, 3' High #2 Cedar	16.65	2.81
32 31 29 00-0029	LF Post And Rail Fence, 3 Rails, 4' High #1 Cedar	24.75	2.81
32 31 29 00-0030	LF Post And Rail Fence, 3 Rails, 4' High #2 Cedar	17.97	2.81
32 31 29 00-0031	Split Rail Fence (32 31 29 00-0025)		
32 31 29 00-0032	LF Split Rail Fence, 2 Rails, 3' High #1 Cedar	19.89	2.81
32 31 29 00-0033	LF Split Rail Fence, 2 Rails, 3' High #2 Cedar	16.61	2.81
32 31 29 00-0034	LF Split Rail Fence, 3 Rail, 4' High #1 Cedar	22.61	2.81
32 31 29 00-0035	LF Split Rail Fence, 3 Rail, 4' High #2 Cedar	18.60	2.81
32 31 29 00-0036	Picket Fence (32 31 29)		
32 31 29 00-0037	LF Picket Fence, 2 Rail, 3' High, Pressure Treated	22.15	2.81
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.44	
32 31 29 00-0038	LF Picket Fence, 2 Rail, 3' High #1 Cedar	20.92	2.81
	<i>For Fastening With Screws Instead Of Nails, Add</i>	1.38	
32 31 29 00-0039	Wood Fence Post Accessories (32 31 29)		
32 31 29 00-0040	EA 3-1/2" x 3-1/2" Copper, Pyramid Slip Over, Wood Fence Post Cap	30.31	
32 31 29 00-0041	EA 4" x 4" Copper, Pyramid Slip Over, Wood Fence Post Cap	33.43	
32 31 29 00-0042	EA 6" x 6" Copper, Pyramid Slip Over, Wood Fence Post Cap	36.57	
32 31 29 00-0043	EA 8" x 8" Copper, Pyramid Slip Over, Wood Fence Post Cap	52.16	
32 31 29 00-0044	Wood Gate (32 31 29)		
32 31 29 00-0045	Board Fence Gates, Pressure Treated Wood (32 31 29 00-0044)		
	Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (treated lumber).		
32 31 29 00-0046	EA 3' To 5' High x 3' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	354.10	110.76
32 31 29 00-0047	EA 3' To 5' High x 3'-6" Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	391.24	117.42
32 31 29 00-0048	EA 3' To 5' High x 4' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	437.26	128.49
32 31 29 00-0049	EA 3' To 5' High x 5' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	495.61	135.14
32 31 29 00-0050	EA 3' To 5' High x 6' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	553.98	141.79
32 31 29 00-0051	EA >5' To 8' High x 3' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	451.50	146.21
32 31 29 00-0052	EA >5' To 8' High x 3'-6" Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	491.30	152.86
32 31 29 00-0053	EA >5' To 8' High x 4' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	531.11	159.51
32 31 29 00-0054	EA >5' To 8' High x 5' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	597.41	166.15
32 31 29 00-0055	EA >5' To 8' High x 6' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	650.48	172.80
32 31 29 00-0056	Board Fence Gates, Grade 2 Cedar (32 31 29 00-0044)		
	Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0057	EA 3' To 5' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	534.07	88.08
32 31 29 00-0058	EA 3' To 5' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	552.59	93.37
32 31 29 00-0059	EA 3' To 5' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	580.81	102.18
32 31 29 00-0060	EA 3' To 5' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	612.58	107.46
32 31 29 00-0061	EA 3' To 5' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	652.32	112.75
32 31 29 00-0062	EA >5' To 8' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	630.20	116.27
32 31 29 00-0063	EA >5' To 8' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	654.02	121.55
32 31 29 00-0064	EA >5' To 8' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	691.10	126.84
32 31 29 00-0065	EA >5' To 8' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	728.18	132.12
32 31 29 00-0066	EA >5' To 8' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	765.26	137.41
32 31 29 00-0067	Board Fence Gates, Grade 1 Cedar (32 31 29 00-0044)		
	Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0068	EA 3' To 5' High x 3' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	573.83	88.08
32 31 29 00-0069	EA 3' To 5' High x 3'-6" Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	597.66	93.37
32 31 29 00-0070	EA 3' To 5' High x 4' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	628.53	102.18
32 31 29 00-0071	EA 3' To 5' High x 5' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	665.61	107.46
32 31 29 00-0072	EA 3' To 5' High x 6' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	702.69	112.75
32 31 29 00-0073	EA >5' To 8' High x 3' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	683.23	116.27
32 31 29 00-0074	EA >5' To 8' High x 3'-6" Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	707.04	121.55
32 31 29 00-0075	EA >5' To 8' High x 4' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	744.12	126.84
32 31 29 00-0076	EA >5' To 8' High x 5' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	781.20	132.12
32 31 29 00-0077	EA >5' To 8' High x 6' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	831.54	137.41
32 31 29 00-0078	Pressure Treated Wood Fence Posts (32 31 29)		
	See CSI section 32 31 13 13-0001 for drilling augering, 32 31 13 13-0668 for barbed wire, 32 31 56 00-0017 for barbed wire.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences And Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0079 EA 4' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill.....	33.75	11.08
32 31 29 00-0080 EA 6' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill.....	37.93	11.08
32 31 29 00-0081 EA 4' High, Pressure Treated Wood Fence Posts, Set In Concrete	59.50	21.27
32 31 29 00-0082 EA 6' High, Pressure Treated Wood Fence Posts, Set In Concrete	64.27	21.27
32 31 29 00-0083 Wood Utility Pole Fence <small>(32 31 29)</small> Note: Excludes post holes. See CSI section 32 31 13 13-0001 for drilling augering and backfill.		
32 31 29 00-0084 LF Wood Utility Pole Barrier Fence..... Note: Includes notching post, drilling and pinned with #5 rebar.	38.57	2.81
32 31 29 00-0085 Wood Rail Fence <small>(32 31 29)</small> Note: 3" diameter treated lodgepole pine rails, 6" diameter treated lodgepole pine post. Posts at 8' centers. Excludes post holes and fill		
32 31 29 00-0086 LF 4' Above Ground Wood Rail Fence, 3 - 3" Diameter Treated Lodgepole Pine Rails, 6" Diameter, 6' Overall Treated Lodgepole Pine Post	19.57	2.81
32 31 41 Precast Concrete Fences <small>(32 31)</small>		
32 31 41 00-0001 Precast Post And Rail Fence, Ranch Style, With Integral Color Concrete. <small>(32 31 41)</small> Note: Includes post holes, fill, spreading of excess material on site. See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 41 00-0002 LF Precast Post And Rail Fence With Integral Color Concrete, 2 Rails, 3' Above Ground With 2' Bury	48.32	2.81
Note: Includes 12" diameter holes with concrete fill for line posts and 18" diameter holes with concrete fill at corners.		
32 31 56 Wild Life Deterrent Fence <small>(32 31)</small>		
32 31 56 00-0001 Barbed Wire Fences <small>(32 31 56)</small> Note: Excludes post holes and fill See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 56 00-0002 Fence Posts <small>(32 31 56 00-0001)</small>		
32 31 56 00-0003 Fence Post Soil, Set In Concrete <small>(32 31 56 00-0002)</small>		
32 31 56 00-0004 EA Barbed Wire Fence Post, Galvanized Set In Concrete In Soil	64.57	6.27
For Bracing On Corner Post, End Post And Pull Post, Add	103.39	
32 31 56 00-0005 EA Barbed Wire Fence Post, Vinyl Coated Set In Concrete In Soil	84.58	6.27
For Bracing On Corner Post, End Post And Pull Post, Add	136.81	
32 31 56 00-0006 Post In Rock <small>(32 31 56 00-0002)</small>		
32 31 56 00-0007 EA Barbed Wire Fence Post, Galvanized Grouted In Rock.....	63.19	6.27
For Bracing On Corner Post, End Post And Pull Post, Add	101.32	
32 31 56 00-0008 EA Barbed Wire Fence Post, Vinyl Coated Grouted In Rock.....	83.20	6.27
For Bracing On Corner Post, End Post And Pull Post, Add	134.74	
32 31 56 00-0009 Studded Steel T-Posts, Enamel Paint Finish <small>(32 31 56 00-0001)</small> Note: Posts for barb wire, chain link or welded wire mesh.		
32 31 56 00-0010 EA 5' Studded Steel T-Post, Driven Into Earth	19.21	
32 31 56 00-0011 EA 5'-6" Studded Steel T-Post, Driven Into Earth.....	19.67	
32 31 56 00-0012 EA 6' Studded Steel T-Post, Driven Into Earth.....	20.47	
32 31 56 00-0013 EA 6'-6" Studded Steel T-Post, Driven Into Earth.....	21.26	
32 31 56 00-0014 EA 7' Studded Steel T-Post, Driven Into Earth	22.28	
32 31 56 00-0015 EA 8' Studded Steel T-Post, Driven Into Earth	24.92	
32 31 56 00-0016 EA 10' Studded Steel T-Post, Driven Into Earth	29.67	
32 31 56 00-0017 Barbed Wire <small>(32 31 56 00-0001)</small> Note: Per strand.		
32 31 56 00-0018 LF Galvanized Barbed Wire For Wild Life Deterrent Fencing, Per Strand	0.68	0.31
32 31 56 00-0019 LF Vinyl Coated Barbed Wire, For Wild Life Deterrent Fencing, Per Strand.....	0.76	0.31
32 31 56 00-0020 Barbed Wire Fence, Farm Style, With Wood Posts <small>(32 31 56 00-0001)</small> Note: Based on post at 10' centers, two corner post and two pull post per 300 lf.		
32 31 56 00-0021 LF 4'-6" Height, Three (3) Strand Barbed Wire Fence With Wood Posts..... Note: Posts at 10' maximum.	8.32	2.04
32 32 Retaining Walls <small>(32 30)</small>		
32 32 13 Cast-In-Place Concrete Retaining Wall <small>(32 32)</small> Note: System elements include all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.		
32 32 13 00-0001 LF 4' High With Base, 10" Thick Reinforced	304.88	108.24
For >3:1 Sloped Soil At Top, Add	7.52	
32 32 13 00-0002 LF 6' High With Base, 10" Thick Reinforced	380.69	133.20
For >3:1 Sloped Soil At Top, Add	9.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 13 00-0003 LF 8' High With Base, 10" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	414.98 10.85	143.67
32 32 13 00-0004 LF 10' High With Base, 13" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	529.79 14.84	177.64
32 32 13 00-0005 LF 12' High With Base, 14" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	610.71 17.22	204.05
32 32 13 00-0006 LF 16' High With Base, 16" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	882.62 24.14	299.34
32 32 13 00-0007 LF 20' High With Base, 18" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	1,211.13 32.69	413.26
32 32 13 00-0008 LF 4' High With Base, 12" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	335.18 8.39	118.21
32 32 13 00-0009 LF 6' High With Base, 12" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	410.76 10.71	142.44
32 32 13 00-0010 LF 8' High With Base, 12" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	435.41 11.75	148.61
32 32 13 00-0011 LF 10' High With Base, 16" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	600.12 17.14	199.18
32 32 13 00-0012 LF 12' High With Base, 18" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	760.23 21.13	255.84
32 32 13 00-0013 LF 16' High With Base, 21" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	1,139.04 30.90	387.80
32 32 13 00-0014 LF 20' High With Base, 24" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	1,607.51 43.58	547.40

32 32 16 Precast Concrete Retaining Walls (32 32)

32 32 16 00-0001 Precast Retaining Walls (32 32 16) Note: Tied-back earth walls. Includes precast filter fabric, soil reinforcing mesh and cast-in-place coping. Excludes concrete leveling pad, or select earth excavation and backfill.		
32 32 16 00-0002 SF Precast Concrete Retaining Walls, 10-15' High Tied-back Earth Walls	67.37	10.69
32 32 16 00-0003 SF Precast Concrete Retaining Walls, 16-20' High Tied-back Earth Walls	68.88	8.59
32 32 16 00-0004 SF Precast Concrete Retaining Walls, 21-25' High Tied-back Earth Walls	71.21	7.16
32 32 16 00-0005 SF Precast Concrete Retaining Walls, 26-30' High Tied-back Earth Walls	76.92	7.16
32 32 16 00-0006 SF Precast Concrete Retaining Walls, >30' High Tied-back Earth Walls	81.20	6.11

32 32 23 Segmental Retaining Walls (32 32)

32 32 23 13 Segmental Concrete Unit Masonry Retaining Walls (32 32 23)

32 32 23 13-0001 Modular Retaining Wall Systems (32 32 23 13) Note: Includes installation, material and manufacturer's wall design. Includes stone wall, cap stones, #57 stone backing, Geo-Grid (2/3 height of wall), miradrain and fill with earth, and compaction. Includes cap at top, pins, and installation. Excludes initial site grading, subbase preparation or finish grading.		
32 32 23 13-0002 "Amastone" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0003 SF Up To 4' Height "Amastone" Type Modular Retaining Wall System..... <i>For >3:1 Sloped Soil At Top, Add</i>	26.24 1.00	7.21
32 32 23 13-0004 SF 4 To 8' Height "Amastone" Type Modular Retaining Wall System..... <i>For >3:1 Sloped Soil At Top, Add</i>	27.66 1.06	7.59
32 32 23 13-0005 SF 8 To 12' Height "Amastone" Type Modular Retaining Wall System..... <i>For >3:1 Sloped Soil At Top, Add</i>	29.47 1.08	8.35
32 32 23 13-0006 SF 12 To 16' Height "Amastone" Type Modular Retaining Wall System..... <i>For >3:1 Sloped Soil At Top, Add</i>	31.30 1.11	9.12
32 32 23 13-0007 "Diamond" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0008 SF Up To 4' Height "Diamond" Type Modular Retaining Wall System..... <i>For >3:1 Sloped Soil At Top, Add</i>	26.86 1.06	7.21
32 32 23 13-0009 SF 4 To 8' Height "Diamond" Type Modular Retaining Wall System..... <i>For >3:1 Sloped Soil At Top, Add</i>	28.28 1.11	7.59
32 32 23 13-0010 SF 8 To 12' Height "Diamond" Type Modular Retaining Wall System..... <i>For >3:1 Sloped Soil At Top, Add</i>	30.08 1.14	8.35
32 32 23 13-0011 SF 12 To 16' Height "Diamond" Type Modular Retaining Wall System..... <i>For >3:1 Sloped Soil At Top, Add</i>	31.92 1.16	9.12
32 32 23 13-0012 "Keystone" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0013 SF Up To 4' Height "Keystone" Type Modular Retaining Wall System..... <i>For >3:1 Sloped Soil At Top, Add</i>	28.34 1.18	7.21
32 32 23 13-0014 SF 4 To 8' Height "Keystone" Type Modular Retaining Wall System..... <i>For >3:1 Sloped Soil At Top, Add</i>	29.76 1.24	7.59
32 32 23 13-0015 SF 8 To 12' Height "Keystone" Type Modular Retaining Wall System..... <i>For >3:1 Sloped Soil At Top, Add</i>	31.56 1.26	8.35
32 32 23 13-0016 SF 12 To 16' Height "Keystone" Type Modular Retaining Wall System..... <i>For >3:1 Sloped Soil At Top, Add</i>	33.39 1.29	9.12
32 32 23 13-0017 "Criblock" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0018 SF Up To 4' Height "Criblock" Type Modular Retaining Wall System..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Gravel Backfill Instead Of Earth, Add</i>	26.24 1.00 0.25	7.21

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 23 13-0019 SF 4 To 8' Height "Criblock" Type Modular Retaining Wall System	27.66	7.59
For >3:1 Sloped Soil At Top, Add	1.06	
For Gravel Backfill Instead Of Earth, Add	0.25	
32 32 23 13-0020 SF 8 To 12' Height "Criblock" Type Modular Retaining Wall System	29.47	8.35
For >3:1 Sloped Soil At Top, Add	1.08	
For Gravel Backfill Instead Of Earth, Add	0.25	
32 32 23 13-0021 SF 12 To 16' Height "Criblock" Type Modular Retaining Wall System	31.30	9.12
For >3:1 Sloped Soil At Top, Add	1.11	
For Gravel Backfill Instead Of Earth, Add	0.25	
32 32 23 13-0022 "Versa-Lok" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0023 SF Up To 4' Height "Versa-Lok" Type Modular Retaining Wall System	24.37	7.21
For >3:1 Sloped Soil At Top, Add	0.84	
32 32 23 13-0024 SF 4 To 8' Height "Versa-Lok" Type Modular Retaining Wall System	26.41	7.59
For >3:1 Sloped Soil At Top, Add	0.95	
32 32 23 13-0025 SF 8 To 12' Height "Versa-Lok" Type Modular Retaining Wall System	28.22	8.35
For >3:1 Sloped Soil At Top, Add	0.98	
32 32 23 13-0026 SF 12 To 16' Height "Versa-Lok" Type Modular Retaining Wall System	29.94	9.12
For >3:1 Sloped Soil At Top, Add	1.00	
32 32 23 13-0027 Retaining Wall Cap Block Restoration (32 32 23 13-0001)		
Note: Includes removal of existing cap block and installation of new cap block to match.		
32 32 23 13-0028 LF Removal And Reinstall Retaining Wall Cap Block And Pins	25.72	
For >3:1 Sloped Soil At Top, Add	1.27	
32 32 26 Metal Crib Retaining Walls (32 32)		
32 32 26 00-0001 Aluminized Steel Bin (32 32 26)		
Note: Excludes excavation and backfill.		
32 32 26 00-0002 SF 4' High, 5.5' Deep Aluminized Steel Bin	24.40	4.00
For >3:1 Sloped Soil At Top, Add	1.39	
For Galvanized Type, Deduct	-1.64	
32 32 26 00-0003 SF 8' High, 5.5' Deep Aluminized Steel Bin	26.98	4.00
For >3:1 Sloped Soil At Top, Add	1.61	
For Galvanized Type, Deduct	-1.89	
32 32 26 00-0004 SF 10' High, 7.7' Deep Aluminized Steel Bin	28.84	4.38
For >3:1 Sloped Soil At Top, Add	1.71	
For Galvanized Type, Deduct	-2.01	
32 32 26 00-0005 SF 12' High, 7.7' Deep Aluminized Steel Bin	32.83	4.93
For >3:1 Sloped Soil At Top, Add	1.95	
For Galvanized Type, Deduct	-2.30	
32 32 26 00-0006 SF 16' High, 7.7' Deep Aluminized Steel Bin	31.88	5.12
For >3:1 Sloped Soil At Top, Add	1.85	
For Galvanized Type, Deduct	-2.17	
32 32 26 00-0007 SF 16' High, 9.9' Deep Aluminized Steel Bin	35.14	5.21
For >3:1 Sloped Soil At Top, Add	2.11	
For Galvanized Type, Deduct	-2.48	
32 32 26 00-0008 SF 20' High, 9.9' Deep Aluminized Steel Bin	38.81	5.49
For >3:1 Sloped Soil At Top, Add	2.36	
For Galvanized Type, Deduct	-2.78	
32 32 26 00-0009 SF 20' High, 12.1' Deep Aluminized Steel Bin	39.79	5.78
For >3:1 Sloped Soil At Top, Add	2.41	
For Galvanized Type, Deduct	-2.83	
32 32 26 00-0010 SF 24' High, 12.1' Deep Aluminized Steel Bin	41.66	5.78
For >3:1 Sloped Soil At Top, Add	2.56	
For Galvanized Type, Deduct	-3.01	
32 32 26 00-0011 SF 24' High, 14.3' Deep Aluminized Steel Bin	43.52	5.87
For >3:1 Sloped Soil At Top, Add	2.71	
For Galvanized Type, Deduct	-3.19	
32 32 26 00-0012 SF 28' High, 14.3' Deep Aluminized Steel Bin	44.89	5.95
For >3:1 Sloped Soil At Top, Add	2.81	
For Galvanized Type, Deduct	-3.31	
32 32 29 Timber Retaining Walls (32 32)		
32 32 29 00-0001 Wood Post Retaining Walls (32 32 29)		
Note: System elements include wood posts installed side-by-side to various heights, and underdrain. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0002 LF 4" x 4", 1' High, Redwood, Wood Post Retaining Walls	66.35	24.18
For >3:1 Sloped Soil At Top, Add	1.54	
32 32 29 00-0003 LF 4" x 4", 2' High, Redwood, Wood Post Retaining Walls	129.87	47.35
For >3:1 Sloped Soil At Top, Add	2.99	
32 32 29 00-0004 LF 4" x 4", 1' High, Cedar, Wood Post Retaining Walls	64.05	24.18
For >3:1 Sloped Soil At Top, Add	1.34	
32 32 29 00-0005 LF 4" x 4", 2' High, Cedar, Wood Post Retaining Walls	125.39	47.35
For >3:1 Sloped Soil At Top, Add	2.61	
32 32 29 00-0006 LF 4" x 4", 1' High, Pressure Treated Lumber, Wood Post Retaining Walls	67.43	21.13
For >3:1 Sloped Soil At Top, Add	2.14	
32 32 29 00-0007 LF 4" x 4", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls	132.03	41.32
For >3:1 Sloped Soil At Top, Add	4.19	



		Exterior Improvements	32
		Site Improvements	32 30
		Retaining Walls	32 32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0008	LF	4" x 4", 1' High, Creosoted Lumber, Wood Post Retaining Walls.....	52.78	18.75	
		<i>For >3:1 Sloped Soil At Top, Add</i>	1.30		
32 32 29 00-0009	LF	4" x 4", 2' High, Creosoted Lumber, Wood Post Retaining Walls.....	95.42	33.94	
		<i>For >3:1 Sloped Soil At Top, Add</i>	2.34		
32 32 29 00-0010	LF	6" x 6", 2' High, Redwood, Wood Post Retaining Walls.....	173.63	57.36	
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.01		
32 32 29 00-0011	LF	6" x 6", 4' High, Redwood, Wood Post Retaining Walls.....	342.64	112.44	
		<i>For >3:1 Sloped Soil At Top, Add</i>	10.02		
32 32 29 00-0012	LF	6" x 6", 2' High, Cedar, Wood Post Retaining Walls.....	171.07	57.36	
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.79		
32 32 29 00-0013	LF	6" x 6", 4' High, Cedar, Wood Post Retaining Walls.....	336.24	112.44	
		<i>For >3:1 Sloped Soil At Top, Add</i>	9.47		
32 32 29 00-0014	LF	6" x 6", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls.....	173.23	46.58	
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.80		
32 32 29 00-0015	LF	6" x 6", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls.....	344.07	91.98	
		<i>For >3:1 Sloped Soil At Top, Add</i>	13.60		
32 32 29 00-0016	LF	6" x 6", 2' High, Creosoted Lumber, Wood Post Retaining Walls.....	118.78	37.25	
		<i>For >3:1 Sloped Soil At Top, Add</i>	3.76		
32 32 29 00-0017	LF	6" x 6", 4' High, Creosoted Lumber, Wood Post Retaining Walls.....	233.53	72.89	
		<i>For >3:1 Sloped Soil At Top, Add</i>	7.46		
32 32 29 00-0018	LF	8" x 8", 4' High, Redwood, Wood Post Retaining Walls.....	424.18	124.31	
		<i>For >3:1 Sloped Soil At Top, Add</i>	14.92		
32 32 29 00-0019	LF	8" x 8", 6' High, Redwood, Wood Post Retaining Walls.....	793.34	232.08	
		<i>For >3:1 Sloped Soil At Top, Add</i>	27.99		
32 32 29 00-0020	LF	8" x 8", 4' High, Cedar, Wood Post Retaining Walls.....	411.37	124.31	
		<i>For >3:1 Sloped Soil At Top, Add</i>	13.83		
32 32 29 00-0021	LF	8" x 8", 6' High, Cedar, Wood Post Retaining Walls.....	769.00	232.08	
		<i>For >3:1 Sloped Soil At Top, Add</i>	25.92		
32 32 29 00-0022	LF	8" x 8", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls.....	476.66	143.41	
		<i>For >3:1 Sloped Soil At Top, Add</i>	16.14		
32 32 29 00-0023	LF	8" x 8", 6' High, Pressure Treated Lumber, Wood Post Retaining Walls.....	889.23	267.80	
		<i>For >3:1 Sloped Soil At Top, Add</i>	30.06		
32 32 29 00-0024	LF	8" x 8", 4' High, Creosoted Lumber, Wood Post Retaining Walls.....	337.50	115.91	
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.98		
32 32 29 00-0025	LF	8" x 8", 6' High, Creosoted Lumber, Wood Post Retaining Walls.....	625.98	215.02	
		<i>For >3:1 Sloped Soil At Top, Add</i>	16.66		
32 32 29 00-0026	LF	4' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls.....	127.65	47.78	
		<i>For >3:1 Sloped Soil At Top, Add</i>	2.72		
32 32 29 00-0027	LF	6' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls.....	190.83	71.70	
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.03		
32 32 29 00-0028	LF	8' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls.....	253.92	95.54	
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.34		
32 32 29 00-0029	LF	4' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls.....	85.42	26.99	
		<i>For >3:1 Sloped Soil At Top, Add</i>	2.67		
32 32 29 00-0030	LF	6' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls.....	124.04	38.95	
		<i>For >3:1 Sloped Soil At Top, Add</i>	3.92		
32 32 29 00-0031	LF	8' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls.....	167.93	52.61	
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.34		
32 32 29 00-0032		Post And Board Retaining Walls <small>(32 32 29)</small>			
		Note: System includes all the elements that must go into a wall that resists lateral pressure. System elements include posts and boards, cap, underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.			
32 32 29 00-0033	LF	4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	51.93	14.34	
		<i>For >3:1 Sloped Soil At Top, Add</i>	1.98		
32 32 29 00-0034	LF	4" x 4" Post, 2' Spacing, 4' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	80.38	24.52	
		<i>For >3:1 Sloped Soil At Top, Add</i>	2.67		
32 32 29 00-0035	LF	6" x 6" Post, 4' Spacing, 5' High 2" Planking, Redwood, Post And Board Retaining Walls.....	105.16	30.46	
		<i>For >3:1 Sloped Soil At Top, Add</i>	3.76		
32 32 29 00-0036	LF	6" x 6" Post, 3' Spacing, 6' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	147.14	43.19	
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.17		
32 32 29 00-0037	LF	6" x 6" With Deadman, 3' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	192.40	56.18	
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.81		
32 32 29 00-0038	LF	8" x 8" Post, 2' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	393.98	111.16	
		<i>For >3:1 Sloped Soil At Top, Add</i>	14.59		
32 32 29 00-0039	LF	8" x 8" With Deadman, 2' Spacing, 9' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	444.77	123.12	
		<i>For >3:1 Sloped Soil At Top, Add</i>	16.88		
32 32 29 00-0040	LF	4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Cedar, Post And Board Retaining Walls.....	52.81	14.94	
		<i>For >3:1 Sloped Soil At Top, Add</i>	1.95		
32 32 29 00-0041	LF	4" x 4" With Deadman, 2' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls.....	92.78	26.56	
		<i>For >3:1 Sloped Soil At Top, Add</i>	3.38		
32 32 29 00-0042	LF	6" x 6" Post, 4' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls.....	91.18	26.05	
		<i>For >3:1 Sloped Soil At Top, Add</i>	3.32		
32 32 29 00-0043	LF	6" x 6" Post, 3' Spacing, 5' High 2" Planking, Cedar, Post And Board Retaining Walls.....	128.00	37.42	
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.52		
32 32 29 00-0044	LF	6" x 6" Post, 2' Spacing, 6' High 2" Planking, Cedar, Post And Board Retaining Walls.....	199.59	59.74	
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.81		
32 32 29 00-0045	LF	6 x 6 Post With Deadman, 3' Spacing, 6' High, 2" Planking, Cedar.....	157.76	45.91	
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.61		
32 32 29 00-0046	LF	8 x 8 Post With Deadman, 2' Spacing, 8' High, 2" Planking, Cedar.....	407.49	114.72	
		<i>For >3:1 Sloped Soil At Top, Add</i>	15.14		
32 32 29 00-0047	LF	4 x 4 Post, 4' Spacing, 3' High 2" Planking, Pressure Treated.....	68.35	27.58	
		<i>For >3:1 Sloped Soil At Top, Add</i>	1.12		

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0048	LF	4 x 4 Post, 3' Spacing, 4' High 2" Planking, Pressure Treated.....	98.72	39.20
		<i>For >3:1 Sloped Soil At Top, Add</i>	1.73	
32 32 29 00-0049	LF	4 x 4 Post With Deadman, 2' Space, 5' High, 2" Planking, Pressure Treat.....	142.78	53.80
		<i>For >3:1 Sloped Soil At Top, Add</i>	2.99	
32 32 29 00-0050	LF	6 x 6 Post, 3' Spacing, 6' High, 2" Planking, Pressure Treated.....	250.17	90.79
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.83	
32 32 29 00-0051	LF	6 x 6 Post, 2' Spacing, 7' High, 2" Planking, Pressure Treated.....	253.37	90.79
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.10	
32 32 29 00-0052	LF	6 x 6 Post With Deadman, 3' Spacing 8' High, 2" Planking, Pressure Treat.....	238.56	87.23
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.45	
32 32 29 00-0053	LF	8 x 8 Post With Deadman, 2' Spacing 10' High, 2" Planking, Pressure Treated.....	560.16	200.68
		<i>For >3:1 Sloped Soil At Top, Add</i>	13.50	
32 32 29 00-0054	LF	4 x 4 Post, 4' Spacing, 3' High Creosoted 2" Planking.....	68.35	27.58
		<i>For >3:1 Sloped Soil At Top, Add</i>	1.12	
32 32 29 00-0055	LF	4 x 4 Post, 3' Spacing, 4' High Creosoted, 2" Planking.....	98.72	39.20
		<i>For >3:1 Sloped Soil At Top, Add</i>	1.73	
32 32 29 00-0056	LF	4 x 4 Post With Deadman, 2' Spacing, 5' High, Creosoted, 2" Planking.....	142.78	53.80
		<i>For >3:1 Sloped Soil At Top, Add</i>	2.99	
32 32 29 00-0057	LF	6 x 6 Post, 3' Spacing, 6' High Creosoted, 2" Planking.....	179.32	66.95
		<i>For >3:1 Sloped Soil At Top, Add</i>	3.87	
32 32 29 00-0058	LF	6" x 6" Post, 2' Spacing, 7' High, 2" Planking, Creosoted, Post And Board Retaining Walls.....	250.17	90.79
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.83	
32 32 29 00-0059	LF	6" x 6" Post With Deadman, 3' Spacing, 8' High, 2" Planking, Creosoted, Post And Board Retaining Walls.....	238.56	87.23
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.45	
32 32 29 00-0060	LF	8" x 8" Post With Deadman, 2' Spacing, 10' High, Creosoted, 2" Planking, Post And Board Retaining Walls.....	560.16	200.68
		<i>For >3:1 Sloped Soil At Top, Add</i>	13.50	
32 32 29 00-0061		Wood Tie Retaining Walls, Rod Connector At 4' <small>(32 32 29)</small>		
		Note: The system includes all the elements that must go into a wall that resists lateral pressure. System elements include: wood ties, threaded rod (1/2" diameter), underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0062		Redwood <small>(32 32 29 00-0061)</small>		
32 32 29 00-0063	LF	2' High, 6" x 6" Wood Tie Wall.....	89.55	29.36
		<i>For >3:1 Sloped Soil At Top, Add</i>	2.61	
32 32 29 00-0064	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'.....	204.30	66.95
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.99	
32 32 29 00-0065	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'.....	305.86	100.38
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.93	
32 32 29 00-0066	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	293.77	86.04
		<i>For >3:1 Sloped Soil At Top, Add</i>	10.34	
32 32 29 00-0067	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	441.39	129.06
		<i>For >3:1 Sloped Soil At Top, Add</i>	15.57	
32 32 29 00-0068	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	582.79	169.71
		<i>For >3:1 Sloped Soil At Top, Add</i>	20.69	
32 32 29 00-0069		Cedar <small>(32 32 29 00-0061)</small>		
32 32 29 00-0070	LF	2' High, 6" x 6" Wood Tie Wall.....	88.27	29.36
		<i>For >3:1 Sloped Soil At Top, Add</i>	2.50	
32 32 29 00-0071	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'.....	200.46	66.95
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.66	
32 32 29 00-0072	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'.....	300.74	100.38
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.49	
32 32 29 00-0073	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	284.81	86.04
		<i>For >3:1 Sloped Soil At Top, Add</i>	9.58	
32 32 29 00-0074	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	428.58	129.06
		<i>For >3:1 Sloped Soil At Top, Add</i>	14.48	
32 32 29 00-0075	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	564.85	169.71
		<i>For >3:1 Sloped Soil At Top, Add</i>	19.16	
32 32 29 00-0076		Creosoted Wood <small>(32 32 29 00-0061)</small>		
32 32 29 00-0077	LF	2' High, 6" x 8" Wood Tie Wall.....	99.76	38.95
		<i>For >3:1 Sloped Soil At Top, Add</i>	1.86	
32 32 29 00-0078	LF	4' High, 6" x 8" Wood Tie Wall Deadman At 6'.....	228.60	89.61
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.19	
32 32 29 00-0079	LF	6' High, 6" x 8" Wood Tie Wall Deadman At 6'.....	338.93	132.63
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.26	
32 32 29 00-0080	LF	4' High, 7" x 9" Wood Tie Wall Deadman At 6'.....	459.51	180.40
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.38	
32 32 29 00-0081	LF	6' High, 7" x 9" Wood Tie Wall Deadman At 6'.....	669.05	262.80
		<i>For >3:1 Sloped Soil At Top, Add</i>	12.20	
32 32 29 00-0082	LF	8' High, 7" x 9" Wood Tie Wall Deadman At 6'.....	887.74	348.41
		<i>For >3:1 Sloped Soil At Top, Add</i>	16.22	
32 32 29 00-0083		Pressure Treated Wood <small>(32 32 29 00-0061)</small>		
32 32 29 00-0084	LF	2' High, 6" x 6" Wood Tie Wall.....	77.42	24.27
		<i>For >3:1 Sloped Soil At Top, Add</i>	2.46	
32 32 29 00-0085	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'.....	175.92	54.98
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.61	



		Exterior Improvements	32
		Site Improvements	32 30
		Retaining Walls	32 32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0086	LF		6' High, 6" x 6" Wood Tie Wall Deadman At 6'.....	263.55	82.48
			<i>For >3:1 Sloped Soil At Top, Add</i>	8.38	
32 32 29 00-0087	LF		4' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	288.63	99.19
			<i>For >3:1 Sloped Soil At Top, Add</i>	7.68	
32 32 29 00-0088	LF		6' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	433.49	148.24
			<i>For >3:1 Sloped Soil At Top, Add</i>	11.65	
32 32 29 00-0089	LF		8' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	574.83	197.12
			<i>For >3:1 Sloped Soil At Top, Add</i>	15.35	
32 32 53 Stone Retaining Walls (32 32)					
32 32 53 00-0001	Stone Retaining Walls (32 32 53)				
	Note: Construction is either dry set or mortar set. System elements include concrete base, crushed stone, underdrain, and backfill. Standard design to have 12" thick top with vertical backside and sloped face at 2" per foot of height. Excludes initial site grading, subbase preparation or finish grading.				
32 32 53 00-0002	Stone Retaining Walls (32 32 53 00-0001)				
	Note: Stone at \$16.00/ton.				
32 32 53 00-0003	LF		\$16.00/ton 3' High Stone Retaining Wall, Dry Set	369.97	170.94
			<i>For >3:1 Sloped Soil At Top, Add</i>	2.38	
32 32 53 00-0004	LF		\$16.00/ton 4' High Stone Retaining Wall, Dry Set	437.41	203.37
			<i>For >3:1 Sloped Soil At Top, Add</i>	2.60	
32 32 53 00-0005	LF		\$16.00/ton 6' High Stone Retaining Wall, Dry Set	576.22	270.19
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.05	
32 32 53 00-0006	LF		\$16.00/ton 8' High Stone Retaining Wall, Dry Set	891.25	422.46
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.93	
32 32 53 00-0007	LF		\$16.00/ton 10' High Stone Retaining Wall, Dry Set	1,160.04	552.62
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.65	
32 32 53 00-0008	LF		\$16.00/ton 12' High Stone Retaining Wall, Dry Set	1,440.92	688.17
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.48	
32 32 53 00-0009	LF		\$16.00/ton 3' High Stone Retaining Wall, Mortar Set.....	330.73	151.35
			<i>For >3:1 Sloped Soil At Top, Add</i>	2.38	
32 32 53 00-0010	LF		\$16.00/ton 4' High Stone Retaining Wall, Mortar Set.....	388.81	179.07
			<i>For >3:1 Sloped Soil At Top, Add</i>	2.60	
32 32 53 00-0011	LF		\$16.00/ton 6' High Stone Retaining Wall, Mortar Set.....	504.48	234.27
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.05	
32 32 53 00-0012	LF		\$16.00/ton 8' High Stone Retaining Wall, Mortar Set.....	775.77	364.75
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.93	
32 32 53 00-0013	LF		\$16.00/ton 10' High Stone Retaining Wall, Mortar Set.....	998.05	471.67
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.65	
32 32 53 00-0014	LF		\$16.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,241.11	588.31
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.48	
32 32 53 00-0015	Stone Retaining Walls (32 32 53 00-0001)				
	Note: Stone at \$32.00/ton.				
32 32 53 00-0016	LF		\$32.00/ton 3' High Stone Retaining Wall, Dry Set	378.44	170.94
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.10	
32 32 53 00-0017	LF		\$32.00/ton 4' High Stone Retaining Wall, Dry Set	449.14	203.37
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.60	
32 32 53 00-0018	LF		\$32.00/ton 6' High Stone Retaining Wall, Dry Set	593.16	270.19
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.49	
32 32 53 00-0019	LF		\$32.00/ton 8' High Stone Retaining Wall, Dry Set	916.01	422.46
			<i>For >3:1 Sloped Soil At Top, Add</i>	6.04	
32 32 53 00-0020	LF		\$32.00/ton 10' High Stone Retaining Wall, Dry Set	1,193.93	552.62
			<i>For >3:1 Sloped Soil At Top, Add</i>	7.53	
32 32 53 00-0021	LF		\$32.00/ton 12' High Stone Retaining Wall, Dry Set	1,483.94	688.17
			<i>For >3:1 Sloped Soil At Top, Add</i>	9.14	
32 32 53 00-0022	LF		\$32.00/ton 3' High Stone Retaining Wall, Mortar Set.....	339.20	151.35
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.10	
32 32 53 00-0023	LF		\$32.00/ton 4' High Stone Retaining Wall, Mortar Set.....	400.54	179.07
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.60	
32 32 53 00-0024	LF		\$32.00/ton 6' High Stone Retaining Wall, Mortar Set.....	521.42	234.27
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.49	
32 32 53 00-0025	LF		\$32.00/ton 8' High Stone Retaining Wall, Mortar Set.....	800.53	364.75
			<i>For >3:1 Sloped Soil At Top, Add</i>	6.04	
32 32 53 00-0026	LF		\$32.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,031.94	471.67
			<i>For >3:1 Sloped Soil At Top, Add</i>	7.53	
32 32 53 00-0027	LF		\$32.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,284.13	588.31
			<i>For >3:1 Sloped Soil At Top, Add</i>	9.14	
32 32 53 00-0028	Stone Retaining Walls (32 32 53 00-0001)				
	Note: Stone at \$48.00/ton.				
32 32 53 00-0029	LF		\$48.00/ton 3' High Stone Retaining Wall, Dry Set	387.56	170.94
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.88	
32 32 53 00-0030	LF		\$48.00/ton 4' High Stone Retaining Wall, Dry Set	460.75	203.37
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.59	
32 32 53 00-0031	LF		\$48.00/ton 6' High Stone Retaining Wall, Dry Set	609.46	270.19
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.87	
32 32 53 00-0032	LF		\$48.00/ton 8' High Stone Retaining Wall, Dry Set	940.78	422.46
			<i>For >3:1 Sloped Soil At Top, Add</i>	8.14	
32 32 53 00-0033	LF		\$48.00/ton 10' High Stone Retaining Wall, Dry Set	1,227.82	552.62
			<i>For >3:1 Sloped Soil At Top, Add</i>	10.42	

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 53 00-0034 LF \$48.00/ton 12' High Stone Retaining Wall, Dry Set.....	1,527.61	688.17
For >3:1 Sloped Soil At Top, Add	12.85	
32 32 53 00-0035 LF \$48.00/ton 3' High Stone Retaining Wall, Mortar Set.....	348.32	151.35
For >3:1 Sloped Soil At Top, Add	3.88	
32 32 53 00-0036 LF \$48.00/ton 4' High Stone Retaining Wall, Mortar Set.....	412.28	179.07
For >3:1 Sloped Soil At Top, Add	4.60	
32 32 53 00-0037 LF \$48.00/ton 6' High Stone Retaining Wall, Mortar Set.....	537.72	234.27
For >3:1 Sloped Soil At Top, Add	5.87	
32 32 53 00-0038 LF \$48.00/ton 8' High Stone Retaining Wall, Mortar Set.....	825.30	364.75
For >3:1 Sloped Soil At Top, Add	8.14	
32 32 53 00-0039 LF \$48.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,065.83	471.67
For >3:1 Sloped Soil At Top, Add	10.42	
32 32 53 00-0040 LF \$48.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,327.80	588.31
For >3:1 Sloped Soil At Top, Add	12.85	
32 32 53 00-0041 Stone Retaining Walls (32 32 53 00-0001)		
Note: Stone at \$64.00/ton.		
32 32 53 00-0042 LF \$64.00/ton 3' High Stone Retaining Wall, Dry Set.....	396.69	170.94
For >3:1 Sloped Soil At Top, Add	4.65	
32 32 53 00-0043 LF \$64.00/ton 4' High Stone Retaining Wall, Dry Set.....	459.57	203.37
For >3:1 Sloped Soil At Top, Add	4.49	
32 32 53 00-0044 LF \$64.00/ton 6' High Stone Retaining Wall, Dry Set.....	627.05	270.19
For >3:1 Sloped Soil At Top, Add	7.37	
32 32 53 00-0045 LF \$64.00/ton 8' High Stone Retaining Wall, Dry Set.....	966.85	422.46
For >3:1 Sloped Soil At Top, Add	10.36	
32 32 53 00-0046 LF \$64.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,263.02	552.62
For >3:1 Sloped Soil At Top, Add	13.41	
32 32 53 00-0047 LF \$64.00/ton 12' High Stone Retaining Wall, Dry Set.....	1,571.93	688.17
For >3:1 Sloped Soil At Top, Add	16.62	
32 32 53 00-0048 LF \$64.00/ton 3' High Stone Retaining Wall, Mortar Set.....	357.45	151.35
For >3:1 Sloped Soil At Top, Add	4.65	
32 32 53 00-0049 LF \$64.00/ton 4' High Stone Retaining Wall, Mortar Set.....	424.01	179.07
For >3:1 Sloped Soil At Top, Add	5.60	
32 32 53 00-0050 LF \$64.00/ton 6' High Stone Retaining Wall, Mortar Set.....	555.31	234.27
For >3:1 Sloped Soil At Top, Add	7.37	
32 32 53 00-0051 LF \$64.00/ton 8' High Stone Retaining Wall, Mortar Set.....	851.37	364.75
For >3:1 Sloped Soil At Top, Add	10.36	
32 32 53 00-0052 LF \$64.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,101.03	471.67
For >3:1 Sloped Soil At Top, Add	13.41	
32 32 53 00-0053 LF \$64.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,372.12	588.31
For >3:1 Sloped Soil At Top, Add	16.62	
32 35 Screening Devices (32 30)		
32 35 16 Sound Barriers (32 35)		
32 35 16 00-0001 Precast Concrete Roadway Sound Barriers And Support Including Caps For Columns (32 35 16)		
Note: Installed on steel supports. Finish to be determined by owner (ribbed, patterned, stamped, exposed aggregate or smooth)		
32 35 16 00-0002 4" Thick (32 35 16 00-0001)		
32 35 16 00-0003 LF 6' High x 4" Thick Precast Concrete Sound Walls.....	109.98	20.02
32 35 16 00-0004 LF 7' High x 4" Thick Precast Concrete Sound Walls.....	119.29	22.34
32 35 16 00-0005 LF 8' High x 4" Thick Precast Concrete Sound Walls.....	129.85	24.21
32 35 16 00-0006 LF 9' High x 4" Thick Precast Concrete Sound Walls.....	138.78	26.06
32 35 16 00-0007 LF 10' High x 4" Thick Precast Concrete Sound Walls.....	146.77	27.93
32 35 16 00-0008 LF 11' High x 4" Thick Precast Concrete Sound Walls.....	157.56	28.86
32 35 16 00-0009 LF 12' High x 4" Thick Precast Concrete Sound Walls.....	167.96	30.26
32 35 16 00-0010 6" Thick (32 35 16 00-0001)		
32 35 16 00-0011 LF 6' High x 6" Thick Precast Concrete Sound Walls.....	131.02	23.27
32 35 16 00-0012 LF 7' High x 6" Thick Precast Concrete Sound Walls.....	142.10	26.06
32 35 16 00-0013 LF 8' High x 6" Thick Precast Concrete Sound Walls.....	154.69	28.86
32 35 16 00-0014 LF 9' High x 6" Thick Precast Concrete Sound Walls.....	165.29	30.72
32 35 16 00-0015 LF 10' High x 6" Thick Precast Concrete Sound Walls.....	174.82	32.58
32 35 16 00-0016 LF 11' High x 6" Thick Precast Concrete Sound Walls.....	187.71	33.98
32 35 16 00-0017 LF 12' High x 6" Thick Precast Concrete Sound Walls.....	200.13	35.37
32 35 16 00-0018 8" Thick (32 35 16 00-0001)		
32 35 16 00-0019 LF 6' High x 8" Thick Precast Concrete Sound Walls.....	157.79	27.93
32 35 16 00-0020 LF 7' High x 8" Thick Precast Concrete Sound Walls.....	171.06	30.72
32 35 16 00-0021 LF 8' High x 8" Thick Precast Concrete Sound Walls.....	186.23	33.52
32 35 16 00-0022 LF 9' High x 8" Thick Precast Concrete Sound Walls.....	198.97	36.31
32 35 16 00-0023 LF 10' High x 8" Thick Precast Concrete Sound Walls.....	210.43	38.64
32 35 16 00-0024 LF 11' High x 8" Thick Precast Concrete Sound Walls.....	226.03	40.03
32 35 16 00-0025 LF 12' High x 8" Thick Precast Concrete Sound Walls.....	241.08	41.89



Exterior Improvements	32	32
Site Improvements	32 30	
Screening Devices	32 35	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 35 16 00-0026	Redwood Top <small>(32 35 16 00-0001)</small>		
32 35 16 00-0027	LF 2" x 6" Redwood, Construction Grade/Rough.....	3.76	0.97
32 35 16 00-0028	LF 2" x 8" Redwood, Construction Grade/Rough.....	4.41	1.27
32 35 16 00-0029	LF 2" x 10" Redwood, Construction Grade/Rough.....	6.64	1.55
32 35 16 00-0030	LF 2" x 12" Redwood, Construction Grade/Rough.....	8.01	1.94
32 35 16 00-0031	LF 2" x 6" Redwood, Con Heart/Smooth.....	4.52	0.97
32 35 16 00-0032	LF 2" x 8" Redwood, Con Heart/Smooth.....	6.50	1.27
32 35 16 00-0033	LF 2" x 10" Redwood, Con Heart/Smooth.....	8.58	1.55
32 35 16 00-0034	LF 2" x 12" Redwood, Con Heart/Smooth.....	10.31	1.94

32 39 Manufactured Site Specialties (32 39)

Note: Excludes core drilling, augering, concrete footing and compaction See CSI section 02 41 19 13-0080 for concrete core drilling, 02 41 19 13-0218 for asphalt core drilling, 32 31 13 13-0002 for augering, 32 31 13 13-0019 for concrete footing, 32 31 13 13-0045 for compaction of earth.

32 39 13 Manufactured Metal Bollards (32 39)

32 39 13 00-0001 Metal Pipe Bollards (32 39 13)

Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill for post and post holes.

32 39 13 00-0002 Steel Pipe Bollard, Schedule 40 Pipe, Painted Or Powder Coated (32 39 13 00-0001)

32 39 13 00-0003	LF 4" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	41.73	10.33
	<i>For Galvanized Steel, Add</i>	3.58	
	<i>For 304 Stainless Steel, Add</i>	28.43	
	<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	106.68	
	<i>For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add</i>	77.84	
	<i>For Schedule 80, Add</i>	5.23	
	<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	8.06	
32 39 13 00-0004	LF 6" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	53.88	10.33
	<i>For Galvanized Steel, Add</i>	5.65	
	<i>For 304 Stainless Steel, Add</i>	44.83	
	<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	106.68	
	<i>For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add</i>	77.84	
	<i>For Schedule 80, Add</i>	7.05	
	<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	11.42	
32 39 13 00-0005	LF 8" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	75.10	12.92
	<i>For Galvanized Steel, Add</i>	8.37	
	<i>For 304 Stainless Steel, Add</i>	66.50	
	<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	141.36	
	<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	118.07	
	<i>For Schedule 80, Add</i>	9.97	
	<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	15.24	
32 39 13 00-0006	LF 10" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	98.41	15.51
	<i>For Galvanized Steel, Add</i>	11.46	
	<i>For 304 Stainless Steel, Add</i>	90.99	
	<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	162.04	
	<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	128.06	
	<i>For Schedule 80, Add</i>	13.21	
	<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	18.67	
32 39 13 00-0007	LF 12" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	124.98	20.67
	<i>For Galvanized Steel, Add</i>	14.22	
	<i>For 304 Stainless Steel, Add</i>	112.91	
	<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	218.32	
	<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	176.73	
	<i>For Schedule 80, Add</i>	16.68	
	<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	21.82	

32 39 13 00-0008 Cast Bollards (32 39 13 00-0001)

32 39 13 00-0009	EA 36" Cast Aluminum Bollard, Black Powder Coat Finish	1,077.97	62.01
	Note: 8-1/2" diameter, embedded mounting plate, all colors.		
32 39 13 00-0010	EA 36" Cast Aluminum Removable Bollard, Black Powder Coat Finish	1,795.35	62.01
	Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.		
32 39 13 00-0011	EA 36" Cast Iron Bollard, Powder Coat Finish.....	919.36	62.01
	Note: 8-1/2" diameter, embedded mounting plate, all colors.		
32 39 13 00-0012	EA 36" Cast Iron Removable Bollard, Black Powder Coat Finish	1,640.99	62.01
	Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.		

32 39 23 Manufactured Concrete Bollards (32 39)

32 39 23 00-0001 Concrete Bollards (32 39 23)

Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.

32 39 23 00-0002 Concrete Bollard, Exposed Aggregate (32 39 23 00-0001)

32 39 23 00-0003	EA 12" x 12" x 30" High Concrete Bollard, Light Sandblast	535.60	82.69
	Note: Surface mounted with anchor bolts embedded into grout pockets.		
32 39 23 00-0004	EA 12" Diameter x 30" High Concrete Bollard, Light Sandblast	535.60	82.69
	Note: Surface mounted with anchor bolts embedded into grout pockets.		

32 Exterior Improvements**32 30 Site Improvements****32 39 Manufactured Site Specialties**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**32 39 25 Manufactured Wood Bollards (32 39)****32 39 25 00-0001****Wood Bollards (32 39 25)**

Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.

32 39 25 00-0002**Wood Bollard, Pressure Treated Timber (32 39 25 00-0001)**

32 39 25 00-0003	LF	4" x 4", Pressure Treated Wood Bollard	18.87	8.27
		<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	78.96	
32 39 25 00-0004	LF	6" x 6", Pressure Treated Wood Bollard	21.32	8.27
		<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	78.96	
32 39 25 00-0005	LF	8" x 8", Pressure Treated Wood Bollard	27.11	9.30
		<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	121.14	
32 39 25 00-0006	LF	10" x 10", Pressure Treated Wood Bollard	38.06	12.40
		<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	133.12	
32 39 25 00-0007	LF	12" x 12", Pressure Treated Wood Bollard	52.15	16.54
		<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	187.23	

32 39 27 Manufactured Plastic Bollards (32 39)**32 39 27 00-0001****Plastic Bollards (32 39 27)**

See CSI section 32 31 13 13-0001 for augering and filling holes for bollards., 32 31 13 13-0018 for concrete fill.

32 39 27 00-0002**Recycled Plastic Bollards (32 39 27 00-0001)**

32 39 27 00-0003	EA	6" x 6" x 33" Surface Mounted Recycled Plastic Bollard	218.65	41.34
		Note: Includes anchor bolts.		
32 39 27 00-0004	EA	6" Diameter x 6' Steel Reinforced Recycled Plastic Bollard	339.68	41.34

32 39 27 00-0005**Plastic Bollard Covers (32 39 27 00-0001)**

32 39 27 00-0006	EA	4" x 60", 1/8" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe	53.96	9.00
		<i>For Reflective Tape, Add</i>	5.71	
32 39 27 00-0007	EA	6" x 60", 1/8" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	58.52	9.90
		<i>For Reflective Tape, Add</i>	5.71	
32 39 27 00-0008	EA	3" x 60", 1/4" Thick LDPE Bollard Cover, Fits 3" To 3 1/2" Pipe	71.95	9.00
		<i>For Reflective Tape, Add</i>	5.71	
32 39 27 00-0009	EA	3-1/2" x 52", 1/4" Thick LDPE Bollard Cover, Fits 3 -1/2" To 4" Pipe	71.95	9.00
		<i>For Reflective Tape, Add</i>	5.71	
32 39 27 00-0010	EA	3-1/2" x 68", 1/4" Thick LDPE Bollard Cover, Fits 3-1/2" To 4" Pipe	80.34	9.00
		<i>For Reflective Tape, Add</i>	5.71	
32 39 27 00-0011	EA	4" x 52", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe	71.95	9.00
		<i>For Reflective Tape, Add</i>	5.71	
32 39 27 00-0012	EA	4" x 60", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe	73.15	9.00
		<i>For Reflective Tape, Add</i>	5.71	
32 39 27 00-0013	EA	5" x 52", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe	71.95	9.00
		<i>For Reflective Tape, Add</i>	5.71	
32 39 27 00-0014	EA	5" x 60", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe	73.15	9.00
		<i>For Reflective Tape, Add</i>	5.71	
32 39 27 00-0015	EA	5" x 72", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe	100.73	9.00
		<i>For Reflective Tape, Add</i>	5.71	
32 39 27 00-0016	EA	6" x 52", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	73.75	9.90
		<i>For Reflective Tape, Add</i>	5.71	
32 39 27 00-0017	EA	6" x 65", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	92.94	9.90
		<i>For Reflective Tape, Add</i>	5.71	
32 39 27 00-0018	EA	6" x 84", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	105.29	9.90
		<i>For Reflective Tape, Add</i>	5.71	
32 39 27 00-0019	EA	7" x 56", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	89.94	10.80
		<i>For Reflective Tape, Add</i>	5.71	
32 39 27 00-0020	EA	8" x 52", 1/4" Thick LDPE Bollard Cover, Fits 7" To 7-5/16" Pipe	97.13	10.80
		<i>For Reflective Tape, Add</i>	5.71	
32 39 27 00-0021	EA	8" x 69", 1/4" Thick LDPE Bollard Cover, Fits 8" To 8-5/8" Pipe	97.13	10.80
		<i>For Reflective Tape, Add</i>	5.71	
32 39 27 00-0022	EA	10" x 69", 1/4" Thick LDPE Bollard Cover, Fits 10" To 11" Pipe	129.53	10.80
		<i>For Reflective Tape, Add</i>	5.71	

32 39 29 Manufactured Stone Bollards (32 39)**32 39 29 00-0001****Stone Bollards (32 39 29)**

See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.

32 39 29 00-0002**Granite Bollards (32 39 29 00-0001)**

32 39 29 00-0003	EA	16" x 16" x 30" Granite Bollard, Smooth Matt Finish	1,101.02	103.36
		Note: Surface mounted with anchors embedded into grout pockets.		
32 39 29 00-0004	EA	16" x 16" x 54" Granite Bollard, Smooth Matt Finish	1,395.10	144.70
		Note: Surface mounted with anchors embedded into grout pockets.		
32 39 29 00-0005	EA	12" x 12" x 24" Granite Bollard, Rough Finish, Pyramid Top	684.76	103.36
		Note: Surface mounted with anchors embedded into grout pockets.		
32 39 29 00-0006	EA	12" Diameter x 18" Granite Bollard, Smooth Matt Finish	1,010.90	82.69
		Note: Flat Top, surface mounted with anchors embedded into grout pockets.		
32 39 29 00-0007	EA	24" x 24" x 20" Granite Bollard, Octagonal Cross Section	1,506.84	82.69
		Note: Smooth matt finish, flat top, surface mounted with anchors embedded into grout pockets.		



Exterior Improvements		32
Irrigation		32 80
Manufactured Site Specialties		32 39

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 80 Irrigation⁽³²⁾

32 84 Planting Irrigation^(32 80)

32 84 13 Drip Irrigation^(32 84)

32 84 13 00-0001 Drip Emitter Irrigation Devices^(32 84 13)

32 84 13 00-0002 Drip Emitter Irrigation Valves^(32 84 13 00-0001)

32 84 13 00-0003	EA	1/2" Air/Vacuum Relief Valve For Drip Emitter Irrigation Systems (Rain Bird® ARV050)	36.59	9.55
32 84 13 00-0004	EA	1", Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV100)	51.11	9.55
32 84 13 00-0005	EA	3/4", Anti-Siphon, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075)	50.10	9.55
32 84 13 00-0006	EA	3/4", Latching Solenoid, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075TBOS)	63.74	9.55

32 84 13 00-0007 Drip Emitter Irrigation Filters^(32 84 13 00-0001)

32 84 13 00-0008	EA	3/4" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-075)	92.57	9.55
32 84 13 00-0009	EA	1" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-100)	93.32	9.55
32 84 13 00-0010	EA	3/4" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY075MPTX)	42.93	9.55
32 84 13 00-0011	EA	1" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY100MPTX)	43.54	9.55
32 84 13 00-0012	EA	1" Inlet/Outlet, Pressure Regulating, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® PRB-QCHK-100)	99.55	9.55
32 84 13 00-0013	EA	3/4" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF075RBY)	51.96	9.55
32 84 13 00-0014	EA	1" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF100RBY)	56.66	9.55

32 84 13 00-0015 Drip Emitter Irrigation Pressure Regulators^(32 84 13 00-0001)

32 84 13 00-0016	EA	3/4", 6 To 300 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-L30X-075)	42.33	9.55
32 84 13 00-0017	EA	3/4", 120 To 600 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M30X-075)	42.33	9.55
32 84 13 00-0018	EA	3/4", 120 To 600 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-075)	42.33	9.55
32 84 13 00-0019	EA	1", 120 To 900 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-100)	47.27	9.55

32 84 13 00-0020 Drip Emitter Irrigation Tubing^(32 84 13 00-0001)

Note: Includes surface installation and covering of tubing with existing pine straw, pine bark etc.

32 84 13 00-0021	LF	1/4", Landscape Dripline With Extruded Non-Pressure Compensating Drip Emitters (Rain Bird® LDQ0806100)	3.29	1.34
32 84 13 00-0022	LF	1/2", Landscape Dripline With Extruded Pressure Compensating Drip Emitters (Rain Bird® XFD0612100)	3.23	1.53
32 84 13 00-0023	LF	1/4", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XQ100)	2.81	1.34
			5.50	
For Shallow Trenching And Backfill By Hand, Add				
32 84 13 00-0024	LF	1/2", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XT700100)	3.21	1.53
For Shallow Trenching And Backfill By Hand, Add			5.94	

32 84 13 00-0025 Drip Emitter Irrigation Fittings^(32 84 13 00-0001)

32 84 13 00-0026	EA	1/4", Barbed Coupling For Irrigation Tubing (Rain Bird® XBF1CONN)	2.48	
32 84 13 00-0027	EA	1/4", Barbed Elbow For Irrigation Tubing (Rain Bird® XBF2EL)	2.50	
32 84 13 00-0028	EA	1/4", Barbed Tee For Irrigation Tubing (Rain Bird® XBF3TEE)	2.52	
32 84 13 00-0029	EA	1/4", Self Piercing Barbed Coupling For Irrigation Tubing (Rain Bird® SPB025)	2.61	
32 84 13 00-0030	EA	1/4", Plug For Irrigation Tubing (Rain Bird® EMAGPX)	2.47	
32 84 13 00-0031	EA	17mm, Barbed Coupling For Irrigation Tubing (Rain Bird® XFFCOUP)	2.57	
For Compression Fitting, Add			0.18	
32 84 13 00-0032	EA	17mm, Barbed Elbow For Irrigation Tubing (Rain Bird® XFF-ELBOW)	2.62	
For Compression Fitting, Add			0.23	
32 84 13 00-0033	EA	17mm, Barbed Tee For Irrigation Tubing (Rain Bird® XFF-TEE)	2.65	
For Compression Fitting, Add			0.26	
32 84 13 00-0034	EA	17mm, Barbed Male Adapter For Irrigation Tubing (Rain Bird® XFFMA050)	2.66	
For Compression Fitting, Add			0.27	
32 84 13 00-0035	EA	17mm, Barbed Cross For Irrigation Tubing (Rain Bird® XFDCROSS)	2.77	
For Compression Fitting, Add			0.38	
32 84 13 00-0036	EA	1/2", Plug For Irrigation Tubing (Rain Bird® MDCFCAP)	2.89	
32 84 13 00-0037	EA	12 Gauge, Galvanized Stake For Irrigation Tubing (Rain Bird® TDS050BEND)	1.44	

32 84 13 00-0038 Drip Emitters^(32 84 13 00-0001)

32 84 13 00-0039	EA	0.5 To 2 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB20PC)	5.06	
32 84 13 00-0040	EA	5 To 24 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® PC24)	5.54	
32 84 13 00-0041	EA	0.5 To 2 GPH, Six Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB056)	10.56	

32 84 13 00-0042 Drip Emitter Irrigation Micro-Bubblers, Sprays And Misters^(32 84 13 00-0001)

32 84 13 00-0043	EA	Adjustable Stream Bubbler With Spike For Drip Emitter Irrigation Systems (Rain Bird® SXB360SPYK)	19.85	8.60
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32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 13 00-0044 EA Adjustable Micro Spray With Spike For Drip Emitter Irrigation Systems (Rain Bird® XS360TSPYK)	19.88	8.60
32 84 13 00-0045 EA 12" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP12 With SQFUL).....	21.20	8.60
32 84 13 00-0046 EA 24" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP24 With SQFUL).....	21.35	8.60
32 84 13 00-0047 EA 4" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-400X With SQFUL)	30.01	11.27
32 84 13 00-0048 EA 6" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-600X With SQFUL)	31.72	11.27
32 84 13 00-0049 EA 12" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP1200X With SQFUL).....	29.93	11.27
Note: Includes nozzle.		
32 84 13 00-0050 Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS) ^(32 84 13 00-0001)		
Note: Brown or purple tubing. Includes layout, trenching 4" to 6", installing tubing and backfilling trench.		
32 84 13 00-0051 LF 0.536" ID, 0.634" OD, Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS Copper Shield)	3.69	1.67
32 84 23 Underground Sprinklers ^(32 84)		
32 84 23 00-0001 Sprinkler Heads ^(32 84 23)		
32 84 23 00-0002 Spray Sprinkler Heads ^(32 84 23 00-0001)		
Note: Includes plastic riser and case. Includes spray, variable arc or bubbler nozzle with partial or full circle coverage.		
32 84 23 00-0003 EA 2" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1802P)	26.84	10.55
For Rotary Nozzle, Add	3.25	
32 84 23 00-0004 EA 4" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1804P)	25.87	10.55
For Rotary Nozzle, Add	3.25	
32 84 23 00-0005 EA 6" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1806P)	29.46	10.55
For Rotary Nozzle, Add	3.25	
32 84 23 00-0006 EA 12" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1812P)	32.47	10.55
For Rotary Nozzle, Add	3.25	
32 84 23 00-0007 EA 4" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1804-SAM)	27.22	10.55
For Rotary Nozzle, Add	3.25	
32 84 23 00-0008 EA 6" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1806-SAM)	32.28	10.55
For Rotary Nozzle, Add	3.25	
32 84 23 00-0009 EA 12" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1812-SAM)	34.72	10.55
For Rotary Nozzle, Add	3.25	
32 84 23 00-0010 EA 4" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1804-PRS)	28.66	10.55
For Rotary Nozzle, Add	3.25	
32 84 23 00-0011 EA 6" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1806-PRS)	33.27	10.55
For Rotary Nozzle, Add	3.25	
32 84 23 00-0012 EA 12" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1812-PRS)	35.55	10.55
For Rotary Nozzle, Add	3.25	
32 84 23 00-0013 EA 4" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1804-SAM-PRS).....	29.24	10.55
For Rotary Nozzle, Add	3.25	
32 84 23 00-0014 EA 6" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1806-SAM-PRS).....	36.32	10.55
For Rotary Nozzle, Add	3.25	
32 84 23 00-0015 EA 12" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1812-SAM-PRS).....	38.56	10.55
For Rotary Nozzle, Add	3.25	
32 84 23 00-0016 EA Bubbler Head With Screen, 1/2" NPT (Rain Bird® 1300)	23.98	10.55
For Rotary Nozzle, Add	3.25	
32 84 23 00-0017 EA Pressure Compensating Bubbler With Screen, 1/2" NPT (Rain Bird® 1400).....	26.23	10.55
32 84 23 00-0018 Gear-Drive, Rotary Sprinkler Heads ^(32 84 23 00-0001)		
Note: Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0019 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Heads ^(32 84 23 00-0018)		
Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0020 EA 4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 3504PC).....	33.95	10.55
For Non-Potable Cover, Add	2.00	
32 84 23 00-0021 EA 4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 3504-PC-SAM)	34.75	10.55
For Non-Potable Cover, Add	2.00	
32 84 23 00-0022 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Heads ^(32 84 23 00-0018)		
Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0023 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5004-PLPC)	32.03	10.55
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0024 EA 6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5006-PLPC)	40.67	10.55
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0025 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5004-PLPCS)	33.63	10.55
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0026 EA 6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5006-PLPCS)	41.95	10.55
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	



		Exterior Improvements	32
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0027 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Pressure Regulator (Rain Bird® 5004+PCR).....	34.27	10.55
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0028 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5004+FCSR).....	35.55	10.55
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0029 EA 6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5006+PCSR).....	43.87	10.55
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0030 EA 12" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5012+PCSR).....	49.00	10.55
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0031 EA Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5000S-PLPCS).....	35.39	10.55
For Non-Potable Cover, Add	2.00	
32 84 23 00-0032 EA Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5000S+PCSR).....	40.51	10.55
For Non-Potable Cover, Add	2.00	
32 84 23 00-0033 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018)		
Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0034 EA 4" Pop-Up Height, 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® F4PC).....	52.68	10.55
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
For Stainless Steel Riser And High Speed Rotor, Add	23.57	
32 84 23 00-0035 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018)		
Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0036 EA 5" Pop-Up Height, 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 8005).....	71.25	10.55
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0037 Impact-Drive Sprinkler Heads (32 84 23 00-0001)		
Note: Includes partial or full circle coverage. Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0038 EA 1/2" Inlet, Up To 45' Spacing, Pop-Up, Impact-Drive Rotary Sprinkler Head (Rain Bird® 2045A-08).....	43.71	10.55
For Non-Potable Cover, Add	2.00	
32 84 23 00-0039 EA 1/2" Inlet, Up To 45' Spacing, Riser Mounted, Plastic Body, Impact-Drive Sprinkler Head (Rain Bird® 2045-PJ08).....	36.03	10.55
32 84 23 00-0040 EA 3/4" Inlet, Up To 51' Spacing, Riser Mounted, Brass/Bronze Body, Impact-Drive Sprinkler Head (Rain Bird® 35A-ADJ-TNTB).....	61.63	10.55
32 84 23 00-0041 Electric Remote Control Irrigation Valves (32 84 23)		
32 84 23 00-0042 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® DV Series) (32 84 23 00-0041)		
Note: 15 to 150 PSI.		
32 84 23 00-0043 EA 3/4", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 75DV).....	113.10	43.98
32 84 23 00-0044 EA 1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DV).....	113.10	43.98
32 84 23 00-0045 EA 1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DVSS).....	125.67	50.14
32 84 23 00-0046 EA 1", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Angle Valve (Rain Bird® 100DVA).....	113.74	43.98
32 84 23 00-0047 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves With Flow Control (Rain Bird® DVF Series) (32 84 23 00-0041)		
Note: 15 to 150 PSI.		
32 84 23 00-0048 EA 1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVF).....	113.74	43.98
32 84 23 00-0049 EA 1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFSS).....	126.63	50.14
32 84 23 00-0050 EA 1", 0.2 To 40 GPM, Male x Barb, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFMB).....	127.27	50.14
32 84 23 00-0051 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® PEB Series) (32 84 23 00-0041)		
Note: 20 to 200 PSI.		
32 84 23 00-0052 EA 1", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100PEB).....	164.97	43.98
32 84 23 00-0053 EA 1-1/2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 150PEB).....	187.39	43.98
32 84 23 00-0054 EA 2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 200PEB).....	216.21	43.98
32 84 23 00-0055 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® PEB PRS-D Series) (32 84 23 00-0041)		
Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0056	EA		1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100PEB PRS-D).....	225.23	49.43
32 84 23 00-0057	EA		1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150PEB PRS-D).....	247.64	49.43
32 84 23 00-0058	EA		2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200PEB PRS-D).....	276.46	49.43
32 84 23 00-0059			20 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator And Scrubber Valve (Rain Bird® PESB PRS-D Series) <i>(32 84 23 00-0041)</i>		
			Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0060	EA		1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 100PESB PRS-D).....	257.25	49.43
32 84 23 00-0061	EA		1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 150PESB PRS-D).....	279.66	49.43
32 84 23 00-0062	EA		2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 200PESB PRS-D).....	308.48	49.43
32 84 23 00-0063			0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves (Hunter IBV Series) <i>(32 84 23 00-0041)</i>		
			Note: 20 to 200 PSI operating range pressure.		
32 84 23 00-0064	EA		1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B).....	228.73	43.98
32 84 23 00-0065	EA		1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B).....	331.77	43.98
32 84 23 00-0066	EA		2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B).....	341.09	43.98
32 84 23 00-0067	EA		3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B).....	766.54	59.37
32 84 23 00-0068			5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Rain Bird® EFB-CP Series) <i>(32 84 23 00-0041)</i>		
			Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0069	EA		1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 100EFB-CP).....	218.28	49.43
32 84 23 00-0070	EA		1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 125EFB-CP).....	248.92	49.43
32 84 23 00-0071	EA		1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 150EFB-CP).....	282.19	49.43
32 84 23 00-0072	EA		2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 200EFB-CP).....	326.00	49.43
32 84 23 00-0073			0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Hunter IBV FS Series) <i>(32 84 23 00-0041)</i>		
			Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0074	EA		1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B-FS).....	275.88	49.43
32 84 23 00-0075	EA		1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B-FS).....	398.14	49.43
32 84 23 00-0076	EA		2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B-FS).....	408.62	49.43
32 84 23 00-0077	EA		3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B-FS).....	808.01	49.43
32 84 23 00-0078			0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV ACCU-SYNC Series) <i>(32 84 23 00-0041)</i>		
			Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0079	EA		1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-101G-B ACCU-SYNC-ADJ).....	275.30	43.98
32 84 23 00-0080	EA		1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-151G-B ACCU-SYNC-ADJ).....	378.35	43.98
32 84 23 00-0081	EA		2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-201G-B ACCU-SYNC-ADJ).....	387.67	43.98
32 84 23 00-0082	EA		3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-301G-B ACCU-SYNC-ADJ).....	813.11	59.37
32 84 23 00-0083			5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® EFB-CP PRS-D Series) <i>(32 84 23 00-0041)</i>		
			Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0084	EA		1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100EFB-CP PRS-D).....	266.31	49.43
32 84 23 00-0085	EA		1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 125EFB-CP PRS-D).....	296.95	49.43
32 84 23 00-0086	EA		1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150EFB-CP PRS-D).....	330.22	49.43
32 84 23 00-0087	EA		2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200EFB-CP PRS-D).....	374.03	49.43



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0088 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV FS ACCU-SYNC Series) <small>(32 84 23 00-0041)</small>		
Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0089 EA 1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-101G-B-FS ACCU-SYNC-ADJ).....	322.45	49.43
32 84 23 00-0090 EA 1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-151G-B-FS ACCU-SYNC-ADJ).....	444.71	49.43
32 84 23 00-0091 EA 2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-201G-B-FS ACCU-SYNC-ADJ).....	455.19	49.43
32 84 23 00-0092 EA 3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-301G-B-FS ACCU-SYNC-ADJ).....	854.58	49.43
32 84 23 00-0093 Other Electric Remote Control Valves/Accessories <small>(32 84 23 00-0041)</small>		
32 84 23 00-0094 EA Pressure Regulator Module For Electric Remote Control Valves (Rain Bird® PRS-DIAL).....	83.22	
32 84 23 00-0095 Remote Control Valve Assemblies <small>(32 84 23 00-0041)</small>		
Note: Includes excavation and disposal of soil, installation of 6" minimum depth gravel or crushed rock, woven wire cloth, valve, fittings, valve box (Carson 1419-12), as detailed in the Caltrans Standard Plans 2010 page 224.		
32 84 23 00-0096 EA 1" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	383.30	109.95
32 84 23 00-0097 EA 1-1/2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	405.71	109.95
32 84 23 00-0098 EA 2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	434.53	109.95
32 84 23 00-0099 EA 1" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	415.32	109.95
Note: Purple components for use with recycled water		
32 84 23 00-0100 EA 1-1/2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	437.73	109.95
Note: Purple components for use with recycled water		
32 84 23 00-0101 EA 2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	466.55	109.95
Note: Purple components for use with recycled water		
32 84 23 00-0102 EA 1" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	424.38	109.95
Note: Purple components for use with recycled water		
32 84 23 00-0103 EA 1-1/2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	488.29	109.95
Note: Purple components for use with recycled water		
32 84 23 00-0104 EA 2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	532.10	109.95
Note: Purple components for use with recycled water		
32 84 23 00-0105 Irrigation Valve Boxes <small>(32 84 23)</small>		
Note: Includes lid.		
32 84 23 00-0106 EA 6" Round Irrigation Valve Box With Lid (Rain Bird® PVB-6RND).....	72.86	31.66
32 84 23 00-0107 EA 7" Round Irrigation Valve Box With Lid (Rain Bird® VB-7RND).....	80.43	31.66
32 84 23 00-0108 EA 10" Round Irrigation Valve Box With Lid (Rain Bird® VB-10RND).....	105.62	41.70
32 84 23 00-0109 EA 21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-STD).....	176.40	60.86
32 84 23 00-0110 EA 21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-STDH).....	179.25	60.86
32 84 23 00-0111 EA 26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-JMB).....	199.66	60.86
32 84 23 00-0112 EA 26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-JMBH).....	202.09	60.86
32 84 23 00-0113 EA 33.1" x 23.8" x 15" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-SPRH).....	318.75	60.86
32 84 23 00-0114 EA 40.3" x 27.1" x 18" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-MAXH).....	469.85	60.86
32 84 23 00-0115 EA Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Concrete Lid.....	314.83	105.17
For 12" Extension, Add	63.20	
32 84 23 00-0116 EA Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Steel Lid.....	463.27	105.17
For 12" Extension, Add	63.20	
32 84 23 00-0117 EA 12" x 17" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1419-12).....	144.01	52.77
32 84 23 00-0118 EA 15" x 21" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1220-12).....	200.94	60.86
32 84 23 00-0119 EA 10" Round Irrigation Valve Box With Lid (Carson 910-10).....	113.39	41.70
32 84 23 00-0120 Irrigation Controllers <small>(32 84 23)</small>		
See CSI section 27 14 13 16-0256 for low voltage wiring.		
32 84 23 00-0121 Irrigation Controllers <small>(32 84 23 00-0120)</small>		
32 84 23 00-0122 Irrigation Controllers (Rain Bird®) <small>(32 84 23 00-0121)</small>		
32 84 23 00-0123 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP Series) <small>(32 84 23 00-0122)</small>		
32 84 23 00-0124 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) <small>(32 84 23 00-0123)</small>		
32 84 23 00-0125 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-MEI Series) <small>(32 84 23 00-0124)</small>		
32 84 23 00-0126 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	215.93	28.05

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0127 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	302.84	28.05
32 84 23 00-0128 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	389.75	28.05
32 84 23 00-0129 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	476.65	28.05
32 84 23 00-0130 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	535.51	28.05
32 84 23 00-0131 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	625.92	28.05
32 84 23 00-0132 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	716.34	28.05
32 84 23 00-0133 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0124)		
32 84 23 00-0134 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	242.35	28.05
32 84 23 00-0135 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	329.26	28.05
32 84 23 00-0136 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	414.17	28.05
32 84 23 00-0137 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	503.07	28.05
32 84 23 00-0138 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	561.93	28.05
32 84 23 00-0139 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	652.34	28.05
32 84 23 00-0140 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	742.76	28.05
32 84 23 00-0141 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0123)		
32 84 23 00-0142 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTEI Series) (32 84 23 00-0141)		
32 84 23 00-0143 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	307.71	28.05
32 84 23 00-0144 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	394.62	28.05
32 84 23 00-0145 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	481.53	28.05
32 84 23 00-0146 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	568.43	28.05
32 84 23 00-0147 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	627.29	28.05
32 84 23 00-0148 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	717.70	28.05
32 84 23 00-0149 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	808.12	28.05
32 84 23 00-0150 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0141)		
32 84 23 00-0151 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	327.51	28.05
32 84 23 00-0152 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	414.42	28.05
32 84 23 00-0153 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	501.33	28.05
32 84 23 00-0154 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	588.23	28.05
32 84 23 00-0155 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	647.09	28.05
32 84 23 00-0156 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	737.50	28.05
32 84 23 00-0157 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	827.92	28.05
32 84 23 00-0158 Accessories For ESP-ME/MEI Irrigation Controllers (32 84 23 00-0123)		
32 84 23 00-0159 EA 3-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM3).....	90.41	
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0160 EA 6-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM6).....	175.32	
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0161 EA Smart Controller Upgrade Kit For ESP Series Irrigation Controllers (Rain Bird® ESPSMTEUPG).....	197.99	
32 84 23 00-0162 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Series) (32 84 23 00-0122)		
32 84 23 00-0163 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Basic Series) (32 84 23 00-0162)		
32 84 23 00-0164 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	485.72	28.05
32 84 23 00-0165 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	593.69	28.05
32 84 23 00-0166 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	702.93	28.05
32 84 23 00-0167 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	810.90	28.05
32 84 23 00-0168 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	920.15	28.05
32 84 23 00-0169 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,028.11	28.05
32 84 23 00-0170 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,137.36	28.05
32 84 23 00-0171 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,245.32	28.05
32 84 23 00-0172 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,354.57	28.05
32 84 23 00-0173 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,462.54	28.05
32 84 23 00-0174 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LXME Series) (32 84 23 00-0162)		
32 84 23 00-0175 EA 8-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	454.64	28.05
32 84 23 00-0176 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	562.60	28.05
32 84 23 00-0177 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	671.85	28.05
32 84 23 00-0178 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	779.81	28.05
32 84 23 00-0179 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	889.06	28.05
32 84 23 00-0180 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	997.03	28.05



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0181 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,106.27	28.05
32 84 23 00-0182 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,214.24	28.05
32 84 23 00-0183 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,323.48	28.05
32 84 23 00-0184 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,431.45	28.05
32 84 23 00-0185 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,540.71	28.05
32 84 23 00-0186 Accessories For ESP-LX/LXME Irrigation Controllers (32 84 23 00-0162)		
32 84 23 00-0187 EA Powder Coated Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMM)	303.99	
32 84 23 00-0188 EA Powder Coated Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMPED + LXMM)	694.47	
Note: Excludes concrete foundation.		
32 84 23 00-0189 EA Stainless Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSS)	627.55	
32 84 23 00-0190 EA Stainless Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSSPED + LXMMSS)	1,386.44	
Note: Excludes concrete foundation.		
32 84 23 00-0191 EA 4-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM4)	107.97	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0192 EA 8-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM8)	217.21	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0193 EA 12-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM12)	333.99	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0194 EA Flow Smart Water Management Module For ESP-LXME Irrigation Controllers (Rain Bird® FSM-LXME)	116.97	
32 84 23 00-0195 Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0122)		
32 84 23 00-0196 Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0195)		
32 84 23 00-0197 EA 1-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series)	218.70	28.05
32 84 23 00-0198 EA 2-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series)	269.18	28.05
32 84 23 00-0199 EA 4-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series)	348.35	28.05
32 84 23 00-0200 Accessories For TBOS-II Series Irrigation Controllers (32 84 23 00-0195)		
32 84 23 00-0201 EA Field Transmitter For TBOS-II Series Irrigation Controllers (Rain Bird® TBOS2FTUS)	224.25	
32 84 23 00-0202 EA Potted Latching Solenoid For TBOS-II Series Irrigation Controllers (Rain Bird® TBOSPSOL)	61.98	21.04
32 84 23 00-0203 Accessories For Irrigation Controllers (Rain Bird®) (32 84 23 00-0122)		
32 84 23 00-0204 EA Wired Rain Sensor For Irrigation Controllers (Rain Bird® RSDBEX)	105.29	21.04
32 84 23 00-0205 EA Wireless Rain Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RC)	199.85	21.04
32 84 23 00-0206 EA Wireless Rain/Freeze Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RFC)	207.53	21.04
32 84 23 00-0207 EA Soil Moisture Sensor And Controller Interface For Irrigation Controllers (Rain Bird® SMRT-Y)	274.17	21.04
32 84 23 00-0208 Two-Wire Decoder Systems (32 84 23 00-0120)		
32 84 23 00-0209 Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0208)		
32 84 23 00-0210 Controllers For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series) (32 84 23 00-0209)		
Note: Includes water resistant cabinet.		
32 84 23 00-0211 EA 50-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	1,244.26	28.05
32 84 23 00-0212 EA 125-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	1,933.78	28.05
32 84 23 00-0213 EA 200-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	2,623.31	28.05
32 84 23 00-0214 Field Decoders For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		
32 84 23 00-0215 EA One Individual Valve Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD101TURF)	163.78	28.05
32 84 23 00-0216 EA One Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD102TURF)	205.99	28.05
32 84 23 00-0217 EA Two Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD202TURF)	301.57	28.05
32 84 23 00-0218 EA Up To Four Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD401TURF)	355.89	28.05
32 84 23 00-0219 EA Up To Six Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD601TURF)	567.04	28.05
32 84 23 00-0220 Accessories For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		
32 84 23 00-0221 EA 50-Station Replacement Base Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® MOD50-LXD)	952.31	
32 84 23 00-0222 EA 75-Station Expansion Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® SPLXDSM75)	689.52	
32 84 23 00-0223 EA Line Surge Protection For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® LSP1TURF)	125.30	24.55
32 84 23 00-0224 EA Sensor Decoder Interface For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® SD210TURF)	476.98	28.05
32 84 23 00-0225 Calsense Controllers (32 84 23 00-0120)		
32 84 23 00-0226 Irrigation Controllers (32 84 23 00-0225)		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0227	EA		6 Station ET-Driven Irrigation Controller (Calsense ET2000E-6).....	1,584.33	70.13
32 84 23 00-0228	EA		8 Station ET-Driven Irrigation Controller (Calsense ET2000E-8).....	2,038.44	78.89
32 84 23 00-0229	EA		12 Station ET-Driven Irrigation Controller (Calsense ET2000E-12).....	2,788.08	87.66
32 84 23 00-0230	EA		16 Station ET-Driven Irrigation Controller (Calsense ET2000E-16).....	3,063.46	87.66
32 84 23 00-0231	EA		24 Station ET-Driven Irrigation Controller (Calsense ET2000E-24).....	3,618.33	96.43
32 84 23 00-0232	EA		32 Station ET-Driven Irrigation Controller (Calsense ET2000E-32).....	4,357.15	96.43
32 84 23 00-0233	EA		40 Station ET-Driven Irrigation Controller (Calsense ET2000E-40).....	4,932.15	105.20
32 84 23 00-0234	EA		48 Station ET-Driven Irrigation Controller (Calsense ET2000E-48).....	5,516.49	105.20
32 84 23 00-0235	EA		Upgrade Existing Calsense Controller To ET2000E (Calsense ET2000E-UPGRADE).....	1,596.63	35.07
32 84 23 00-0236	EA		Upgrade Existing Calsense Controller With 8 Additional Stations (Calsense STATION UPGRADE).....	680.73	35.07
32 84 23 00-0237			Irrigation Controller Accessories (32 84 23 00-0225)		
32 84 23 00-0238	EA		Set Of 10 Keys For Calsense Controllers Or Enclosures (Calsense KEY-1).....	64.48	
32 84 23 00-0239	EA		Spare Lock For Enclosures (Calsense PAD).....	69.85	
32 84 23 00-0240	EA		Hardware And Software For Up To 4 Additional Light Circuits (Calsense L).....	87.38	8.77
32 84 23 00-0241	EA		Transformer For Irrigation Controllers (Calsense TR-1).....	137.30	35.07
32 84 23 00-0242	EA		AC Line Protection For Irrigation Controllers (Calsense TP-110).....	345.51	35.07
32 84 23 00-0243	EA		Transient Protection Board For Irrigation Controller Stations (Calsense TP-1).....	452.98	35.07
			<i>For Outdoor Gray Powder Coated Stainless Steel Enclosure, Add</i>	339.41	
32 84 23 00-0244			Sensors For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0245			Flow Sensors (32 84 23 00-0244)		
32 84 23 00-0246	EA		1-1/2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 1.5).....	790.29	52.59
			<i>For Flow Meter Replacement Insert Only, Deduct</i>	-425.15	
32 84 23 00-0247	EA		2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 2).....	817.16	52.59
			<i>For Flow Meter Replacement Insert Only, Deduct</i>	-452.02	
32 84 23 00-0248	EA		3" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 3).....	844.03	52.59
			<i>For Flow Meter Replacement Insert Only, Deduct</i>	-478.89	
32 84 23 00-0249	EA		1" Brass Tee Mounted Flow Meter (Calsense FM 1B).....	939.54	70.13
			<i>For Flow Meter Replacement Insert Only, Deduct</i>	-574.19	
32 84 23 00-0250	EA		1-1/4" Brass Tee Mounted Flow Meter (Calsense FM 1.25B).....	1,006.70	70.13
			<i>For Flow Meter Replacement Insert Only, Deduct</i>	-641.35	
32 84 23 00-0251	EA		1-1/2" Brass Tee Mounted Flow Meter (Calsense FM 1.5B).....	1,033.57	70.13
			<i>For Flow Meter Replacement Insert Only, Deduct</i>	-668.22	
32 84 23 00-0252	EA		2" Brass Tee Mounted Flow Meter (Calsense FM 2B).....	1,208.20	70.13
			<i>For Flow Meter Replacement Insert Only, Deduct</i>	-714.57	
32 84 23 00-0253	EA		2" Pipe Saddle Mounted Insertion Flow Meter (Calsense FMBX).....	929.85	35.07
			<i>Note: For 4" and larger pipe. Excludes pipe saddle.</i>		
			<i>For Flow Meter Replacement Insert Only, Deduct</i>	-436.22	
32 84 23 00-0254			Moisture Sensors (32 84 23 00-0244)		
32 84 23 00-0255	EA		Soil Moisture Sensor (Calsense 1000-S).....	334.69	26.30
32 84 23 00-0256			Weather Sensors (32 84 23 00-0244)		
32 84 23 00-0257	EA		Wind Gage, Irrigation Weather Sensor (Calsense WG-1).....	912.67	70.13
32 84 23 00-0258	EA		Tipping Rain Bucket, Irrigation Weather Sensor (Calsense RB-1).....	1,079.80	140.26
32 84 23 00-0259	EA		ET Gage, Irrigation Weather Sensor (Calsense ETG).....	2,057.44	105.20
32 84 23 00-0260			Weather Sensor Accessories (32 84 23 00-0244)		
32 84 23 00-0261	EA		Replacement Ceramic Cup For ET Gage Weather Sensor (Calsense ETG-C).....	607.46	
32 84 23 00-0262	EA		Replacement Circuit Board For ET Gage Weather Sensor (Calsense ETG-PCB).....	1,131.35	
32 84 23 00-0263	EA		Vandal Resistant Mounting Base For ET Gage Enclosure (Calsense ETGE-BASE).....	607.46	35.07
32 84 23 00-0264	EA		Vandal Resistant Stainless Steel Enclosure For ET Gage (Calsense ETGE).....	1,371.67	35.07
32 84 23 00-0265			Antennas For Irrigation Controllers (32 84 23 00-0225)		
			<i>Note: Excludes antenna cable.</i>		
32 84 23 00-0266	EA		Local Radio Dome Antenna (Calsense LR-DOME).....	325.36	35.07
32 84 23 00-0267	EA		Local Radio Stick Antenna (Calsense LR-STICK).....	466.41	35.07
32 84 23 00-0268	EA		Local Radio Yagi Antenna (Calsense LR-YAGI).....	536.54	70.13
32 84 23 00-0269	EA		Local Radio And Calsense Radio, Remote Dome Antenna (Calsense LR-DOME-RR).....	325.36	35.07
32 84 23 00-0270	EA		Local Radio And Calsense Radio, Enhanced Remote Dome Antenna (Calsense LR-DOME-RRE).....	325.36	35.07
32 84 23 00-0271	EA		GPRS Stubby Antenna (Calsense GR-STUBBY).....	325.36	35.07
32 84 23 00-0272	EA		GPRS Stick Antenna (Calsense GR-STICK).....	466.41	35.07
32 84 23 00-0273	EA		Spread Spectrum Dome Antenna (Calsense SR-DOME).....	325.36	35.07
32 84 23 00-0274	EA		Spread Spectrum Stick Antenna (Calsense SR-STICK).....	466.41	35.07
32 84 23 00-0275	EA		Spread Spectrum Yagi Antenna (Calsense SR-YAGI).....	536.54	70.13
32 84 23 00-0276	EA		Spread Spectrum And Calsense Radio, Remote Dome Antenna (Calsense SR-DOME-RR).....	325.36	35.07
32 84 23 00-0277	EA		Spread Spectrum And Calsense Radio, Enhanced Remote Dome Antenna (Calsense SR-DOME-RRE).....	325.36	35.07
32 84 23 00-0278	EA		Spread Spectrum Stubby Antenna (Calsense SR-STUBBY).....	325.36	35.07
32 84 23 00-0279	EA		WiFi Stubby Antenna (Calsense WEN-STUBBY).....	325.36	35.07
32 84 23 00-0280	LF		Antenna Cable With End Connectors (Calsense LMR-400-DB).....	8.63	0.42
32 84 23 00-0281	EA		Surge Protection Device For Antenna (Calsense ANT-PROT).....	317.17	17.53
32 84 23 00-0282	EA		5' High, Non-Penetrating, Antenna Tripod Mount (Calsense ANT-TRIPS).....	520.14	35.07
32 84 23 00-0283	EA		3' Antenna Stand Off Mount For 3' Maximum Tower Leg (Calsense ANT-SOM).....	436.58	



		Exterior Improvements	32
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0284 EA Local Radio Frequency Filter (Calsense LR-FILTER).....	617.93	
32 84 23 00-0285 EA Spread Spectrum Frequency Filter (Calsense SR-FILTER)	456.73	
32 84 23 00-0286 Pedestals And Enclosures For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0287 EA 15 Amp, Circuit Breaker With Enclosure For Irrigation Controllers (Calsense SSE-BREAKER).....	306.70	52.59
32 84 23 00-0288 EA Standard Gray Powder Coated Stainless Steel Controller Enclosure (Calsense C-BOX)	724.86	87.66
32 84 23 00-0289 EA Indoor Wall Mount, Stainless Steel Back Panel (Calsense SSBP)	775.37	35.07
Note: Includes GFI and receptacle.		
32 84 23 00-0290 EA Standard Gray Powder Coated Stainless Steel Pedestal (Calsense PD-1).....	919.03	26.30
Note: Includes factory installed transient protection board and AC line protection.		
32 84 23 00-0291 EA Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE).....	2,854.33	26.30
Note: Includes factory installed transient protection board and AC line protection.		
32 84 23 00-0292 EA Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-R).....	3,222.83	26.30
Note: Includes factory installed transient protection board, AC line protection and dome antenna.		
32 84 23 00-0293 EA Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D)	4,682.87	52.59
Note: Includes factory installed transient protection boards and AC line protection. Pre-wired for two controllers.		
32 84 23 00-0294 EA Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D-R)	4,907.26	52.59
Note: Includes factory installed transient protection boards, AC line protection and dome antenna. Pre-wired for two controllers.		
32 84 23 00-0295 EA Bolt Mounting Template For Heavy-Duty Stainless Steel Enclosures (Calsense SSE-CAM)	164.07	
32 84 23 00-0296 EA Stainless Steel Fully Enclosed Riser For Calsense SSE Enclosures (Calsense SSE-PED)	529.47	
32 84 23 00-0297 Central Computer For Irrigation Control Systems (32 84 23 00-0225)		
32 84 23 00-0298 EA Central Computer For Irrigation Control Systems (Calsense COMP-2).....	3,599.40	
Note: Includes a minimum of 133 MHz Pentium, 32 Meg Ram, 1.2 GB hard drive, 14.4 modem and a printer. Excludes Command Center Water Management software.		
32 84 23 00-0299 EA Command Center Water Management Software For Central Computer (Calsense COMM-1).....	6,359.31	
32 84 23 00-0300 EA Up To 5 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-5).....	1,225.74	
Note: Package price for up to 5 users. Includes remote communication through internet connection.		
32 84 23 00-0301 EA >5 To 10 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-10)	2,402.38	
Note: Package price for 6 to 10 users. Includes remote communication through internet connection.		
32 84 23 00-0302 EA Data Logger With Phone Modem For Irrigation Control Systems (Calsense DL-2)	3,864.31	
32 84 23 00-0303 EA GPRS Radio For Use At Central Computer (Calsense DTR-G)	2,308.07	
32 84 23 00-0304 Data Access Service (32 84 23 00-0225)		
32 84 23 00-0305 EA 1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN)	19.54	
Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0306 EA 1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR)	213.71	
Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0307 EA 5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR)	915.90	
Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0308 EA 1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN-M).....	79.38	
Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0309 EA 1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR-M).....	854.84	
Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0310 EA 5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR-M).....	3,663.60	
Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0311 Communication Options For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0312 EA FCC License Fee (Calsense).....	138.87	
32 84 23 00-0313 EA P.C.I.A. And/Or A.P.C.O. Fee (Calsense).....	260.99	
Note: Per frequency or frequency pair.		
32 84 23 00-0314 EA Hardware Communication Option For Irrigation Controllers (Calsense M).....	708.30	
Note: Allows multiple controllers to be chained together via a communications cable and share one phone line.		
32 84 23 00-0315 EA Phone Line Communication Option For Irrigation Controllers (Calsense R)	744.93	
32 84 23 00-0316 EA Ethernet Communication Option For Irrigation Controllers (Calsense EN)	744.93	
32 84 23 00-0317 EA WiFi Communication Option For Irrigation Controllers (Calsense WEN)	1,526.50	
32 84 23 00-0318 EA Local Radio Communication Option For Irrigation Controllers (Calsense LR)	1,941.71	
32 84 23 00-0319 EA Spread Spectrum Radio Communication Option For Irrigation Controllers (Calsense SR)	1,941.71	
32 84 23 00-0320 EA GPRS Radio Modem Communication Option For Irrigation Controllers (Calsense GR)	1,941.71	
32 84 23 00-0321 EA Fiber Optic Modem Communication Option For Irrigation Controllers (Calsense FOM)	6,228.12	
32 84 23 00-0322 EA Communication Hub For Irrigation Controllers (Calsense HUB)	2,407.25	
Note: Accepts up to two communication options. Excludes communication options.		
32 84 23 00-0323 Retrofit Options For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0324 Weather Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0325 EA Add One Flow Sensor Interface To An Existing Calsense Controller (Calsense F-RETRO)	967.71	
32 84 23 00-0326 EA Add One ET Gage Interface To An Existing Calsense Controller (Calsense G-RETRO)	967.71	
32 84 23 00-0327 EA Add One Tipping Rain Bucket Interface To An Existing Calsense Controller (Calsense RB-RETRO)	967.71	
32 84 23 00-0328 EA Add One Wind Gage Interface To An Existing Calsense Controller (Calsense WG-RETRO)	967.71	
32 84 23 00-0329 Phone Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0330 EA Add The Ability To Chain To Another Calsense Controller With The Phone Line Communication Option And Share One Phone Line (Calsense M-RETRO)	1,016.56	
32 84 23 00-0331 EA Add The Phone Line Communication Option To An Existing Calsense Controller (Calsense R-RETRO)	1,199.74	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0332 EA Add The Phone Line Communication Option And The Ability To Chain To Another Calsense Controller And Share One Phone Line (Calsense MLR-RETRO)	1,914.14	
32 84 23 00-0333 Local Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0334 EA Add The Ability To Chain To Another Calsense Controller With The Local Radio Communication Option And Share One Local Radio (Calsense ML-RETRO)	1,138.68	
32 84 23 00-0335 EA Add The Local Radio Communication Option To An Existing Calsense Controller (Calsense LR-RETRO)	2,384.30	
32 84 23 00-0336 EA Add The Local Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Local Radio (Calsense MLR-RETRO)	3,092.60	
32 84 23 00-0337 Spread Spectrum Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0338 EA Add The Ability To Chain To Another Calsense Controller With The Spread Spectrum Radio Communication Option And Share One Spread Spectrum Radio (Calsense MS-RETRO)	1,138.68	
32 84 23 00-0339 EA Add The Spread Spectrum Radio Communication Option To An Existing Calsense Controller (Calsense SR-RETRO)	2,384.30	
32 84 23 00-0340 EA Add The Spread Spectrum Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Spread Spectrum Radio (Calsense MSR-RETRO)	3,092.60	
32 84 23 00-0341 Ethernet Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0342 EA Add The Ability To Chain To Another Calsense Controller With The Ethernet Communication Option And Share One Ethernet Device (Calsense ME-Retro)	1,138.68	
32 84 23 00-0343 EA Add The Ethernet Communication Option To An Existing Calsense Controller (Calsense EN-RETRO)	1,199.74	
32 84 23 00-0344 EA Add The Ethernet Communication Option And The Ability To Chain To Another Calsense Controller And Share One Ethernet Device (Calsense MEN-RETRO)	1,914.14	
32 84 23 00-0345 GPRS Radio Modem Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0346 EA Add The Ability To Chain To Another Calsense Controller With The GPRS Communication Option And Share One GPRS Modem (Calsense MG-RETRO)	1,138.68	
32 84 23 00-0347 EA Add The GPRS Communication Option To An Existing Calsense Controller (Calsense GR-RETRO)	2,384.30	
32 84 23 00-0348 EA Add The GPRS Communication Option And The Ability To Chain To Another Calsense Controller And Share One GPRS Modem (Calsense MGR-RETRO)	3,092.60	
32 84 23 00-0349 Radio Remote Units For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0350 EA Enhanced Radio Remote Hand-Held Transmitter With Carry Case (Calsense RRe-TRAN)	1,144.79	
32 84 23 00-0351 EA Calsense Integrated Radio Remote Receiver Board (Calsense RR/RRe)	241.80	
Note: Includes polyvinyl chloride (PVC) stick antenna. Excludes antenna cable.		
32 84 23 00-0352 EA Wall Mount Charger For Hand-Held Transmitter (Calsense RRTRAN-CHG)	103.80	
32 84 23 00-0353 EA Replacement Battery For Hand-Held Transmitter (Calsense RRTRAN-BAT)	188.50	
32 84 23 00-0354 EA Polyvinyl Chloride (PVC) Stick Antenna For Radio Remote Receiver Board (Calsense RR-ANT)	121.33	8.77
Note: Excludes antenna cable.		
32 84 23 00-0355 EA Whip Antenna For Radio Remote Receiver Board (Calsense RRe-WHIP)	231.24	8.77
Note: Excludes antenna cable.		
32 84 23 00-0356 EA Dome Antenna For Radio Remote Receiver Board (Calsense RR-Dome/RRe-Dome)	249.56	8.77
Note: Excludes antenna cable.		
32 84 23 00-0357 Satellite Irrigation Controllers (Rain Bird® ESP-SAT) (32 84 23 00-0120)		
Note: Satellite controllers compatible with Maxi-Con Central Control. Includes link communication with SEMET at the controller and stainless steel cabinet. Excludes concrete pad.		
32 84 23 00-0358 EA 12 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP12SATLS)	2,722.63	157.79
32 84 23 00-0359 EA 24 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP24SATLS)	2,871.33	166.56
32 84 23 00-0360 EA 40 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP40SATLS)	3,961.60	175.32
32 84 23 00-0361 LEIT Controllers (32 84 23 00-0120)		
32 84 23 00-0362 LEIT X Series Irrigation Controller (32 84 23 00-0361)		
32 84 23 00-0363 EA 10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	2,542.76	28.05
32 84 23 00-0364 EA 12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	2,787.91	28.05
32 84 23 00-0365 EA 16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	3,197.73	28.05
32 84 23 00-0366 EA 20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	3,607.54	28.05
32 84 23 00-0367 EA 24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	3,901.80	28.05
32 84 23 00-0368 EA 28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	4,196.05	28.05
32 84 23 00-0369 LEIT X Series Irrigation Controller Assembly (32 84 23 00-0361)		
Note: Includes excavation and concrete for footing, 2" diameter galvanized steel pole (minimum 18" bury), 2" sweeps, controller, and number 5 concrete box with non-traffic rated lid per detail.		
32 84 23 00-0370 EA 10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	2,945.65	146.58
32 84 23 00-0371 EA 12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	3,190.80	146.58
32 84 23 00-0372 EA 16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	3,600.62	146.58
32 84 23 00-0373 EA 20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	4,010.43	146.58
32 84 23 00-0374 EA 24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	4,304.69	146.58
32 84 23 00-0375 EA 28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	4,598.94	146.58



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

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MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0376	Enclosure For LEIT Controller Assembly (32 84 23 00-0361) Note: Includes mounting bolts to concrete foundation and installation of enclosure per detail.		
32 84 23 00-0377	EA 12" x 12" x 54" Milled Steel, #9 Expanded Metal, Painted Per Detail, Enclosure With Access Hatch 1,977.52	1,977.52	191.20
	Note: For LEIT Controller		
32 84 23 00-0378	Hunter Controllers (32 84 23 00-0120)		
32 84 23 00-0379	Hunter XC Hybrid Controller (32 84 23 00-0378) Note: Operates DC latching solenoids with battery power or a plug in 24 VAC transformer. Includes 6 AA batteries, outdoor stainless steel enclosure and installation of controller in Irrigation Controller Enclosure.		
32 84 23 00-0380	EA 6 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-600-SS) 446.46	446.46	70.13
32 84 23 00-0381	EA 12 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-1200-SS) 567.28	567.28	87.66
32 84 23 00-0382	DC Latching Solenoid (32 84 23 00-0120)		
32 84 23 00-0383	EA DC Latching Solenoid (Micro Power Solenoid) For Non LEIT Controllers 27.48	27.48	
	Note: As per manufacture of valve.		
32 84 23 00-0384	EA DC Solenoid For LEIT Controllers (DIG S-305DC) 40.50	40.50	
32 84 23 00-0385	Irrigation Controller Enclosure Cabinet (32 84 23 00-0120) Note: Includes excavation, installation of concrete foundation, mounting bolts, sweeps, number 5 concrete pull box with non-traffic rated lid and installation of enclosure per detail.		
32 84 23 00-0386	EA 35" (H) x 18" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan) 2,036.38	2,036.38	385.63
32 84 23 00-0387	EA 35" (H) x 24" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan) 2,201.74	2,201.74	420.68
32 84 23 00-0388	EA 35" (H) x 36" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan) 2,433.30	2,433.30	455.74
32 84 23 00-0389	EA 35" (H) x 18" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Irrigation Controller Enclosure Cabinet 2,036.40	2,036.40	385.63
32 84 23 00-0390	EA 35" (H) x 24" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet 2,201.74	2,201.74	420.68
32 84 23 00-0391	EA 35" (H) x 36" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet 2,433.30	2,433.30	455.74
32 84 23 00-0392	EA 35" (H) x 18" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet 2,478.76	2,478.76	385.63
32 84 23 00-0393	EA 35" (H) x 24" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet 2,699.39	2,699.39	420.68
32 84 23 00-0394	EA 35" (H) x 36" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet 2,930.95	2,930.95	455.74
32 84 23 00-0395	Irrigation Valves (32 84 23)		
32 84 23 00-0396	Reduced Pressure Zone Valves With QT Shut-Offs (32 84 23 00-0395) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
32 84 23 00-0397	EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series) 545.11	545.11	36.31
32 84 23 00-0398	EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) 647.40	647.40	44.33
32 84 23 00-0399	EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) 970.68	970.68	51.61
32 84 23 00-0400	EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) 1,028.43	1,028.43	59.25
32 84 23 00-0401	EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) 1,236.89	1,236.89	76.45
32 84 23 00-0402	Brass Quick-Coupling Irrigation Valves (32 84 23 00-0395)		
32 84 23 00-0403	EA 3/4", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 3RC) 111.35	111.35	31.66
	For Valve Key, Add 23.54		
32 84 23 00-0404	EA 3/4", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 33DRC) 114.07	114.07	31.66
	For Locking Cover, Add 25.00		
	For Valve Key, Add 23.54		
32 84 23 00-0405	EA 1", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44RC) 144.01	144.01	31.66
	For Valve Key, Add 60.20		
32 84 23 00-0406	EA 1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC) 154.90	154.90	31.66
	For Valve Key, Add 60.20		
32 84 23 00-0407	EA 1", 1-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 5NP) 149.77	149.77	31.66
32 84 23 00-0408	EA 1", 2-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 44NP) 154.90	154.90	31.66
32 84 23 00-0409	Anti-Siphon Pressure Type Vacuum Breaker (32 84 23 00-0395) Note: Pressure: 15 to 150 PSI, temperature: 33 to 140 degrees Fahrenheit.		
32 84 23 00-0410	EA 3/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT) 201.75	201.75	26.75
32 84 23 00-0411	EA 1" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT) 286.23	286.23	30.58
32 84 23 00-0412	EA 1-1/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT) 512.29	512.29	35.35
32 84 23 00-0413	EA 1-1/2" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT) 623.38	623.38	39.17
32 84 23 00-0414	EA 2" Anti-Siphon Pressure Type Vacuum Breaker 631.40	631.40	47.77
32 84 23 00-0415	Aluminum Cam And Groove Adapter (32 84 23 00-0395)		
32 84 23 00-0416	EA 1-1/2" Type A Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Female Pipe Thread 32.19	32.19	
32 84 23 00-0417	EA 2" Type A Aluminum Cam And Groove Male Adapter x 2" NPT Female Pipe Thread 33.95	33.95	
32 84 23 00-0418	EA 1-1/2" Type F Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Male Pipe Thread 32.89	32.89	
32 84 23 00-0419	EA 2" Type F Aluminum Cam And Groove Male Adapter x 2" NPT Male Pipe Thread 35.25	35.25	
32 84 23 00-0420	Irrigation Piping (32 84 23)		

32 Exterior Improvements

32 80 Irrigation

32 84 Planting Irrigation



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 84 23 00-0421	Irrigation Piping With Fittings, On Grade With Pipe Stabilizers <small>(32 84 23 00-0420)</small>		
	Note: Install stabilizers every 20', at change of direction and at sprinkler heads less than 12" tall.		
32 84 23 00-0422	Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers <small>(32 84 23 00-0421)</small>		
32 84 23 00-0423	LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	2.46	0.88
	<i>For >1,000, Deduct</i>	-0.12	
32 84 23 00-0424	LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.03	1.10
	<i>For >1,000, Deduct</i>	-0.15	
32 84 23 00-0425	LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.68	1.32
	<i>For >1,000, Deduct</i>	-0.18	
32 84 23 00-0426	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.89	1.67
	<i>For >1,000, Deduct</i>	-0.24	
32 84 23 00-0427	LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	6.15	2.09
	<i>For >1,000, Deduct</i>	-0.31	
32 84 23 00-0428	LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	7.84	2.45
	<i>For >1,000, Deduct</i>	-0.39	
32 84 23 00-0429	LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	10.78	3.52
	<i>For >1,000, Deduct</i>	-0.54	
32 84 23 00-0430	LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	14.09	4.40
	<i>For >1,000, Deduct</i>	-0.70	
32 84 23 00-0431	LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	20.05	5.49
	<i>For >1,000, Deduct</i>	-1.00	
32 84 23 00-0432	Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers <small>(32 84 23 00-0421)</small>		
32 84 23 00-0433	LF 3/4" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	2.86	1.10
	<i>For >1,000, Deduct</i>	-0.14	
32 84 23 00-0434	LF 1" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	3.40	1.32
	<i>For >1,000, Deduct</i>	-0.17	
32 84 23 00-0435	LF 1-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	4.69	1.67
	<i>For >1,000, Deduct</i>	-0.23	
32 84 23 00-0436	LF 2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	5.98	2.09
	<i>For >1,000, Deduct</i>	-0.30	
32 84 23 00-0437	LF 2-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	7.59	2.45
	<i>For >1,000, Deduct</i>	-0.38	
32 84 23 00-0438	LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	10.69	3.52
	<i>For >1,000, Deduct</i>	-0.53	
32 84 23 00-0439	LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	14.61	4.40
	<i>For >1,000, Deduct</i>	-0.73	
32 84 23 00-0440	LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	23.39	5.49
	<i>For >1,000, Deduct</i>	-1.17	
32 84 23 00-0441	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers <small>(32 84 23 00-0421)</small>		
32 84 23 00-0442	LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.00	1.10
	<i>For >1,000, Deduct</i>	-0.15	
32 84 23 00-0443	LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.59	1.32
	<i>For >1,000, Deduct</i>	-0.18	
32 84 23 00-0444	LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	5.06	1.67
	<i>For >1,000, Deduct</i>	-0.25	
32 84 23 00-0445	LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	6.59	2.09
	<i>For >1,000, Deduct</i>	-0.33	
32 84 23 00-0446	LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	8.57	2.45
	<i>For >1,000, Deduct</i>	-0.43	
32 84 23 00-0447	LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	10.78	3.52
	<i>For >1,000, Deduct</i>	-0.54	
32 84 23 00-0448	LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	14.09	4.40
	<i>For >1,000, Deduct</i>	-0.70	
32 84 23 00-0449	LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	20.38	5.49
	<i>For >1,000, Deduct</i>	-1.02	
32 84 23 00-0450	Irrigation Piping With Fittings, Trenching, Cover, Backfilled And Compacted <small>(32 84 23 00-0420)</small>		
	Note: Install thrust blocks per Caltrans details for 3" piping and larger, upstream of remote control valve.		
32 84 23 00-0451	Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0452	LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	4.72	1.10
	<i>For >1,000, Deduct</i>	-0.24	
32 84 23 00-0453	LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	5.36	1.32
	<i>For >1,000, Deduct</i>	-0.27	
32 84 23 00-0454	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	6.57	1.67
	<i>For >1,000, Deduct</i>	-0.33	
32 84 23 00-0455	LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	7.83	2.09
	<i>For >1,000, Deduct</i>	-0.39	
32 84 23 00-0456	LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	9.52	2.45
	<i>For >1,000, Deduct</i>	-0.48	
32 84 23 00-0457	LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	12.48	3.52
	<i>For >1,000, Deduct</i>	-0.62	



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0458	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	15.78	4.40
			<i>For >1,000, Deduct</i>	-0.79	
32 84 23 00-0459	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	21.73	5.49
			<i>For >1,000, Deduct</i>	-1.09	
32 84 23 00-0460			Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0461	LF		3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	4.91	1.10
			<i>For >1,000, Deduct</i>	-0.25	
32 84 23 00-0462	LF		1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	5.55	1.32
			<i>For >1,000, Deduct</i>	-0.28	
32 84 23 00-0463	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	6.77	1.67
			<i>For >1,000, Deduct</i>	-0.34	
32 84 23 00-0464	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	8.02	2.09
			<i>For >1,000, Deduct</i>	-0.40	
32 84 23 00-0465	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	9.72	2.45
			<i>For >1,000, Deduct</i>	-0.49	
32 84 23 00-0466	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	12.67	3.52
			<i>For >1,000, Deduct</i>	-0.63	
32 84 23 00-0467	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	15.97	4.40
			<i>For >1,000, Deduct</i>	-0.80	
32 84 23 00-0468	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	21.92	5.49
			<i>For >1,000, Deduct</i>	-1.10	
32 84 23 00-0469			Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0470	LF		3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	5.10	1.10
			<i>For >1,000, Deduct</i>	-0.26	
32 84 23 00-0471	LF		1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	5.75	1.32
			<i>For >1,000, Deduct</i>	-0.29	
32 84 23 00-0472	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	6.96	1.67
			<i>For >1,000, Deduct</i>	-0.35	
32 84 23 00-0473	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	8.21	2.09
			<i>For >1,000, Deduct</i>	-0.41	
32 84 23 00-0474	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	9.91	2.45
			<i>For >1,000, Deduct</i>	-0.50	
32 84 23 00-0475	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	12.86	3.52
			<i>For >1,000, Deduct</i>	-0.64	
32 84 23 00-0476	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	16.16	4.40
			<i>For >1,000, Deduct</i>	-0.81	
32 84 23 00-0477	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	22.12	5.49
			<i>For >1,000, Deduct</i>	-1.11	
32 84 23 00-0478			Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0479	LF		3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	4.63	1.10
			<i>For >1,000, Deduct</i>	-0.23	
32 84 23 00-0480	LF		1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	5.22	1.32
			<i>For >1,000, Deduct</i>	-0.26	
32 84 23 00-0481	LF		1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	6.58	1.67
			<i>For >1,000, Deduct</i>	-0.33	
32 84 23 00-0482	LF		2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	8.13	2.09
			<i>For >1,000, Deduct</i>	-0.41	
32 84 23 00-0483	LF		2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	10.00	2.45
			<i>For >1,000, Deduct</i>	-0.50	
32 84 23 00-0484	LF		3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	12.38	3.52
			<i>For >1,000, Deduct</i>	-0.62	
32 84 23 00-0485	LF		4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	16.31	4.40
			<i>For >1,000, Deduct</i>	-0.82	
32 84 23 00-0486	LF		6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	25.06	5.49
			<i>For >1,000, Deduct</i>	-1.25	
32 84 23 00-0487			Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0488	LF		3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	4.82	1.10
			<i>For >1,000, Deduct</i>	-0.24	
32 84 23 00-0489	LF		1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	5.41	1.32
			<i>For >1,000, Deduct</i>	-0.27	
32 84 23 00-0490	LF		1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	6.78	1.67
			<i>For >1,000, Deduct</i>	-0.34	
32 84 23 00-0491	LF		2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	8.32	2.09
			<i>For >1,000, Deduct</i>	-0.42	
32 84 23 00-0492	LF		2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	10.20	2.45
			<i>For >1,000, Deduct</i>	-0.51	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0493	LF		3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	12.57	3.52
			<i>For >1,000, Deduct</i>	-0.63	
32 84 23 00-0494	LF		4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	16.50	4.40
			<i>For >1,000, Deduct</i>	-0.83	
32 84 23 00-0495	LF		6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	25.25	5.49
			<i>For >1,000, Deduct</i>	-1.26	
32 84 23 00-0496			Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0497	LF		3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	5.01	1.10
			<i>For >1,000, Deduct</i>	-0.25	
32 84 23 00-0498	LF		1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	5.61	1.32
			<i>For >1,000, Deduct</i>	-0.28	
32 84 23 00-0499	LF		1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	6.97	1.67
			<i>For >1,000, Deduct</i>	-0.35	
32 84 23 00-0500	LF		2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	8.51	2.09
			<i>For >1,000, Deduct</i>	-0.43	
32 84 23 00-0501	LF		2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	10.39	2.45
			<i>For >1,000, Deduct</i>	-0.52	
32 84 23 00-0502	LF		3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	12.76	3.52
			<i>For >1,000, Deduct</i>	-0.64	
32 84 23 00-0503	LF		4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	16.69	4.40
			<i>For >1,000, Deduct</i>	-0.83	
32 84 23 00-0504	LF		6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	25.45	5.49
			<i>For >1,000, Deduct</i>	-1.27	
32 84 23 00-0505			Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0506	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	4.69	1.10
			<i>For >1,000, Deduct</i>	-0.23	
32 84 23 00-0507	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	5.27	1.32
			<i>For >1,000, Deduct</i>	-0.26	
32 84 23 00-0508	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	6.74	1.67
			<i>For >1,000, Deduct</i>	-0.34	
32 84 23 00-0509	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	8.28	2.09
			<i>For >1,000, Deduct</i>	-0.41	
32 84 23 00-0510	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	10.24	2.45
			<i>For >1,000, Deduct</i>	-0.51	
32 84 23 00-0511	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	12.48	3.52
			<i>For >1,000, Deduct</i>	-0.62	
32 84 23 00-0512	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	15.78	4.40
			<i>For >1,000, Deduct</i>	-0.79	
32 84 23 00-0513	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	22.05	5.49
			<i>For >1,000, Deduct</i>	-1.10	
32 84 23 00-0514			Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0515	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	4.88	1.10
			<i>For >1,000, Deduct</i>	-0.24	
32 84 23 00-0516	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	5.46	1.32
			<i>For >1,000, Deduct</i>	-0.27	
32 84 23 00-0517	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	6.94	1.67
			<i>For >1,000, Deduct</i>	-0.35	
32 84 23 00-0518	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	8.47	2.09
			<i>For >1,000, Deduct</i>	-0.42	
32 84 23 00-0519	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	10.44	2.45
			<i>For >1,000, Deduct</i>	-0.52	
32 84 23 00-0520	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	12.67	3.52
			<i>For >1,000, Deduct</i>	-0.63	
32 84 23 00-0521	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	15.97	4.40
			<i>For >1,000, Deduct</i>	-0.80	
32 84 23 00-0522	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	22.24	5.49
			<i>For >1,000, Deduct</i>	-1.11	
32 84 23 00-0523			Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		



		Exterior Improvements	32
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0524	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	5.07	1.10
			<i>For >1,000, Deduct</i>	-0.25	
32 84 23 00-0525	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	5.66	1.32
			<i>For >1,000, Deduct</i>	-0.28	
32 84 23 00-0526	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	7.13	1.67
			<i>For >1,000, Deduct</i>	-0.36	
32 84 23 00-0527	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	8.66	2.09
			<i>For >1,000, Deduct</i>	-0.43	
32 84 23 00-0528	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	10.63	2.45
			<i>For >1,000, Deduct</i>	-0.53	
32 84 23 00-0529	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	12.86	3.52
			<i>For >1,000, Deduct</i>	-0.64	
32 84 23 00-0530	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	16.16	4.40
			<i>For >1,000, Deduct</i>	-0.81	
32 84 23 00-0531	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	22.44	5.49
			<i>For >1,000, Deduct</i>	-1.12	
32 84 23 00-0532 Irrigation Riser Piping With Fittings (32 84 23 00-0420)					
32 84 23 00-0533	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV.....	12.63	2.64
			Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0534	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV.....	13.76	3.30
			Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0535	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV.....	13.67	3.08
			Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0536	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV.....	15.08	3.84
			Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0537	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I.....	26.44	4.62
			Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0538	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I.....	28.43	5.78
			Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0539	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I.....	31.17	5.94
			Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0540	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I.....	33.73	7.43
			Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0541	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I.....	35.90	7.25
			Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0542	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I.....	39.02	9.08
			Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0543 Irrigation Crossover Piping With Fittings (32 84 23 00-0420)					
			Note: Install per Caltrans details. Includes thrust blocks, HDPE sleeve pipe and fittings, 3" pvc irrigation piping and 1" electrical pvc conduit. Excludes #5 concrete irrigation pull boxes on ends, electrical control wiring. See CSI section 32 84 23 00-0105 for #5 concrete pull box. 32 84 23 00-0587 for irrigation wiring.		
32 84 23 00-0544 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench (32 84 23 00-0543)					
32 84 23 00-0545	LF		6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	27.23	
			<i>For >1,000, Deduct</i>	-1.36	
32 84 23 00-0546	LF		8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	38.32	
			<i>For >1,000, Deduct</i>	-1.92	
32 84 23 00-0547	LF		10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	52.60	
			<i>For >1,000, Deduct</i>	-2.63	
32 84 23 00-0548	LF		12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	69.32	
			<i>For >1,000, Deduct</i>	-3.47	
32 84 23 00-0549 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench (32 84 23 00-0543)					
32 84 23 00-0550	LF		6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	27.81	
			<i>For >1,000, Deduct</i>	-1.39	
32 84 23 00-0551	LF		8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	38.98	
			<i>For >1,000, Deduct</i>	-1.95	
32 84 23 00-0552	LF		10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	53.32	
			<i>For >1,000, Deduct</i>	-2.67	
32 84 23 00-0553	LF		12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	70.10	
			<i>For >1,000, Deduct</i>	-3.51	
32 84 23 00-0554 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench (32 84 23 00-0543)					
32 84 23 00-0555	LF		6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation.....	28.39	
			<i>For >1,000, Deduct</i>	-1.42	
32 84 23 00-0556	LF		8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	39.62	
			<i>For >1,000, Deduct</i>	-1.98	
32 84 23 00-0557	LF		10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	54.03	
			<i>For >1,000, Deduct</i>	-2.70	
32 84 23 00-0558	LF		12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	70.87	
			<i>For >1,000, Deduct</i>	-3.54	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 84 23 00-0559	Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore <small>(32 84 23 00-0543)</small>		
32 84 23 00-0560	LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	71.46	-3.57
32 84 23 00-0561	LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	91.51	-4.58
32 84 23 00-0562	LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	110.20	-5.51
32 84 23 00-0563	LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	131.32	-6.57
32 84 23 00-0564	Below Ground Cam Adapter Assembly <small>(32 84 23 00-0420)</small> Note: Includes minimum 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0565	EA Below Ground Cam Adapter Assembly..... Note: Includes 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	540.03	
32 84 23 00-0566	Above Ground Cam Adapter Assembly <small>(32 84 23 00-0420)</small> Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0567	EA Above Ground Cam Adapter Assembly..... Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	345.61	
32 84 23 00-0568	Thrust Block <small>(32 84 23 00-0420)</small>		
32 84 23 00-0569	EA Thrust Block For 1-1/2" Pipe Size And Smaller.....	30.63	
32 84 23 00-0570	EA Thrust Block For 2" Pipe.....	52.88	
32 84 23 00-0571	EA Thrust Block For 3" And 4" Pipe.....	75.15	
32 84 23 00-0572	EA Thrust Block For 6" Pipe.....	120.08	
32 84 23 00-0573	EA Thrust Block For 8" Pipe.....	171.35	
32 84 23 00-0574	Irrigation Swing Joints <small>(32 84 23)</small>		
32 84 23 00-0575	EA 3/4" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12075).....	42.26	17.51
32 84 23 00-0576	EA 1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12).....	47.89	19.54
32 84 23 00-0577	EA 1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint With 70 PSI Pressure Regulator (Rain Bird® TSJ100PRS).....	60.70	19.54
32 84 23 00-0578	EA 1/2" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I..... Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	35.90	22.82
32 84 23 00-0579	EA 3/4" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I..... Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	47.92	30.44
32 84 23 00-0580	EA 1" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I..... Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	59.65	37.32
32 84 23 00-0581	EA 1/2" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II..... Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	51.44	23.17
32 84 23 00-0582	EA 3/4" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II..... Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	67.97	30.74
32 84 23 00-0583	EA 1" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II..... Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	83.19	37.70
32 84 23 00-0584	EA 1/2" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III..... Note: Consists of two street 90 degree elbows.	29.03	14.19
32 84 23 00-0585	EA 3/4" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III..... Note: Consists of two street 90 degree elbows.	38.77	18.92
32 84 23 00-0586	EA 1" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III..... Note: Consists of two street 90 degree elbows.	45.58	23.45
32 84 23 00-0587	Irrigation Control Wire <small>(32 84 23)</small> Note: Excludes excavation and backfill.		
32 84 23 00-0588	18 AWG, Irrigation Control Wire, Buried In Trench <small>(32 84 23 00-0587)</small>		
32 84 23 00-0589	CLF 1-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	37.70	13.19
32 84 23 00-0590	CLF 2-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	48.38	15.39
32 84 23 00-0591	CLF 3-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	55.60	17.59
32 84 23 00-0592	CLF 4-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	63.45	19.79
32 84 23 00-0593	CLF 5-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	71.93	21.99
32 84 23 00-0594	CLF 6-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	84.82	24.19
32 84 23 00-0595	CLF 7-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	97.21	26.39
32 84 23 00-0596	CLF 8-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	105.58	28.59
32 84 23 00-0597	CLF 9-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	115.60	30.79
32 84 23 00-0598	CLF 10-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	126.92	32.98
32 84 23 00-0599	CLF 11-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	131.92	35.19



		Exterior Improvements	32
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0600 CLF 12-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	137.58	37.38
32 84 23 00-0601 CLF 13-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	145.25	39.58
32 84 23 00-0602 16 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0603 CLF 1-Conductor, 16 AWG, Irrigation Control Wire, Buried In Trench	39.37	13.19
32 84 23 00-0604 14 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0605 CLF 1-Conductor, 14 AWG, Irrigation Control Wire, Buried In Trench	39.37	13.19
32 84 23 00-0606 12 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0607 CLF 1-Conductor, 12 AWG, Irrigation Control Wire, Buried In Trench	50.42	13.19
32 84 23 00-0608 10 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0609 CLF 1-Conductor, 10 AWG, Irrigation Control Wire, Buried In Trench	64.41	13.19
32 84 23 00-0610 Root Watering Systems (32 84 23)		
Note: Includes swing assembly.		
32 84 23 00-0611 EA 0.25 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1401)	65.74	17.59
For Root Watering Sand Sock, Add	4.04	
32 84 23 00-0612 EA 0.25 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1401)	69.98	17.59
For Root Watering Sand Sock, Add	4.04	
32 84 23 00-0613 EA 0.5 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1402)	65.74	17.59
For Root Watering Sand Sock, Add	4.04	
32 84 23 00-0614 EA 0.5 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1402)	69.98	17.59
For Root Watering Sand Sock, Add	4.04	
32 84 23 00-0615 EA 1 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1404)	69.98	17.59
For Root Watering Sand Sock, Add	4.04	
32 84 23 00-0616 EA 0.25 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1401)	57.14	15.39
For Root Watering Sand Sock, Add	3.60	
32 84 23 00-0617 EA 0.25 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1401)	61.21	15.39
For Root Watering Sand Sock, Add	3.60	
32 84 23 00-0618 EA 0.5 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1402)	57.14	15.39
For Root Watering Sand Sock, Add	3.60	
32 84 23 00-0619 EA 0.5 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1402)	61.21	15.39
For Root Watering Sand Sock, Add	3.60	
32 84 23 00-0620 EA 0.25 GPM Bubbler On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-1401)	40.41	13.19
For Root Watering Sand Sock, Add	3.16	
32 84 23 00-0621 EA 0.25 GPM Bubbler And Check Valve On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-C-1401)	44.28	13.19
For Root Watering Sand Sock, Add	3.16	

32 90 Planting (32)

Note: Plant installation includes the initial watering only. The extended watering period for the establishment of lawns, plants and trees is addressed on a per plant per amount per occurrence basis as directed in the specification. cvs = cultivar. See CSI section 32 01 90 26-0000 for additional "extended watering period" tasks.

32 91 Planting Preparation (32 90)

32 91 13 Soil Preparation (32 91)

32 91 13 16 Mulching (32 91 13)

32 91 13 16-0001 Mulch (32 91 13 16)

Note: Includes loading, delivery up to 15 miles and spreading. 1 CY = 108 SF of mulch spread 3" thick. See CSI section 01 74 19 00-0051 for hauling greater than 15 miles.

32 91 13 16-0002 CY Pine Bark Nugget Mulch	93.97	
For Work On Slopes >2.5:1, Add	11.29	
For >5 To 20, Deduct	-7.52	
For >20 To 50, Deduct	-11.28	
For >50, Deduct	-15.98	
32 91 13 16-0003 CY Hardwood Bark Nugget Mulch	92.47	
For Work On Slopes >2.5:1, Add	11.29	
For >5 To 20, Deduct	-7.45	
For >20 To 50, Deduct	-11.17	
For >50, Deduct	-15.79	
32 91 13 16-0004 CY Pine Wood Chip Mulch	89.47	
For Work On Slopes >2.5:1, Add	11.29	
For >5 To 20, Deduct	-7.30	
For >20 To 50, Deduct	-10.95	
For >50, Deduct	-15.42	

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91	13 16-0005	CY	Hardwood Chip Mulch.....	95.47	
			<i>For Work On Slopes >2.5:1, Add</i>	11.29	
			<i>For >5 To 20, Deduct</i>	-7.60	
			<i>For >20 To 50, Deduct</i>	-11.40	
			<i>For >50, Deduct</i>	-16.17	
32 91	13 16-0006	CY	Shredded Hardwood Mulch	95.47	
			<i>For Work On Slopes >2.5:1, Add</i>	11.29	
			<i>For >5 To 20, Deduct</i>	-7.60	
			<i>For >20 To 50, Deduct</i>	-11.40	
			<i>For >50, Deduct</i>	-16.17	
32 91	13 16-0007	CY	Shredded Pine Mulch.....	81.97	
			<i>For Work On Slopes >2.5:1, Add</i>	11.29	
			<i>For >5 To 20, Deduct</i>	-6.92	
			<i>For >20 To 50, Deduct</i>	-10.38	
			<i>For >50, Deduct</i>	-14.48	
32 91	13 16-0008	CY	Shredded Cedar Mulch	111.22	
			<i>For Work On Slopes >2.5:1, Add</i>	11.29	
			<i>For >5 To 20, Deduct</i>	-8.38	
			<i>For >20 To 50, Deduct</i>	-12.58	
			<i>For >50, Deduct</i>	-18.14	
32 91	13 16-0009	CY	Shredded Cypress Mulch.....	108.97	
			<i>For Work On Slopes >2.5:1, Add</i>	11.29	
			<i>For >5 To 20, Deduct</i>	-8.27	
			<i>For >20 To 50, Deduct</i>	-12.41	
			<i>For >50, Deduct</i>	-17.86	
32 91	13 16-0010	CY	Shredded Redwood Mulch.....	114.97	
			<i>For Work On Slopes >2.5:1, Add</i>	11.29	
			<i>For >5 To 20, Deduct</i>	-8.57	
			<i>For >20 To 50, Deduct</i>	-12.86	
			<i>For >50, Deduct</i>	-18.61	
32 91	13 16-0011	CY	Pea Gravel Mulch	78.55	
			<i>For Work On Slopes >2.5:1, Add</i>	11.29	
			<i>For >5 To 20, Deduct</i>	-6.75	
			<i>For >20 To 50, Deduct</i>	-10.13	
			<i>For >50, Deduct</i>	-14.05	
32 91	13 16-0012	CY	Chunk Recycled Tire Mulch	177.04	
			<i>For Work On Slopes >2.5:1, Add</i>	14.41	
			<i>For >5 To 20, Deduct</i>	-12.45	
			<i>For >20 To 50, Deduct</i>	-18.68	
			<i>For >50, Deduct</i>	-27.53	
32 91	13 16-0013	CY	Chunk Colored Recycled Tire Mulch.....	280.54	
			<i>For Work On Slopes >2.5:1, Add</i>	14.41	
			<i>For >5 To 20, Deduct</i>	-17.63	
			<i>For >20 To 50, Deduct</i>	-26.44	
			<i>For >50, Deduct</i>	-40.47	
32 91	13 16-0014	CY	Shredded Recycled Tire Mulch.....	282.04	
			<i>For Work On Slopes >2.5:1, Add</i>	14.41	
			<i>For >5 To 20, Deduct</i>	-17.70	
			<i>For >20 To 50, Deduct</i>	-26.56	
			<i>For >50, Deduct</i>	-40.66	
32 91	13 16-0015	CY	Shredded Colored Recycled Tire Mulch	489.04	
			<i>For Work On Slopes >2.5:1, Add</i>	14.41	
			<i>For >5 To 20, Deduct</i>	-28.05	
			<i>For >20 To 50, Deduct</i>	-42.08	
			<i>For >50, Deduct</i>	-66.53	
32 91	13 16-0016	EA	Pine Straw Mulch Bale.....	8.37	
			Note: Covers 50 SF at a thickness of 2" to 4" forming a uniform mat through which none of the original ground surface can be seen.		
			<i>For Work On Slopes >2.5:1, Add</i>	0.63	
			<i>For >100 To 250, Deduct</i>	-0.58	
			<i>For >250 To 500, Deduct</i>	-0.73	
			<i>For >500, Deduct</i>	-0.99	
32 91	13 16-0017	EA	Wheat Straw Mulch Bale.....	8.51	
			Note: Covers 350 SF forming a uniform mat through which 20 to 40% of the original ground surface can be seen.		
			<i>For Work On Slopes >2.5:1, Add</i>	0.47	
			<i>For >100 To 250, Deduct</i>	-0.54	
			<i>For >250 To 500, Deduct</i>	-0.66	
			<i>For >500, Deduct</i>	-0.97	
32 91	13 16-0018	CY	Stone/Gravel Mulch, Marble Chips	205.91	
			<i>For Work On Slopes >2.5:1, Add</i>	11.29	
			<i>For >5 To 20, Deduct</i>	-13.12	
			<i>For >20 To 50, Deduct</i>	-19.68	
			<i>For >50, Deduct</i>	-29.97	
32 91	13 16-0019	CY	Stone Mulch, Decomposed Granite Chips	73.43	
			<i>For Work On Slopes >2.5:1, Add</i>	11.29	
			<i>For >5 To 20, Deduct</i>	-6.50	
			<i>For >20 To 50, Deduct</i>	-9.74	
			<i>For >50, Deduct</i>	-13.41	

32 91 13 16-0020 Compost Soil Amendment (AgriService) (32 91 13 16)

Note: Includes loading, delivery up to 15 miles and spreading. See CSI section 01 74 19 00-0051 for hauling greater than 15 miles.



		Exterior Improvements	32
		Planting	32 90
		Planting Preparation	32 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 16-0021 CY Humic Compost (OIM)	67.73	
Note: (Agri Service or Equal)		
<i>For Work On Slopes >2.5:1, Add</i>	11.29	
<i>For >100 To 1,000, Deduct</i>	-11.86	
<i>For >1,000, Deduct</i>	-18.07	
32 91 13 26 Planting Beds <small>(32 91 13)</small>		
Note: Not for use when installing trees and shrubs.		
32 91 13 26-0001 Plant Bed Preparation <small>(32 91 13 26)</small>		
Note: Not for use when installing trees and shrubs.		
32 91 13 26-0002 SF Prepare And Mix Plant Bed, Up To 8" Deep By Machine	0.88	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
<i>For Work On Slopes >2.5:1, Add</i>	0.18	
32 91 13 26-0003 SF Prepare And Mix Plant Bed, 9" To 13" Deep By Machine.....	1.02	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
<i>For Work On Slopes >2.5:1, Add</i>	0.20	
32 91 13 26-0004 SF Prepare And Mix Plant Bed, 14" To 18" Deep By Machine.....	1.20	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
<i>For Work On Slopes >2.5:1, Add</i>	0.24	
32 91 13 26-0005 SF Prepare And Mix Plant Bed By Hand, Up To 8" Deep	4.05	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
<i>For Work On Slopes >2.5:1, Add</i>	0.81	
32 91 13 26-0006 SF Prepare And Mix Plant Bed By Hand, 9" To 13" Deep.....	4.66	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
<i>For Work On Slopes >2.5:1, Add</i>	0.93	
32 91 13 26-0007 SF Prepare And Mix Plant Bed By Hand, 14" To 18" Deep.....	5.48	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
<i>For Work On Slopes >2.5:1, Add</i>	1.10	
32 91 13 26-0008 Plant Bed Preparation With Humic Compost <small>(32 91 13 26)</small>		
32 91 13 26-0009 SF Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 3 CY Per 1,000 SF).....	0.97	
Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
<i>For Work On Slopes >2.5:1, Add</i>	0.19	
<i>For >1,000 To 5,000, Deduct</i>	-0.14	
<i>For >5,000 To 10,000, Deduct</i>	-0.24	
<i>For >10,000 To 20,000, Deduct</i>	-0.47	
<i>For >20,000, Deduct</i>	-0.66	
32 91 13 26-0010 SF Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 6 CY Per 1,000 SF).....	1.20	
Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
<i>For Work On Slopes >2.5:1, Add</i>	0.23	
<i>For >1,000 To 5,000, Deduct</i>	-0.17	
<i>For >5,000 To 10,000, Deduct</i>	-0.28	
<i>For >10,000 To 20,000, Deduct</i>	-0.57	
<i>For >20,000, Deduct</i>	-0.80	
32 91 13 26-0011 SF Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 9 CY Per 1,000 SF).....	1.42	
Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
<i>For Work On Slopes >2.5:1, Add</i>	0.26	
<i>For >1,000 To 5,000, Deduct</i>	-0.20	
<i>For >5,000 To 10,000, Deduct</i>	-0.33	
<i>For >10,000 To 20,000, Deduct</i>	-0.67	
<i>For >20,000, Deduct</i>	-0.93	
32 91 13 26-0012 Planting Pit Preparation <small>(32 91 13 26)</small>		
Note: Not for use when installing trees and shrubs.		
32 91 13 26-0013 CY Excavate Planting Pit By Hand, Sandy Soil	70.13	
Note: For use with existing planting pits.		
<i>For Work On Slopes >2.5:1, Add</i>	14.03	
32 91 13 26-0014 CY Excavate Planting Pit By Hand, Heavy Soil	140.26	
Note: For use with existing planting pits.		
<i>For Work On Slopes >2.5:1, Add</i>	28.05	
32 91 13 26-0015 CY Excavate Planting Pit By Machine, Sandy Soil	10.86	
Note: For use with existing planting pits.		
<i>For Work On Slopes >2.5:1, Add</i>	2.17	
32 91 13 26-0016 CY Excavate Planting Pit By Machine, Heavy Soil	14.12	
Note: For use with existing planting pits.		
<i>For Work On Slopes >2.5:1, Add</i>	2.82	
32 91 13 26-0017 CY Backfill Planting Pit By Hand With Topsoil From Stockpile	62.32	
<i>For Work On Slopes >2.5:1, Add</i>	12.46	
32 91 13 26-0018 CY Backfill Planting Pit By Hand With Contractor Furnished Planting Mix	116.89	
<i>For Work On Slopes >2.5:1, Add</i>	11.31	
32 91 13 26-0019 CY Backfill Planting Pit By Machine, With Topsoil From Stockpile	6.01	
<i>For Work On Slopes >2.5:1, Add</i>	1.20	

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 26-0020 CY Backfill Planting Pit By Machine, With Contractor Furnished Planting Mix..... <i>For Work On Slopes >2.5:1, Add</i>	75.11 2.96	
32 91 13 26-0021 Weed Barrier <i>(32 91 13 26)</i>		
32 91 13 26-0022 SY Up To 3 Oz/SY Non Woven, Polypropylene Weed Barrier <i>For Work On Slopes >2.5:1, Add</i>	1.48 0.11	
32 91 13 26-0023 SY 4 Oz/SY Woven, Polypropylene Weed Barrier..... <i>For Work On Slopes >2.5:1, Add</i>	1.95 0.11	
32 91 13 26-0024 SY 5 Oz/SY Woven, Needle Punched Polypropylene Weed Barrier <i>For Work On Slopes >2.5:1, Add</i>	2.16 0.11	
32 91 13 33 Soil Conditioners <i>(32 91 13)</i>		
32 91 13 33-0001 Spread Soil Conditioners <i>(32 91 13 33)</i>		
32 91 13 33-0002 SY Aluminum Sulfate 1 LB/SY, Push Spreader.....	0.18	
32 91 13 33-0003 MSF Aluminum Sulfate 110 LB/MSF Tractor Spreader.....	15.37	
32 91 13 33-0004 MSF Fertilizer, 20 LB/MSF, Push Spreader.....	5.11	
32 91 13 33-0005 MSF Fertilizer, 20 LB/MSF, Tractor Spread.....	1.71	
32 91 13 33-0006 MSF Fertilizer, 20 LB/MSF, Truck Spread.....	3.69	
32 91 13 33-0007 SY Pelletized Lime, 1 LB/SY, Push Spreader.....	0.06	
32 91 13 33-0008 MSF Pelitized Lime, 110 LB/MSF, Tractor Spreader.....	3.41	
32 91 13 33-0009 SY Perlite, 1" Deep, Push Spreader.....	1.36	
32 91 13 33-0010 MSF Perlite, 1" Deep, Tractor Spreader.....	140.08	
32 91 13 33-0011 SY Vermiculite, Push Spreader.....	1.27	
32 91 13 33-0012 MSF Vermiculite, Tractor Spreader.....	136.85	
32 91 13 33-0013 SY Humate Granular Soil Conditioner, 0.10 LB/SY, Push Spreader.....	0.13	
32 91 13 33-0014 MSF Humate Granular Soil Conditioner, 10 LB/MSF, Tractor Spreader.....	11.56	
32 91 13 36 Lawn Bed Preparation <i>(32 91 13)</i>		
32 91 13 36-0001 Lawn Bed Preparation <i>(32 91 13 36)</i>		
32 91 13 36-0002 MSF Rake Topsoil With Machine.....	68.09	
32 91 13 36-0003 MSF Rake Topsoil By Hand.....	56.10	
32 91 13 36-0004 MSF Screen Loam By Hand.....	37.40	
32 91 13 36-0005 SY Roll Topsoil With Machine.....	0.87	
32 91 13 36-0006 SY Roll Topsoil By Hand.....	2.51	
32 91 13 36-0007 MSF Removal Of Rocks And Debris With Machine.....	8.05	
32 91 13 36-0008 MSF Removal Of Rocks And Debris By Hand.....	25.34	
32 91 13 36-0009 MSF Root Raking And Loading, No Boulders..... <i>For >45 to 225, Deduct</i> <i>For >225, Deduct</i>	42.14 -29.50 -37.93	
32 91 13 36-0010 MSF Root Raking And Loading, With Boulders..... <i>For >45 to 225, Deduct</i> <i>For >225, Deduct</i>	70.23 -49.16 -63.21	
32 91 13 36-0011 MSF Up To 6" Deep Tilling Topsoil With Tractor.....	3.76	
32 91 13 36-0012 MSF >6" To 12" Deep Tilling Topsoil With Tractor..... <i>For Work On Slopes >2.5:1, Add</i>	7.62 1.52	
32 91 13 36-0013 SY Up To 2" Deep Tilling Topsoil With Rototiller.....	0.59	
32 91 13 36-0014 SY >2" To 4" Deep Tilling Topsoil With Rototiller.....	0.72	
32 91 13 36-0015 SY >4" To 6" Deep Tilling Topsoil With Rototiller.....	0.89	
32 91 13 36-0016 LF "V" Cut Soil For Edge Of Planting Beds.....	0.99	
32 91 13 36-0017 Sod Removal <i>(32 91 13 36)</i>		
32 91 13 36-0018 SY Removal Of Sod By Hand..... <i>For Work On Slopes >2.5:1, Add</i>	4.73 0.95	
32 91 13 36-0019 SY Removal Of Sod With Machine..... <i>For Work On Slopes >2.5:1, Add</i>	0.50 0.10	
32 91 13 36-0020 SY Pile Sod By Hand..... <i>For Work On Slopes >2.5:1, Add</i>	2.81 0.56	
32 91 13 36-0021 SY Pile Sod With Machine..... <i>For Work On Slopes >2.5:1, Add</i>	0.95 0.19	
32 91 19 Landscape Grading <i>(32 91)</i>		
32 91 19 13 Topsoil Placement And Grading <i>(32 91 19)</i>		
32 91 19 13-0001 Remove And Stockpile Topsoil On Site <i>(32 91 19 13)</i>		
32 91 19 13-0002 CY Removal Of Topsoil, 4" Deep Stockpile On Site.....	3.91	
32 91 19 13-0003 CY Removal Of Topsoil, 6" Deep Stockpile On Site.....	3.87	
32 91 19 13-0004 Screening Topsoil <i>(32 91 19 13)</i>		
32 91 19 13-0005 CY Screen Topsoil With Vibrating Screen, Wet Material (Organic).....	8.49	
32 91 19 13-0006 CY Screen Topsoil With Vibrating Screen, Dry Material.....	5.66	
32 91 19 13-0007 Spreading Topsoil From Stockpile <i>(32 91 19 13)</i>		



		Exterior Improvements	32
		Planting	32 90
		Planting Preparation	32 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 19 13-0008 CY Spread Topsoil By Machine From Stockpile	6.45	
32 91 19 13-0009 CY Spread Topsoil By Hand From Stockpile	53.53	
32 91 19 13-0010 Furnish And Place Imported Screened Topsoil <small>(32 91 19 13)</small>		
<small>Note: Includes delivery up to 15 miles from the closest approved source and spread by machine. Excludes hand spreading. See CSI section 01 74 19 00-0051 for hauling greater than 15 miles, 31 23 16 36-0030 for hand spreading.</small>		
32 91 19 13-0011 SY Furnish And Place Imported Screened Topsoil, 2" Deep	4.01	
<i>For Unscreened, Deduct</i>	-0.63	
32 91 19 13-0012 SY Furnish And Place Imported Screened Topsoil, 4" Deep	7.76	
<i>For Unscreened, Deduct</i>	-1.27	
32 91 19 13-0013 SY Furnish And Place Imported Screened Topsoil, 6" Deep	11.32	
<i>For Unscreened, Deduct</i>	-1.90	
32 91 19 13-0014 SY Furnish And Place Imported Screened Topsoil, 9" Deep	16.51	
<i>For Unscreened, Deduct</i>	-2.84	
32 91 19 13-0015 SY Furnish And Place Imported Screened Topsoil, 12" Deep	21.70	
<i>For Unscreened, Deduct</i>	-3.79	
32 91 19 13-0016 CY Furnish And Place Imported Screened Topsoil, Over 12" Deep	61.12	
<i>For Unscreened, Deduct</i>	-11.38	
32 91 19 16 Scarify Soil <small>(32 91 19)</small>		
32 91 19 16-0001 Scarify Soil For Planting Preparation <small>(32 91 19 16)</small>		
<small>Note: Ripped in multiple directions with 3" maximum clods.</small>		
32 91 19 16-0002 MSF Up To 5,000 SF Scarify Up To 8" Soil With Machine	50.79	
32 91 19 16-0003 MSF >5,000 To 20,000 SF Scarify Up To 8" Soil With Machine	35.55	
32 91 19 16-0004 MSF >20,000 SF Scarify Up To 8" Soil With Machine	20.84	
32 92 Turf And Grasses <small>(32 92)</small>		
32 92 16 Plugging <small>(32 92)</small>		
32 92 16 00-0001 Bermuda Or Centipede Plugging, 1" Deep <small>(32 92 16)</small>		
<small>Note: Includes fine grade and soil preparation.</small>		
32 92 16 00-0002 6" On Center Plugging <small>(32 92 16 00-0001)</small>		
32 92 16 00-0003 MSF Plugging By Hand, 6" On Center	189.51	
32 92 16 00-0004 MSF Plugging By Walk Behind Planter, 6" On Center	33.33	
32 92 16 00-0005 MSF Plugging By Towed Planter, 6" On Center	26.98	
32 92 16 00-0006 9" On Center Plugging <small>(32 92 16 00-0001)</small>		
32 92 16 00-0007 MSF Plugging By Hand, 9" On Center	145.15	
32 92 16 00-0008 MSF Plugging By Walk Behind Planter, 9" On Center	25.74	
32 92 16 00-0009 MSF Plugging By Towed Planter, 9" On Center	20.13	
32 92 16 00-0010 12" On Center Plugging <small>(32 92 16 00-0001)</small>		
32 92 16 00-0011 MSF Plugging By Hand, 12" On Center	120.78	
32 92 16 00-0012 MSF Plugging By Walk Behind Planter, 12" On Center	17.04	
32 92 16 00-0013 MSF Plugging By Towed Planter, 12" On Center	12.73	
32 92 19 Seeding <small>(32 92)</small>		
32 92 19 13 Mechanical Seeding <small>(32 92 19)</small>		
<small>Note: Includes fertilizing, liming, mixing, seeding and initial watering.</small>		
32 92 19 13-0001 Tractor Spreader Mechanical Seeding <small>(32 92 19 13)</small>		
<small>Note: Excludes straw. See CSI section 32 91 13 16-0017 for wheat straw mulch.</small>		
32 92 19 13-0002 MSF Common Bluegrass, Tractor Spreader	45.41	
<small>Note: 4 LB/MSF spread rate.</small>		
32 92 19 13-0003 MSF Tall Fescue, Tractor Spreader	33.82	
<small>Note: 5.5 LB/MSF spread rate.</small>		
32 92 19 13-0004 MSF Rye, Tractor Spreader	34.64	
<small>Note: 10 LB/MSF spread rate.</small>		
32 92 19 13-0005 MSF Shade Mix, Tractor Spreader	38.81	
<small>Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.</small>		
32 92 19 13-0006 MSF Turf Mix, Tractor Spreader	41.81	
<small>Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.</small>		
32 92 19 13-0007 MSF Slope Mix, Tractor Spreader	37.81	
<small>Note: 6 LB/MSF spread rate.</small>		
32 92 19 13-0008 MSF Utility Mix, Tractor Spreader	32.83	
<small>Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.</small>		
32 92 19 13-0009 MSF Wild Flower Mix, Tractor Spreader	23.43	
<small>Note: 0.10 LB/MSF spread rate.</small>		
32 92 19 13-0010 MSF Crown Vetch Mix, Tractor Spreader	97.76	
<small>Note: 4 LB/MSF spread rate.</small>		
32 92 19 13-0011 MSF Athletic Mix, Tractor Spreader	53.80	
<small>Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.</small>		

32 Exterior Improvements**32 90 Planting****32 92 Turf And Grasses**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0012	MSF		White Clover Mix, Tractor Spreader..... Note: 7 LB/MSF spread rate.	23.33	
32 92 19 13-0013	MSF		Ladino Clover Mix, Tractor Spreader..... Note: 7 LB/MSF spread rate.	27.32	
32 92 19 13-0014			Hydro Or Air Mechanical Seeding <small>(32 92 19 13)</small>		
32 92 19 13-0015	MSF		Common Bluegrass, Hydro Or Air Seeding..... Note: 4 LB/MSF spread rate.	89.11	
			<i>For Spot Areas Up To 1, Add</i>	83.11	
			<i>For >1 To 4, Add</i>	52.34	
			<i>For >4 To 7.5, Add</i>	34.80	
			<i>For >7.5 To 10, Add</i>	17.40	
			<i>For >45, Deduct</i>	-6.61	
			<i>For Tackifier, Add</i>	0.79	
32 92 19 13-0016	MSF		Tall Fescue, Hydro Or Air Seeding..... Note: 5.5 LB/MSF spread rate.	96.11	
			<i>For Spot Areas Up To 1, Add</i>	85.91	
			<i>For >1 To 4, Add</i>	53.74	
			<i>For >4 To 7.5, Add</i>	35.50	
			<i>For >7.5 To 10, Add</i>	17.75	
			<i>For >45, Deduct</i>	-6.96	
			<i>For Tackifier, Add</i>	0.79	
32 92 19 13-0017	MSF		Rye, Hydro Or Air Spread..... Note: 10 LB/MSF spread rate.	89.41	
			<i>For Spot Areas Up To 1, Add</i>	83.23	
			<i>For >1 To 4, Add</i>	52.40	
			<i>For >4 To 7.5, Add</i>	34.83	
			<i>For >7.5 To 10, Add</i>	17.42	
			<i>For >45, Deduct</i>	-6.63	
			<i>For Tackifier, Add</i>	0.79	
32 92 19 13-0018	MSF		Shade Mix, Hydro Or Air Seeding..... Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	89.11	
			<i>For Spot Areas Up To 1, Add</i>	83.11	
			<i>For >1 To 4, Add</i>	52.34	
			<i>For >4 To 7.5, Add</i>	34.80	
			<i>For >7.5 To 10, Add</i>	17.40	
			<i>For >45, Deduct</i>	-6.61	
			<i>For Tackifier, Add</i>	0.79	
32 92 19 13-0019	MSF		Turf Mix, Hydro Or Air Seeding..... Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	96.11	
			<i>For Spot Areas Up To 1, Add</i>	85.91	
			<i>For >1 To 4, Add</i>	53.74	
			<i>For >4 To 7.5, Add</i>	35.50	
			<i>For >7.5 To 10, Add</i>	17.75	
			<i>For >45, Deduct</i>	-6.96	
			<i>For Tackifier, Add</i>	0.79	
32 92 19 13-0020	MSF		Slope Mix, Hydro Or Air Seeding..... Note: 6 LB/MSF spread rate.	93.11	
			<i>For Spot Areas Up To 1, Add</i>	84.71	
			<i>For >1 To 4, Add</i>	53.14	
			<i>For >4 To 7.5, Add</i>	35.20	
			<i>For >7.5 To 10, Add</i>	17.60	
			<i>For >45, Deduct</i>	-6.81	
			<i>For Tackifier, Add</i>	0.79	
32 92 19 13-0021	MSF		Utility Mix, Hydro Or Air Seeding..... Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	90.69	
			<i>For Spot Areas Up To 1, Add</i>	83.74	
			<i>For >1 To 4, Add</i>	52.66	
			<i>For >4 To 7.5, Add</i>	34.96	
			<i>For >7.5 To 10, Add</i>	17.48	
			<i>For >45, Deduct</i>	-6.69	
			<i>For Tackifier, Add</i>	0.79	
32 92 19 13-0022	MSF		Wild Flower Mix, Hydro Or Air Seeding..... Note: 0.10 LB/MSF spread rate.	82.91	
			<i>For Spot Areas Up To 1, Add</i>	80.63	
			<i>For >1 To 4, Add</i>	51.10	
			<i>For >4 To 7.5, Add</i>	34.18	
			<i>For >7.5 To 10, Add</i>	17.09	
			<i>For >45, Deduct</i>	-6.30	
			<i>For Tackifier, Add</i>	0.79	
32 92 19 13-0023	MSF		Crown Vetch Mix, Hydro Or Air Seeding..... Note: 4 LB/MSF spread rate.	153.06	
			<i>For Spot Areas Up To 1, Add</i>	108.69	
			<i>For >1 To 4, Add</i>	65.13	
			<i>For >4 To 7.5, Add</i>	41.20	
			<i>For >7.5 To 10, Add</i>	20.60	
			<i>For >45, Deduct</i>	-9.81	
			<i>For Tackifier, Add</i>	0.79	



		Exterior Improvements	32
		Planting	32 90
		Turf And Grasses	32 92

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0024 MSF Athletic Mix, Hydro Or Air Seeding	131.10	
Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
For Spot Areas Up To 1, Add	99.91	
For >1 To 4, Add	60.74	
For >4 To 7.5, Add	39.00	
For >7.5 To 10, Add	19.50	
For >45, Deduct	-8.71	
For Tackifier, Add	0.79	
32 92 19 13-0025 MSF White Clover Mix, Hydro Or Air Seeding.....	73.42	
Note: 7 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	76.83	
For >1 To 4, Add	49.20	
For >4 To 7.5, Add	33.23	
For >7.5 To 10, Add	16.62	
For >45, Deduct	-5.83	
For Tackifier, Add	0.79	
32 92 19 13-0026 MSF Ladino Clover Mix, Hydro Or Air Seeding.....	85.11	
Note: 7 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	81.51	
For >1 To 4, Add	51.54	
For >4 To 7.5, Add	34.40	
For >7.5 To 10, Add	17.20	
For >45, Deduct	-6.41	
For Tackifier, Add	0.79	
32 92 19 13-0027 MSF 60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Hydro Or Air Spread.....	91.11	
Note: 4 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	83.91	
For >1 To 4, Add	52.74	
For >4 To 7.5, Add	35.00	
For >7.5 To 10, Add	17.50	
For >45, Deduct	-6.71	
For Tackifier, Add	0.79	
32 92 19 13-0028 MSF 2,500 LB/Acre, High Performance - Flexible Growth Medium.....	76.65	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-4.91	
32 92 19 13-0029 MSF 3,000 LB/Acre, High Performance - Flexible Growth Medium.....	88.74	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-5.57	
32 92 19 13-0030 MSF 3,500 LB/Acre, High Performance - Flexible Growth Medium.....	100.90	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-6.24	
32 92 19 13-0031 MSF 4,000 LB/Acre, High Performance - Flexible Growth Medium.....	113.08	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-6.90	
32 92 19 13-0032 MSF 4,500 LB/Acre, High Performance - Flexible Growth Medium.....	125.35	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-7.58	
32 92 19 19 Seeding By Hand <small>(32 92 19)</small>		
Note: Includes fertilizing, liming, mixing, seeding and initial watering. See CSI section 32 91 13 16-0017 for wheat straw mulch.		
32 92 19 19-0001 Push Spreader Or Hand Seeding <small>(32 92 19 19)</small>		
Note: Excludes straw. See CSI section 32 91 13 16-0017 for wheat straw mulch.		
32 92 19 19-0002 MSF Common Bluegrass, Push Spreader Or Hand.....	97.70	
Note: 4 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.64	
For >20 To 45, Deduct	-12.59	
For >45, Deduct	-20.29	
32 92 19 19-0003 MSF Tall Fescue, Push Spreader Or Hand.....	86.11	
Note: 5.5 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.06	
For >20 To 45, Deduct	-11.72	
For >45, Deduct	-19.13	
32 92 19 19-0004 MSF Rye, Push Spreader Or Hand.....	86.93	
Note: 10 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.10	
For >20 To 45, Deduct	-11.78	
For >45, Deduct	-19.21	
32 92 19 19-0005 MSF Shade Mix, Push Spreader Or Hand.....	91.10	
Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.		
For >5 To 20, Deduct	-6.31	
For >20 To 45, Deduct	-12.09	
For >45, Deduct	-19.63	
32 92 19 19-0006 MSF Turf Mix, Push Spreader Or Hand.....	94.10	
Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.		
For >5 To 20, Deduct	-6.46	
For >20 To 45, Deduct	-12.32	
For >45, Deduct	-19.93	
32 92 19 19-0007 MSF Slope Mix, Push Spreader Or Hand.....	90.10	
Note: 6 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.26	
For >20 To 45, Deduct	-12.02	
For >45, Deduct	-19.53	

32 Exterior Improvements**32 90 Planting****32 92 Turf And Grasses**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 19-0008	MSF	Utility Mix, Push Spreader Or Hand Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	85.12 -6.01 -11.64 -19.03	
32 92 19 19-0009	MSF	Wild Flower Mix, Push Spreader Or Hand Note: 0.10 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	75.72 -5.54 -10.94 -18.09	
32 92 19 19-0010	MSF	Crown Vetch Mix, Push Spreader Or Hand Note: 4 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	150.05 -9.26 -16.51 -25.52	
32 92 19 19-0011	MSF	Athletic Mix, Push Spreader Or Hand Note: 8 LB/MSF spread rate. Mixture of drought resistant bluegrass, tall fescue and Kentucky bluegrass. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	106.09 -7.06 -13.22 -21.13	
32 92 19 19-0012	MSF	White Clover Mix, Push Spreader Or Hand Note: 7 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	75.62 -5.53 -10.93 -18.08	
32 92 19 19-0013	MSF	Ladino Clover Mix, Push Spreader Or Hand Note: 7 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	79.61 -5.73 -11.23 -18.48	
32 92 19 19-0014	MSF	100% Kentucky Bluegrass, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	99.60 -6.73 -12.73 -20.48	
32 92 19 19-0015	MSF	70% Kentucky Bluegrass And 30% Fescue, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	94.10 -6.46 -12.32 -19.93	
32 92 19 19-0016	MSF	50% Kentucky Bluegrass And 50% Fescue, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	90.10 -6.26 -12.02 -19.53	
32 92 19 19-0017	MSF	50% Kentucky Bluegrass And 50% Perennial Rye, Push Spreader Or Hand Note: 4.4 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	98.10 -6.66 -12.62 -20.33	
32 92 19 19-0018	MSF	60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	92.10 -6.36 -12.17 -19.73	
32 92 19 19-0019	MSF	40% Creeping Red Fescue, 30% Kentucky Bluegrass, 10% Red Top, And 20% Blue Tag Perennial Rye, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	94.10 -6.46 -12.32 -19.93	
32 92 23		Sodding <small>(32 92)</small>		
		Note: Includes raking preparation, water thoroughly and allow surface to dry before planting, rolling of sod, sanding seams for (up to 16" wide by 24" long) squares or (up to 24" wide by 54" long) rolls and initial watering within 2 hours after planting.		
32 92 23 00-0001		Bermuda Sod <small>(32 92 23)</small>		
32 92 23 00-0002	MSF	Up To 1,000 SF, Bermuda Sod, Installed On Level Ground	1,517.82	
32 92 23 00-0003	MSF	>1,000 To 4,000 SF, Bermuda Sod, Installed On Level Ground.....	1,242.83	
32 92 23 00-0004	MSF	>4,000 To 8,000 SF, Bermuda Sod, Installed On Level Ground.....	1,049.06	
32 92 23 00-0005	MSF	>8,000 SF, Bermuda Sod, Installed On Level Ground.....	899.33	
32 92 23 00-0006	MSF	Up To 1,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	1,791.83	
32 92 23 00-0007	MSF	>1,000 To 4,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,476.36	
32 92 23 00-0008	MSF	>4,000 To 8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,210.17	
32 92 23 00-0009	MSF	>8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,036.33	
32 92 23 00-0010		Zoysia Sod <small>(32 92 23)</small>		
32 92 23 00-0011	MSF	Up To 1,000 SF, Zoysia Sod, Installed On Level Ground	2,360.34	
32 92 23 00-0012	MSF	>1,000 To 4,000 SF, Zoysia Sod, Installed On Level Ground.....	1,874.72	
32 92 23 00-0013	MSF	>4,000 To 8,000 SF, Zoysia Sod, Installed On Level Ground.....	1,575.64	
32 92 23 00-0014	MSF	>8,000 SF, Zoysia Sod, Installed On Level Ground.....	1,320.59	
32 92 23 00-0015	MSF	Up To 1,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes	2,634.35	



		Exterior Improvements	32
		Planting	32 90
		Turf And Grasses	32 92

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 23 00-0016	MSF		>1,000 To 4,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,108.25	
32 92 23 00-0017	MSF		>4,000 To 8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,736.75	
32 92 23 00-0018	MSF		>8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,457.59	
32 92 23 00-0019			Tall Fescue Sod <small>(32 92 23)</small>		
32 92 23 00-0020	MSF		Up To 1,000 SF, Tall Fescue Sod, Installed On Level Ground.....	2,321.34	
			<i>For Hybrid Fescue "Marathon", Add</i>	177.33	
32 92 23 00-0021	MSF		>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,845.46	
			<i>For Hybrid Fescue "Marathon", Add</i>	133.17	
32 92 23 00-0022	MSF		>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,551.26	
			<i>For Hybrid Fescue "Marathon", Add</i>	111.09	
32 92 23 00-0023	MSF		>8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,301.09	
			<i>For Hybrid Fescue "Marathon", Add</i>	89.01	
32 92 23 00-0024	MSF		Up To 1,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,595.35	
			<i>For Hybrid Fescue "Marathon", Add</i>	177.33	
32 92 23 00-0025	MSF		>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,078.99	
			<i>For Hybrid Fescue "Marathon", Add</i>	133.17	
32 92 23 00-0026	MSF		>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,712.37	
			<i>For Hybrid Fescue "Marathon", Add</i>	111.09	
32 92 23 00-0027	MSF		>8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,438.09	
			<i>For Hybrid Fescue "Marathon", Add</i>	89.01	
32 92 23 00-0028			Centipede Sod <small>(32 92 23)</small>		
32 92 23 00-0029	MSF		Up To 1,000 SF, Centipede Sod, Installed On Level Ground.....	2,034.65	
32 92 23 00-0030	MSF		>1,000 To 4,000 SF, Centipede Sod, Installed On Level Ground.....	1,630.45	
32 92 23 00-0031	MSF		>4,000 To 8,000 SF, Centipede Sod, Installed On Level Ground.....	1,372.08	
32 92 23 00-0032	MSF		>8,000 SF, Centipede Sod, Installed On Level Ground.....	1,157.75	
32 92 23 00-0033	MSF		Up To 1,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,308.66	
32 92 23 00-0034	MSF		>1,000 To 4,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,863.98	
32 92 23 00-0035	MSF		>4,000 To 8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,533.19	
32 92 23 00-0036	MSF		>8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,294.75	
32 92 23 00-0037			Kentucky Blue Grass Sod <small>(32 92 23)</small>		
32 92 23 00-0038	MSF		Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,919.80	
32 92 23 00-0039	MSF		>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,544.31	
32 92 23 00-0040	MSF		>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,300.30	
32 92 23 00-0041	MSF		>8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,100.32	
32 92 23 00-0042	MSF		Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,193.81	
32 92 23 00-0043	MSF		>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,777.84	
32 92 23 00-0044	MSF		>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,461.41	
32 92 23 00-0045	MSF		>8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,237.32	
32 92 23 00-0046			Ballfield Mix 2A Sod 10% Bermuda Shorts, 10% Barclay, 80% Turfstar <small>(32 92 23)</small>		
32 92 23 00-0047	MSF		Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground.....	1,747.52	
32 92 23 00-0048	MSF		>1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground.....	1,415.10	
32 92 23 00-0049	MSF		>4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground.....	1,192.63	
32 92 23 00-0050	MSF		>8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground.....	1,014.18	
32 92 23 00-0051	MSF		Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,021.53	
32 92 23 00-0052	MSF		>1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,648.63	
32 92 23 00-0053	MSF		>4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,353.74	
32 92 23 00-0054	MSF		>8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,151.18	
32 92 23 00-0055			GN-1 Sod <small>(32 92 23)</small>		
32 92 23 00-0056	MSF		Up To 1,000 SF, GN-1 Sod, Installed On Level Ground.....	2,343.87	
32 92 23 00-0057	MSF		>1,000 To 4,000 SF, GN-1 Sod, Installed On Level Ground.....	1,862.36	
32 92 23 00-0058	MSF		>4,000 To 8,000 SF, GN-1 Sod, Installed On Level Ground.....	1,565.34	
32 92 23 00-0059	MSF		>8,000 SF, GN-1 Sod, Installed On Level Ground.....	1,312.35	
32 92 23 00-0060	MSF		Up To 1,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,617.88	
32 92 23 00-0061	MSF		>1,000 To 4,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,095.89	
32 92 23 00-0062	MSF		>4,000 To 8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,726.45	
32 92 23 00-0063	MSF		>8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,449.35	
32 92 23 00-0064			Tifgreen Bermuda Sod <small>(32 92 23)</small>		
32 92 23 00-0065	MSF		Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground.....	2,474.18	
32 92 23 00-0066	MSF		>1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground.....	1,960.09	
32 92 23 00-0067	MSF		>4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground.....	1,646.79	
32 92 23 00-0068	MSF		>8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground.....	1,377.51	
32 92 23 00-0069	MSF		Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,748.19	
32 92 23 00-0070	MSF		>1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,193.62	
32 92 23 00-0071	MSF		>4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,807.90	
32 92 23 00-0072	MSF		>8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,514.51	

32 93 Plants (32 90)

32 Exterior Improvements**32 90 Planting****32 93 Plants**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST
32 93 13 Ground Covers (32 93)

Note: Materials only. See CSI section 32 93 53 00-0057 for installation and planting of ground cover.

32 93 13 00-0001 Ornamental Grasses (32 93 13)			
32 93 13 00-0002	EA	1 Gallon, Cortaderia selloana - Pampas Grass.....	17.29
32 93 13 00-0003	EA	2 Gallon, Cortaderia selloana - Pampas Grass.....	31.96
32 93 13 00-0004	EA	3 Gallon, Cortaderia selloana - Pampas Grass.....	58.08
32 93 13 00-0005	EA	5 Gallon, Cortaderia selloana - Pampas Grass.....	105.71
32 93 13 00-0006	EA	1 Quart, Imperata cylindrica - Japanese Blood Grass.....	13.23
32 93 13 00-0007	EA	1 Gallon, Imperata cylindrica - Japanese Blood Grass.....	17.60
32 93 13 00-0008	EA	2 Gallon, Imperata cylindrica - Japanese Blood Grass.....	18.83
32 93 13 00-0009	EA	1 Quart, Koeleria glauca - Blue Hair Grass.....	13.20
32 93 13 00-0010	EA	1 Gallon, Koeleria glauca - Blue Hair Grass.....	17.60
32 93 13 00-0011	EA	3 Gallon, Koeleria glauca - Blue Hair Grass.....	42.57
32 93 13 00-0012	EA	1 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	16.71
32 93 13 00-0013	EA	3 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	21.65
32 93 13 00-0014	EA	5 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	41.39
32 93 13 00-0015	EA	1 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass.....	15.51
32 93 13 00-0016	EA	3 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass.....	24.38
32 93 13 00-0017	EA	5 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass.....	41.72
32 93 13 00-0018	EA	1 Quart, Pennisetum setaceum - Fountain Grass.....	14.43
32 93 13 00-0019	EA	1 Gallon, Pennisetum setaceum - Fountain Grass.....	36.72
32 93 13 00-0020	EA	3 Gallon, Pennisetum setaceum - Fountain Grass.....	48.41
32 93 13 00-0021	EA	1 Gallon, Saccharum ravennae - Ravenna Grass.....	45.70
32 93 13 00-0022	EA	3 Gallon, Saccharum ravennae - Ravenna Grass.....	51.34
32 93 13 00-0023	EA	7 Gallon, Saccharum ravennae - Ravenna Grass.....	84.69
32 93 13 00-0024	EA	1 Gallon, Spartina pectinata - Variegated Cord Grass.....	24.81
32 93 13 00-0025	EA	2 Gallon, Spartina pectinata - Variegated Cord Grass.....	37.14
32 93 13 00-0026	EA	1 Quart, Stipa gigantea - Giant Feather Grass.....	18.94
32 93 13 00-0027	EA	1 Gallon, Stipa gigantea - Giant Feather Grass.....	26.40

32 93 13 00-0028 Ground Covers (32 93 13)

32 93 13 00-0029	EA	1 Gallon Agave Attenuata - Century Plant.....	6.81
32 93 13 00-0030	EA	5 Gallon Agave Attenuata - Century Plant.....	18.35
32 93 13 00-0031	EA	15 Gallon Agave Attenuata - Century Plant.....	60.66
32 93 13 00-0032	EA	1 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac.....	5.81
32 93 13 00-0033	EA	5 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac.....	16.16
32 93 13 00-0034	EA	1 Gallon Ceanothus 'Yankee Point' - Wild Lilac.....	5.81
32 93 13 00-0035	EA	5 Gallon Ceanothus 'Yankee Point' - Wild Lilac.....	15.10
32 93 13 00-0036	EA	1 Gallon Dietes Vegata - Fortnight Lily.....	5.09
32 93 13 00-0037	EA	5 Gallon Dietes Vegata - Fortnight Lily.....	12.55
32 93 13 00-0038	EA	1 Gallon Juncus Patens 'Elk Blue' - California Gray Rush.....	9.46
32 93 13 00-0039	EA	5 Gallon Juncus Patens 'Elk Blue' - California Gray Rush.....	24.85
32 93 13 00-0040	EA	4" Pot Miscanthus 'Morning Light' - NCN.....	7.09
32 93 13 00-0041	EA	20 Count Flat Miscanthus 'Morning Light' - NCN.....	104.59
32 93 13 00-0042	EA	1 Gallon Nassella Tenuissima - Mexican Feather Grass.....	9.46
32 93 13 00-0043	EA	1 Gallon Trachelospermum Jasminoides - Star Jasmine.....	5.14
32 93 13 00-0044	EA	5 Gallon Trachelospermum Jasminoides - Star Jasmine.....	12.88
32 93 13 00-0045	EA	1 Gallon Westringia Fruticosa - Coast Rosemary.....	5.09
32 93 13 00-0046	EA	5 Gallon Westringia Fruticosa - Coast Rosemary.....	12.55
32 93 13 00-0047	EA	15 Gallon Westringia Fruticosa - Coast Rosemary.....	51.49
32 93 13 00-0048	EA	1 Quart Carex 'Bowles Golden' - Variegated Japanese Sedge.....	11.25
32 93 13 00-0049	EA	1 Gallon Carex 'Bowles Golden' - Variegated Japanese Sedge.....	14.65
32 93 13 00-0050	EA	2 Gallon Juniperus horizontalis 'Plumosa Compacta' - Andorra Creeping Juniper.....	18.54
32 93 13 00-0051	EA	1 Quart Waldsteinia ternata - Barren Strawberry.....	3.18
32 93 13 00-0052	EA	1 Gallon Waldsteinia ternata - Barren Strawberry.....	7.64
32 93 13 00-0053	EA	1 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	10.40
32 93 13 00-0054	EA	2 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	19.74
32 93 13 00-0055	EA	5 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	34.81
32 93 13 00-0056	EA	1 Gallon Liriope muscari 'Big Blue' - Big Blue Liriope.....	3.56
32 93 13 00-0057	EA	1 Gallon Distictis buccinatoria - Blood Red Trumpet Vine.....	6.58
32 93 13 00-0058	EA	5 Gallon Distictis buccinatoria - Blood Red Trumpet Vine.....	23.14
32 93 13 00-0059	EA	1 Gallon Juniperus horizontalis 'Wiltoni' - Blue Rug Juniper.....	8.64
32 93 13 00-0060	EA	4" Pot Parthenocissus tricuspidata - Boston Ivy.....	4.25
32 93 13 00-0061	EA	1 Gallon Parthenocissus tricuspidata - Boston Ivy.....	9.68
32 93 13 00-0062	EA	5 Gallon Parthenocissus tricuspidata - Boston Ivy.....	26.49
32 93 13 00-0063	EA	3 Gallon Bougainvillea spectabilis - Bougainvillea.....	11.13
32 93 13 00-0064	EA	1 Quart Iberis sempervirens - Candytuft.....	3.18
32 93 13 00-0065	EA	1 Gallon Iberis sempervirens - Candytuft.....	7.64
32 93 13 00-0066	EA	1 Gallon Gelsemium sempervirens - Carolina Jessamine.....	9.17
32 93 13 00-0067	EA	5 Gallon Gelsemium sempervirens - Carolina Jessamine.....	33.11
32 93 13 00-0068	EA	3" Pot Ajuga reptans - Carpet Bugle.....	1.91
32 93 13 00-0069	EA	1 Quart Ajuga reptans - Carpet Bugle.....	3.18
32 93 13 00-0070	EA	1 Gallon Ajuga reptans - Carpet Bugle.....	7.64
32 93 13 00-0071	EA	24 Plant Flat Ajuga reptans - Carpet Bugle.....	32.90
32 93 13 00-0072	EA	1 Gallon Macfadyena unguis-cati - Cat Claw Vine.....	7.64
32 93 13 00-0073	EA	5 Gallon Macfadyena unguis-cati - Cat Claw Vine.....	33.11
32 93 13 00-0074	EA	1 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	9.98
32 93 13 00-0075	EA	3 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	22.08
32 93 13 00-0076	EA	5 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	33.11



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93	13 00-0077	EA	1 Gallon Ranunculaceae - Clematis Varieties.....	10.97	
32 93	13 00-0078	EA	2 Gallon Ranunculaceae - Clematis Varieties.....	20.28	
32 93	13 00-0079	EA	1 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	13.80	
32 93	13 00-0080	EA	2 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	25.90	
32 93	13 00-0081	EA	5 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	42.45	
32 93	13 00-0082	EA	4" Pot Lantana camera - Common Lantana.....	1.91	
32 93	13 00-0083	EA	1 Gallon Lantana camera - Common Lantana.....	5.52	
32 93	13 00-0084	EA	1 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia.....	6.58	
32 93	13 00-0085	EA	5 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia.....	21.65	
32 93	13 00-0086	EA	2 Quart Lysimachia nummularia - Creeping Jenny.....	3.18	
32 93	13 00-0087	EA	1 Gallon Lysimachia nummularia - Creeping Jenny.....	6.16	
32 93	13 00-0088	EA	2 Quart Liriope spicata - Creeping Lilytuft.....	5.52	
32 93	13 00-0089	EA	1 Gallon Liriope spicata - Creeping Lilytuft.....	9.98	
32 93	13 00-0090	EA	5 Gallon Liriope spicata - Creeping Lilytuft.....	21.01	
32 93	13 00-0091	EA	Bare Root Liriope spicata - Creeping Liriope.....	1.39	
32 93	13 00-0092	EA	3" Pot Rosmarinus officinalis 'Prostratus' - Creeping Rosemary.....	1.91	
32 93	13 00-0093	EA	1 Gallon Rosmarinus officinalis 'Prostratus' - Creeping Rosemary.....	7.64	
32 93	13 00-0094	EA	2-1/4" Pot Securigera varia - Crown Vetch.....	1.27	
32 93	13 00-0095	EA	50 Plant Flat Securigera varia - Crown Vetch.....	43.09	
32 93	13 00-0096	EA	1 Quart Senecio cineraria - Dusty Miller.....	3.18	
32 93	13 00-0097	EA	1 Gallon Senecio cineraria - Dusty Miller.....	7.64	
32 93	13 00-0098	EA	2 Gallon Aristolochia macrophylla - Dutchman's Pipe.....	26.53	
32 93	13 00-0099	EA	5 Gallon Aristolochia macrophylla - Dutchman's Pipe.....	48.61	
32 93	13 00-0100	EA	1 Gallon Ilex cornuta - Dwarf Holly.....	5.76	
32 93	13 00-0101	EA	3 Gallon Ilex cornuta - Dwarf Holly.....	12.35	
32 93	13 00-0102	EA	3 Gallon Rhamphiolepis umbellata 'Minor' - Dwarf Indian Hawthorn.....	12.35	
32 93	13 00-0103	EA	1 Gallon Tradescantia spathacea - Dwarf Oyster Plant.....	4.12	
32 93	13 00-0104	EA	2" To 3" Pot Hedera helix - English Ivy.....	1.91	
32 93	13 00-0105	EA	12" To 15" Runners Hedera helix - English Ivy.....	3.18	
32 93	13 00-0106	EA	1 Gallon Hedera helix - English Ivy.....	7.64	
32 93	13 00-0107	EA	50 Plant Flat Hedera helix - English Ivy.....	44.15	
32 93	13 00-0108	EA	4" Pot Lavandula angustifolia - English Lavender.....	2.76	
32 93	13 00-0109	EA	1 Quart Lavandula angustifolia - English Lavender.....	5.31	
32 93	13 00-0110	EA	1 Gallon Lavandula angustifolia - English Lavender.....	8.70	
32 93	13 00-0111	EA	1 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper.....	8.28	
32 93	13 00-0112	EA	2 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper.....	16.56	
32 93	13 00-0113	EA	1 Quart Arundo donax - Giant Reed.....	10.19	
32 93	13 00-0114	EA	1 Gallon Arundo donax - Giant Reed.....	14.65	
32 93	13 00-0115	EA	1 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle.....	8.70	
32 93	13 00-0116	EA	2 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle.....	16.56	
32 93	13 00-0117	EA	1 Quart Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass.....	11.25	
32 93	13 00-0118	EA	1 Gallon Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass.....	16.98	
32 93	13 00-0119	EA	3" Pot Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	1.91	
32 93	13 00-0120	EA	1 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	8.70	
32 93	13 00-0121	EA	2 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	16.56	
32 93	13 00-0122	EA	1 Gallon Hardenbergia violacea - Happy Wanderer.....	7.64	
32 93	13 00-0123	EA	5 Gallon Hardenbergia violacea - Happy Wanderer.....	25.47	
32 93	13 00-0124	EA	3 Gallon Hibiscus, Assorted Colors.....	9.95	
32 93	13 00-0125	EA	1 Gallon Acorus gramineus - Japanese Sweet Flag.....	7.96	
32 93	13 00-0126	EA	1 Gallon Jasminum volubile - Wax Jasmine.....	4.01	
32 93	13 00-0127	EA	1 Gallon Jasminum volubile - Wax Jasmine.....	9.95	
32 93	13 00-0128	EA	1 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper.....	5.00	
32 93	13 00-0129	EA	3 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper.....	11.13	
32 93	13 00-0130	EA	1 Gallon Cissus antarctica - Kangaroo Vine.....	6.16	
32 93	13 00-0131	EA	5 Gallon Cissus antarctica - Kangaroo Vine.....	19.32	
32 93	13 00-0132	EA	1 Quart Stachys byzantina - Lamb's Ear.....	3.18	
32 93	13 00-0133	EA	1 Quart Stachys byzantina - Lamb's Ear.....	7.64	
32 93	13 00-0134	EA	1 Gallon Lantana spp. Various Colors.....	4.51	
32 93	13 00-0135	EA	1 Gallon Lantana sellowiana - Trailing Lantana.....	2.96	
32 93	13 00-0136	EA	1 Gallon Cocculus laurifolius - Laurel-leaf Snailseed.....	6.16	
32 93	13 00-0137	EA	5 Gallon Cocculus laurifolius - Laurel-leaf Snailseed.....	22.08	
32 93	13 00-0138	EA	1 Gallon Liriope Evergreen Giant, 6 To 8 Bibs Minimum.....	4.51	
32 93	13 00-0139	EA	1 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum.....	5.68	
32 93	13 00-0140	EA	3 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum.....	9.09	
32 93	13 00-0141	EA	1 Quart Moss Phlox, Creeping Phlox.....	3.18	
32 93	13 00-0142	EA	1 Gallon Moss Phlox, Creeping Phlox.....	7.64	
32 93	13 00-0143	EA	1 Gallon Nephrolepis exaltata - Common Boston Fern.....	4.01	
32 93	13 00-0144	EA	4" Pot Ophiopogon Japonicus - Mondo grass.....	1.91	
32 93	13 00-0145	EA	1 Gallon Ophiopogon Japonicus - Mondo grass.....	7.64	
32 93	13 00-0146	EA	5 Gallon Ophiopogon Japonicus - Mondo grass.....	17.62	
32 93	13 00-0147	EA	2" To 3" High Oregon Holly-Grape.....	8.82	
32 93	13 00-0148	EA	1 Gallon Pachysandra terminalis - Pachysandra.....	11.49	
32 93	13 00-0149	EA	2-1/4" Pot Vinca minor - Periwinkle.....	1.06	
32 93	13 00-0150	EA	4" Pot Vinca minor - Periwinkle.....	3.18	
32 93	13 00-0151	EA	Bare Root Vinca minor - Periwinkle.....	1.06	
32 93	13 00-0152	EA	1 Quart Nepeta mussinii - Persian Catmint.....	3.18	
32 93	13 00-0153	EA	1 Gallon Nepeta mussinii - Persian Catmint.....	6.58	
32 93	13 00-0154	EA	1 Gallon Coprosma kirkii - Prostrate Coprosma.....	5.31	
32 93	13 00-0155	EA	5 Gallon Coprosma kirkii - Prostrate Coprosma.....	19.32	
32 93	13 00-0156	EA	1 Gallon Juniperus Horizontalis - Prostrate Juniper.....	8.70	
32 93	13 00-0157	EA	3 Gallon Juniperus Horizontalis - Prostrate Juniper.....	18.68	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 13 00-0158	EA	5 Gallon Juniperus Horizontalis - Prostrate Juniper	27.59
32 93 13 00-0159	EA	1 Quart Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	7.58
32 93 13 00-0160	EA	1 Gallon Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	19.64
32 93 13 00-0161	EA	24 Plant Flat Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	32.90
32 93 13 00-0162	EA	1 Gallon Tradescantia spathacea - Rhoeco Discolor "Dwarf"	4.01
32 93 13 00-0163	EA	1 Quart Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	4.46
32 93 13 00-0164	EA	1 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	7.96
32 93 13 00-0165	EA	2 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	12.42
32 93 13 00-0166	EA	1 Gallon Hymenocallis latifolia - Spider Lily	4.94
32 93 13 00-0167	EA	3 Gallon Hymenocallis latifolia - Spider Lily	13.18
32 93 13 00-0168	EA	1 Quart Hypericum perforatum - St. John's Wort	3.18
32 93 13 00-0169	EA	1 Gallon Hypericum perforatum - St. John's Wort	7.64
32 93 13 00-0170	EA	5 Gallon Hypericum perforatum - St. John's Wort	19.74
32 93 13 00-0171	EA	24" To 30" High Viburnum awabuki - Sweet Viburnum	26.86
32 93 13 00-0172	EA	1 Gallon Campsis radicans - Trumpet Creeper	11.67
32 93 13 00-0173	EA	2 Gallon Campsis radicans - Trumpet Creeper	17.62
32 93 13 00-0174	EA	5 Gallon Campsis radicans - Trumpet Creeper	42.45
32 93 13 00-0175	EA	2-1/4" Pot Vinca major - Variegated Greater Periwinkle	1.06
32 93 13 00-0176	EA	4" Pot Vinca major - Variegated Greater Periwinkle	3.18
32 93 13 00-0177	EA	Bare Root Vinca major - Variegated Greater Periwinkle	1.06
32 93 13 00-0178	EA	1 Quart Carex hachijoensis - Variegated Japanese Sedge	5.73
32 93 13 00-0179	EA	1 Gallon Carex hachijoensis - Variegated Japanese Sedge	7.96
32 93 13 00-0180	EA	2 Gallon Carex hachijoensis - Variegated Japanese Sedge	12.42
32 93 13 00-0181	EA	1 Gallon Liriope muscari 'Variegata' - Variegated Lilyturf	8.70
32 93 13 00-0182	EA	2 Quart Verbena peruviana "St. Paul" - St. Paul Verbena	4.03
32 93 13 00-0183	EA	1 Gallon Verbena peruviana "St. Paul" - St. Paul Verbena	6.16
32 93 13 00-0184	EA	48 Plant Flat Vinca minor - Lesser Periwinkle	37.83
32 93 13 00-0185	EA	3" Pot Parthenocissus quinquefolia - Virginia Creeper	1.91
32 93 13 00-0186	EA	1 Gallon Parthenocissus quinquefolia - Virginia Creeper	9.98
32 93 13 00-0187	EA	1 Gallon Jasminum polyanthum - Winter Jasmine	7.64
32 93 13 00-0188	EA	2 Gallon Jasminum polyanthum - Winter Jasmine	15.28
32 93 13 00-0189	EA	5 Gallon Jasminum polyanthum - Winter Jasmine	26.53
32 93 13 00-0190	EA	1 Gallon Cistaceae - Wrinkleleaf Rock Rose	6.16
32 93 13 00-0191	EA	5 Gallon Cistaceae - Wrinkleleaf Rock Rose	21.01
32 93 13 00-0192	EA	Flat Hedera canariensis - Algerian Ivy	13.82
32 93 13 00-0193	EA	2-1/2" Pot Hedera canariensis - Algerian Ivy	3.65
32 93 13 00-0194	EA	Flat Gazania 'Copper King'	11.34
32 93 13 00-0195	EA	1 Gallon Gazania 'Copper King'	3.87
32 93 13 00-0196	EA	Flat Myoporum parvifolium - Myoporum	13.82
32 93 13 00-0197	EA	1 Gallon Myoporum parvifolium - Myoporum	3.87
32 93 13 00-0198	EA	5 Gallon Myoporum parvifolium - Myoporum	11.06
32 93 13 00-0199	EA	1 Gallon Lantana montevidensis - Purple Lantana	3.87
32 93 13 00-0200	EA	5 Gallon Lantana montevidensis - Purple Lantana	11.06
32 93 13 00-0201	EA	Flat Carpobrotus - Ice Plant	10.51
32 93 13 00-0202	EA	1 Gallon Carpobrotus - Ice Plant	4.42

32 93 23 Plants And Bulbs (32 93)

Note: Materials only. See CSI section 32 93 53 00-0057 for installation and planting of bulbs and annuals.

32 93 23 00-0001 Perennials (32 93 23)

32 93 23 00-0002	EA	2 Quart Assorted Daylilies	6.16
32 93 23 00-0003	EA	1 Gallon Assorted Daylilies	8.70
32 93 23 00-0004	EA	2 Gallon Assorted Daylilies	14.43
32 93 23 00-0005	EA	1 Quart Azure Penstemon	3.18
32 93 23 00-0006	EA	1 Gallon Azure Penstemon	7.96
32 93 23 00-0007	EA	1 Quart Balloon Flower	3.18
32 93 23 00-0008	EA	1 Gallon Balloon Flower	7.96
32 93 23 00-0009	EA	1 Quart Black-eyed Susan	3.18
32 93 23 00-0010	EA	1 Gallon Black-eyed Susan	7.96
32 93 23 00-0011	EA	2 Gallon Black-eyed Susan	10.30
32 93 23 00-0012	EA	1 Quart Blackberry Lily	3.18
32 93 23 00-0013	EA	1 Gallon Blackberry Lily	7.96
32 93 23 00-0014	EA	1 Quart Blank Flower	3.18
32 93 23 00-0015	EA	1 Gallon Blank Flower	7.32
32 93 23 00-0016	EA	2 Gallon Blank Flower	10.30
32 93 23 00-0017	EA	1 Quart Blazing Star, Gayfeather	3.18
32 93 23 00-0018	EA	1 Gallon Blazing Star, Gayfeather	7.96
32 93 23 00-0019	EA	1 Quart Bloodred Geranium	5.41
32 93 23 00-0020	EA	1 Gallon Bloodred Geranium	9.13
32 93 23 00-0021	EA	1 Quart Blue Plumbago	3.18
32 93 23 00-0022	EA	1 Gallon Blue Plumbago	7.96
32 93 23 00-0023	EA	1 Quart Blue Star	5.73
32 93 23 00-0024	EA	1 Gallon Blue Star	9.13
32 93 23 00-0025	EA	1 Quart Cardinal Flower	3.18
32 93 23 00-0026	EA	1 Gallon Cardinal Flower	7.96
32 93 23 00-0027	EA	4" Pot Columbine	1.91
32 93 23 00-0028	EA	1 Quart Columbine	3.18
32 93 23 00-0029	EA	1 Gallon Columbine	7.96
32 93 23 00-0030	EA	1 Quart Common Globeflower	3.18
32 93 23 00-0031	EA	1 Gallon Common Globeflower	7.96
32 93 23 00-0032	EA	1 Quart Cottage Pink, Scotch Pink	3.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0033 EA 1 Quart Cottage Pink, Scotch Pink	7.96	
32 93 23 00-0034 EA 1 Gallon Astilbe 'Deutschland'	11.46	
32 93 23 00-0035 EA 1 Quart Diploid	4.03	
32 93 23 00-0036 EA 1 Gallon Diploid	9.13	
32 93 23 00-0037 EA 3 Gallon Diploid	15.71	
32 93 23 00-0038 EA 4" Pot Dune Sunflower	4.54	
32 93 23 00-0039 EA 1 Quart Evans Begonia	5.73	
32 93 23 00-0040 EA 1 Gallon Evans Begonia	10.30	
32 93 23 00-0041 EA 1 Quart False Dragonhead	3.18	
32 93 23 00-0042 EA 1 Gallon False Dragonhead	7.96	
32 93 23 00-0043 EA 1 Quart False Spirea	3.18	
32 93 23 00-0044 EA 1 Gallon False Spirea	10.30	
32 93 23 00-0045 EA 3 Gallon False Spirea	14.22	
32 93 23 00-0046 EA 2 Quart False Sunflower	5.09	
32 93 23 00-0047 EA 1 Gallon False Sunflower	7.96	
32 93 23 00-0048 EA 2 Gallon False Sunflower	10.30	
32 93 23 00-0049 EA 1 Gallon Foxglove	7.32	
32 93 23 00-0050 EA 2 Gallon Foxglove	10.30	
32 93 23 00-0051 EA 3 Gallon Foxglove	14.86	
32 93 23 00-0052 EA 1 Gallon Francee Hostas	12.89	
32 93 23 00-0053 EA 1 Quart Garden Phlox	3.18	
32 93 23 00-0054 EA 1 Gallon Garden Phlox	7.96	
32 93 23 00-0055 EA 2 Quart Golden Groundsel	6.79	
32 93 23 00-0056 EA 2 Gallon Golden Groundsel	13.69	
32 93 23 00-0057 EA 1 Quart Golden Star	3.18	
32 93 23 00-0058 EA 1 Gallon Golden Star	7.96	
32 93 23 00-0059 EA 1 Quart Goldenrod	3.18	
32 93 23 00-0060 EA 1 Gallon Goldenrod	7.96	
32 93 23 00-0061 EA 1 Gallon Happy Returns Daylillies	14.82	
32 93 23 00-0062 EA 4" Pot Hardy Aster, Michaelmas Daisy	1.91	
32 93 23 00-0063 EA 1 Quart Hardy Aster, Michaelmas Daisy	3.18	
32 93 23 00-0064 EA 1 Gallon Hardy Aster, Michaelmas Daisy	7.96	
32 93 23 00-0065 EA 1 Quart Hardy Chrysanthemum	2.76	
32 93 23 00-0066 EA 6" To 8" Pot Hardy Chrysanthemum	4.57	
32 93 23 00-0067 EA 1 Gallon Hardy Chrysanthemum	7.32	
32 93 23 00-0068 EA 1 Gallon Herbaceous Peony	11.36	
32 93 23 00-0069 EA 2 Gallon Herbaceous Peony	18.15	
32 93 23 00-0070 EA 3 Gallon Herbaceous Peony	23.88	
32 93 23 00-0071 EA 4" Pot Japanese Anemone	1.91	
32 93 23 00-0072 EA 1 Quart Japanese Anemone	5.73	
32 93 23 00-0073 EA 2 Gallon Japanese Anemone	10.30	
32 93 23 00-0074 EA 2" Pot Japanese Spurge	1.13	
32 93 23 00-0075 EA 6" Pot Japanese Spurge	1.70	
32 93 23 00-0076 EA 1 Gallon Japanese Spurge	7.31	
32 93 23 00-0077 EA 1 Quart Oriental Poppy	4.57	
32 93 23 00-0078 EA 1 Gallon Oriental Poppy	9.13	
32 93 23 00-0079 EA 48 Plant Flat Pachysandra terminalis	37.83	
32 93 23 00-0080 EA 1 Gallon Pacific Coast Iris	6.26	
32 93 23 00-0081 EA 3 Gallon Pacific Coast Iris	11.89	
32 93 23 00-0082 EA 1 Gallon Palace Purple Coral Bells	12.05	
32 93 23 00-0083 EA 4" Pot Perennial Salvia	1.91	
32 93 23 00-0084 EA 1 Quart Perennial Salvia	3.18	
32 93 23 00-0085 EA 1 Gallon Perennial Salvia	7.96	
32 93 23 00-0086 EA 1 Quart Pincushion Flower	3.18	
32 93 23 00-0087 EA 1 Gallon Pincushion Flower	7.96	
32 93 23 00-0088 EA 2 Quart Plantain Lily	6.16	
32 93 23 00-0089 EA 1 Gallon Plantain Lily	8.70	
32 93 23 00-0090 EA 2 Gallon Plantain Lily	14.43	
32 93 23 00-0091 EA 3 Gallon Plantain Lily	27.28	
32 93 23 00-0092 EA 2 Quart Purple Coneflower	5.73	
32 93 23 00-0093 EA 1 Gallon Purple Coneflower	7.96	
32 93 23 00-0094 EA 2 Gallon Purple Coneflower	10.30	
32 93 23 00-0095 EA 1 Quart Purple Loosestrife	3.18	
32 93 23 00-0096 EA 1 Gallon Purple Loosestrife	7.96	
32 93 23 00-0097 EA 1 Quart Rose Mallow	6.26	
32 93 23 00-0098 EA 2 Gallon Rose Mallow	11.36	
32 93 23 00-0099 EA 3 Gallon Rose Mallow	19.42	
32 93 23 00-0100 EA 1 Gallon Autumn Joy Sedum	12.14	
32 93 23 00-0101 EA 1 Quart Siberian Iris	5.41	
32 93 23 00-0102 EA 2 Gallon Siberian Iris	10.30	
32 93 23 00-0103 EA 3 Gallon Siberian Iris	14.22	
32 93 23 00-0104 EA 1 Quart Speedwell	3.18	
32 93 23 00-0105 EA 1 Gallon Speedwell	7.96	
32 93 23 00-0106 EA 1 Quart Tetraploid	7.96	
32 93 23 00-0107 EA 1 Gallon Tetraploid	14.86	
32 93 23 00-0108 EA 3 Gallon Tetraploid	20.27	
32 93 23 00-0109 EA 1 Quart Threadleaf Coreopsis	3.18	
32 93 23 00-0110 EA 1 Gallon Threadleaf Coreopsis	7.96	
32 93 23 00-0111 EA 1 Quart Torch Lily	3.18	
32 93 23 00-0112 EA 1 Quart Bluebeard	5.73	
32 93 23 00-0113 EA 1 Gallon Bluebeard	8.49	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0114 EA 2 Gallon Bluebeard	12.42	
32 93 23 00-0115 Annuals <small>(32 93 23)</small>		
32 93 23 00-0116 EA 2-1/2" Pot Annual Flowers	1.48	
32 93 23 00-0117 EA 3" Pot Annual Flowers.....	2.00	
32 93 23 00-0118 EA 4" Pot Annual Flowers.....	4.27	
32 93 23 00-0119 EA 5-1/2" Pot Annual Flowers	5.68	
32 93 23 00-0120 EA 6" Pot Annual Flowers.....	11.25	
32 93 23 00-0121 EA 8" Pot Annual Flowers.....	18.75	
32 93 23 00-0122 EA 36 Plant Flat Annual Flowers.....	24.54	
32 93 23 00-0123 EA 48 Plant Flat Annual Flowers.....	27.84	
32 93 23 00-0124 Bulbs <small>(32 93 23)</small>		
32 93 23 00-0125 EA Top Size Allium giganteum - Giant Ornamental Onion	5.14	
32 93 23 00-0126 EA Top Size Allium sphaerocephalum - Drumstick Ornamental Onion	0.30	
32 93 23 00-0127 EA Top Size Crocus Hybrid.....	0.34	
32 93 23 00-0128 EA Top Size Eranthis hyemalis - Winter Aconite	0.43	
32 93 23 00-0129 EA Top Size Galanthus nivalis - Snowdrops	0.55	
32 93 23 00-0130 EA Top Size Iris reticulata cvs - Dutch Iris.....	0.22	
32 93 23 00-0131 EA Top Size Muscari armeniacum - Grape Hyacinth	0.26	
32 93 23 00-0132 EA Top Size Muscari latifolium - Grape Hyacinth	0.30	
32 93 23 00-0133 EA Narcissus 'Carlton' - Carlton Daffodil DNI	1.78	
32 93 23 00-0134 EA Narcissus 'Dutch Master' - Dutch Master Daffodil DNI.....	0.85	
32 93 23 00-0135 EA Narcissus 'February Gold' - February Gold Daffodil DNI.....	0.89	
32 93 23 00-0136 EA Narcissus 'Ice Follies' - Ice Follies Daffodil DNI.....	0.89	
32 93 23 00-0137 EA Narcissus 'Mount Hood' - Mount Hood Daffodil DNI	0.93	
32 93 23 00-0138 EA Narcissus 'Papillon Blanc' - Papillon Blanc Daffodil DNI	0.99	
32 93 23 00-0139 EA Narcissus 'Pipit' - Pipit Daffodil DNI	0.93	
32 93 23 00-0140 EA Narcissus 'Salome' - Salome Daffodil DNI.....	0.87	
32 93 23 00-0141 EA Narcissus 'Tete A Tete' - Tete A Tete Daffodil DNI	0.93	
32 93 23 00-0142 EA Narcissus 'Thalia' - Thalia Daffodil DNI.....	0.93	
32 93 23 00-0143 EA Top Size Scilla siberica - Siberian Squill.....	0.28	
32 93 23 00-0144 EA Top Size Tulip 'Angelique' - Angelique Tulip.....	0.79	
32 93 23 00-0145 EA Top Size Tulip 'Apeldoorn' - Apeldoorn Tulip	0.59	
32 93 23 00-0146 EA Top Size Tulip 'Apricot Beauty' - Apricot Beauty Tulip	0.79	
32 93 23 00-0147 EA Top Size Tulip 'Big Smile' - Big Smile Tulip	0.69	
32 93 23 00-0148 EA Top Size Tulip 'Black Parrot' - Black Parrot Tulip.....	0.99	
32 93 23 00-0149 EA Top Size Tulip 'Blue Heron' - Blue Heron Tulip.....	0.75	
32 93 23 00-0150 EA Top Size Tulip 'Cardinal' - Cardinal Tulip	0.65	
32 93 23 00-0151 EA Top Size Tulip 'Christmas Marvel' - Christmas Marvel Tulip.....	0.73	
32 93 23 00-0152 EA Top Size Tulip clusiana - Species Tulip	0.73	
32 93 23 00-0153 EA Top Size Tulip 'Elizabeth Arden' - Elizabeth Arden Tulip	0.73	
32 93 23 00-0154 EA Top Size Tulip 'Golden Apledoorn' - Golden Apledoorn Tulip	0.59	
32 93 23 00-0155 EA Top Size Tulip 'Golden Emperor' - Golden Emperor Tulip	0.57	
32 93 23 00-0156 EA Top Size Tulip 'Halcro' - Halcro Tulip.....	0.59	
32 93 23 00-0157 EA Top Size Tulip 'Ivory Floridale' - Ivory Floradale Tulip.....	0.99	
32 93 23 00-0158 EA Top Size Tulip 'Orange Emperor' - Orange Emperor Tulip	0.59	
32 93 23 00-0159 EA Top Size Tulip 'Passionale' - Passionale Tulip.....	0.79	
32 93 23 00-0160 EA Top Size Tulip 'Peach Blossom' - Peach Blossom Tulip	0.85	
32 93 23 00-0161 EA Top Size Tulip 'Peer Gynt' - Peer Gynt Tulip	0.89	
32 93 23 00-0162 EA Top Size Tulip 'Pink Diamond' - Pink Diamond Tulip	0.71	
32 93 23 00-0163 EA Top Size Tulip 'Pink Emperor' - Pink Emperor Tulip	0.67	
32 93 23 00-0164 EA Top Size Tulip praetens 'Fusilier' - Praetens Fusilier Tulip	0.73	
32 93 23 00-0165 EA Top Size Tulip 'Princes' - Princes Tulip.....	0.73	
32 93 23 00-0166 EA Top Size Tulip 'Red Riding Hood' - Red Riding Hood Tulip.....	0.57	
32 93 23 00-0167 EA Top Size Tulip saxatilis - Species Tulip.....	0.40	
32 93 23 00-0168 EA Top Size Tulip 'Shirley' - Shirley Tulip.....	0.59	
32 93 23 00-0169 EA Top Size Tulip 'Spring Green' - Spring Green Tulip	0.77	
32 93 23 00-0170 EA Top Size Tulip 'White Emperor' - White Emperor Tulip.....	0.59	
32 93 33 Shrubs <small>(32 93)</small>		
Note: (cvs = cultivar) materials only. See CSI section 32 93 53 00-0033 for installation and planting of shrubs.		
32 93 33 00-0001 Shrubs <small>(32 93 33)</small>		
32 93 33 00-0002 EA 1 Gallon Abelia x grandiflora - Abelia.....	9.80	
32 93 33 00-0003 EA 3 Gallon Abelia x grandiflora - Abelia.....	19.95	
32 93 33 00-0004 EA 5 Gallon Abelia x grandiflora - Abelia.....	38.30	
32 93 33 00-0005 EA 1 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	5.14	
32 93 33 00-0006 EA 5 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	12.72	
32 93 33 00-0007 EA 15 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	50.48	
32 93 33 00-0008 EA 3 Gallon Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	235.25	
32 93 33 00-0009 EA 18" B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	343.83	
32 93 33 00-0010 EA 24" B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	383.64	
32 93 33 00-0011 EA 30" B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	484.98	
32 93 33 00-0012 EA 36" B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	539.26	
32 93 33 00-0013 EA 18" B&B Aesculus parviflora - Bottlebrush Buckeye	108.58	
32 93 33 00-0014 EA 24" B&B Aesculus parviflora - Bottlebrush Buckeye	144.77	
32 93 33 00-0015 EA 30" B&B Aesculus parviflora - Bottlebrush Buckeye	180.96	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0016	EA	1	Gallon Agapanthus 'Peter Pan' - Lily of the Nile	5.14	
32 93 33 00-0017	EA	5	Gallon Agapanthus 'Peter Pan' - Lily of the Nile	12.72	
32 93 33 00-0018	EA	36"	B&B Aronia arbutifolia & cvs - Red Chokeberry.....	61.53	
32 93 33 00-0019	EA	42"	B&B Aronia arbutifolia & cvs - Red Chokeberry.....	72.38	
32 93 33 00-0020	EA	48"	B&B Aronia arbutifolia & cvs - Red Chokeberry.....	86.86	
32 93 33 00-0021	EA	60"	B&B Aronia arbutifolia & cvs - Red Chokeberry.....	101.34	
32 93 33 00-0022	EA	72"	B&B Aronia arbutifolia & cvs - Red Chokeberry.....	123.05	
32 93 33 00-0023	EA	36"	B&B Aronia melanocarpa & cvs - Black Chokeberry	59.72	
32 93 33 00-0024	EA	42"	B&B Aronia melanocarpa & cvs - Black Chokeberry	63.34	
32 93 33 00-0025	EA	48"	B&B Aronia melanocarpa & cvs - Black Chokeberry	66.96	
32 93 33 00-0026	EA	60"	B&B Aronia melanocarpa & cvs - Black Chokeberry	76.00	
32 93 33 00-0027	EA	36"	B&B Aronia prunifolia - Purple-Fruited Chokeberry	60.62	
32 93 33 00-0028	EA	42"	B&B Aronia prunifolia - Purple-Fruited Chokeberry	64.24	
32 93 33 00-0029	EA	48"	B&B Aronia prunifolia - Purple-Fruited Chokeberry	67.86	
32 93 33 00-0030	EA	60"	B&B Aronia prunifolia - Purple-Fruited Chokeberry	71.48	
32 93 33 00-0031	EA	1	Gallon Aspidistra elatior - Cast Iron Plant.....	12.44	
32 93 33 00-0032	EA	2	Gallon Aspidistra elatior - Cast Iron Plant.....	28.77	
32 93 33 00-0033	EA	1	Gallon Aucuba japonica "Variegata" - Gold Dust Plant.....	14.58	
32 93 33 00-0034	EA	3	Gallon Aucuba japonica "Variegata" - Gold Dust Plant.....	32.08	
32 93 33 00-0035	EA	5	Gallon Aucuba japonica "Variegata" - Gold Dust Plant.....	43.35	
32 93 33 00-0036	EA	1	Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush.....	5.14	
32 93 33 00-0037	EA	5	Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush.....	12.72	
32 93 33 00-0038	EA	1	Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush.....	5.14	
32 93 33 00-0039	EA	5	Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush.....	12.72	
32 93 33 00-0040	EA	1	Gallon Bauhinia purpurea - Orange-eye Butterfly Bush.....	15.55	
32 93 33 00-0041	EA	2	Gallon Bauhinia purpurea - Orange-eye Butterfly Bush.....	22.74	
32 93 33 00-0042	EA	15"	To 18" Berberis - Northern Bayberry	64.93	
32 93 33 00-0043	EA	2'	To 2-1/2' Berberis - Northern Bayberry	82.43	
32 93 33 00-0044	EA	2-1/2'	To 3' Berberis - Northern Bayberry	115.48	
32 93 33 00-0045	EA	1	Gallon Berberis Buxifolia 'Nana' - Barberry.....	5.81	
32 93 33 00-0046	EA	5	Gallon Berberis Buxifolia 'Nana' - Barberry.....	13.99	
32 93 33 00-0047	EA	18"	To 24" Berberis julianae - Dwarf Wintergreen Barberry.....	69.40	
32 93 33 00-0048	EA	2'	To 2-1/2' Berberis julianae - Dwarf Wintergreen Barberry.....	88.84	
32 93 33 00-0049	EA	2-1/2'	To 3' Berberis julianae - Dwarf Wintergreen Barberry.....	113.53	
32 93 33 00-0050	EA	1	Gallon Berberis thunbergii - Crimson Pygmy Barberry	18.66	
32 93 33 00-0051	EA	2	Gallon Berberis thunbergii - Crimson Pygmy Barberry	36.74	
32 93 33 00-0052	EA	3	Gallon Berberis thunbergii - Crimson Pygmy Barberry	44.91	
32 93 33 00-0053	EA	1	Gallon Berberis x mentorensis - Mentor Barberry.....	17.69	
32 93 33 00-0054	EA	5	Gallon Berberis x mentorensis - Mentor Barberry.....	49.96	
32 93 33 00-0055	EA	2'	To 3' Berberis x mentorensis - Mentor Barberry.....	69.40	
32 93 33 00-0056	EA	3'	To 4' Berberis x mentorensis - Mentor Barberry.....	107.12	
32 93 33 00-0057	EA	1	Gallon Buxus microphylla japonica - Japanese Boxwood.....	20.22	
32 93 33 00-0058	EA	5	Gallon Buxus microphylla japonica - Japanese Boxwood.....	54.24	
32 93 33 00-0059	EA	12"	To 15" Buxus microphylla japonica - Japanese Boxwood	57.74	
32 93 33 00-0060	EA	15"	To 18" Buxus microphylla japonica - Japanese Boxwood	74.26	
32 93 33 00-0061	EA	18"	To 24" Buxus microphylla japonica - Japanese Boxwood	98.95	
32 93 33 00-0062	EA	24"	To 30" Buxus microphylla japonica - Japanese Boxwood	148.52	
32 93 33 00-0063	EA	30"	To 36" Buxus microphylla japonica - Japanese Boxwood	206.26	
32 93 33 00-0064	EA	12"	To 15" Buxus sempervirens - Common Boxwood	57.74	
32 93 33 00-0065	EA	15"	To 18" Buxus sempervirens - Common Boxwood	74.26	
32 93 33 00-0066	EA	18"	To 24" Buxus sempervirens - Common Boxwood	98.95	
32 93 33 00-0067	EA	24"	To 30" Buxus sempervirens - Common Boxwood	148.52	
32 93 33 00-0068	EA	2	Gallon Buxus Hybrid - Boxwood Cultivars	38.00	
32 93 33 00-0069	EA	5	Gallon Buxus Hybrid - Boxwood Cultivars	63.34	
32 93 33 00-0070	EA	5	Gallon Buxus microphylla & cvs - Little leaf Boxwood	166.48	
32 93 33 00-0071	EA	18"	B&B Buxus microphylla & cvs - Little leaf Boxwood	90.48	
32 93 33 00-0072	EA	24"	B&B Buxus microphylla & cvs - Little leaf Boxwood	123.05	
32 93 33 00-0073	EA	30"	B&B Buxus microphylla & cvs - Little leaf Boxwood	166.48	
32 93 33 00-0074	EA	1	Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush.....	4.62	
32 93 33 00-0075	EA	5	Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush.....	14.20	
32 93 33 00-0076	EA	15	Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush.....	46.16	
32 93 33 00-0077	EA	5	Gallon Calycanthus floridus - Common Sweetshrub.....	59.72	
32 93 33 00-0078	EA	30"	B&B Calycanthus floridus - Common Sweetshrub.....	54.29	
32 93 33 00-0079	EA	36"	B&B Calycanthus floridus - Common Sweetshrub.....	72.38	
32 93 33 00-0080	EA	1	Gallon Camellia "Sasanqua" - Camellia.....	14.58	
32 93 33 00-0081	EA	3	Gallon Camellia "Sasanqua" - Camellia.....	31.10	
32 93 33 00-0082	EA	5	Gallon Camellia "Sasanqua" - Camellia.....	51.71	
32 93 33 00-0083	EA	7	Gallon Camellia "Sasanqua" - Camellia.....	77.00	
32 93 33 00-0084	EA	15	Gallon Camellia "Sasanqua" - Camellia.....	199.78	
32 93 33 00-0085	EA	1	Gallon Camellia japonica - Camellia.....	14.58	
32 93 33 00-0086	EA	3	Gallon Camellia japonica - Camellia.....	31.10	
32 93 33 00-0087	EA	5	Gallon Camellia japonica - Camellia.....	51.71	
32 93 33 00-0088	EA	5	Gallon Ceanothus americanus - New Jersey Tea.....	59.72	
32 93 33 00-0089	EA	1	Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus.....	5.81	
32 93 33 00-0090	EA	5	Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus.....	15.10	
32 93 33 00-0091	EA	5	Gallon Celastrus scandens - Bittersweet	59.72	
32 93 33 00-0092	EA	36"	B&B Celastrus scandens - Bittersweet	50.67	
32 93 33 00-0093	EA	5	Gallon Cephalanthus occidentalis - Buttonbush.....	59.72	
32 93 33 00-0094	EA	24"	B&B Cephalanthus occidentalis - Buttonbush	45.24	
32 93 33 00-0095	EA	30"	B&B Cephalanthus occidentalis - Buttonbush	50.67	
32 93 33 00-0096	EA	36"	B&B Cephalanthus occidentalis - Buttonbush	54.29	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0097	EA	18" To 24" Chaenomeles speciosa - Flowering Quince.....	52.10	
32 93 33 00-0098	EA	2' To 3' Chaenomeles speciosa - Flowering Quince.....	69.40	
32 93 33 00-0099	EA	3' To 4' Chaenomeles speciosa - Flowering Quince.....	107.12	
32 93 33 00-0100	EA	1 Gallon Cistus Hybridus - White Rockrose.....	5.14	
32 93 33 00-0101	EA	5 Gallon Cistus Hybridus - White Rockrose.....	12.72	
32 93 33 00-0102	EA	3 Gallon Clethra alnifolia & cvs - Summersweet Clethra.....	57.91	
32 93 33 00-0103	EA	18" B&B Clethra alnifolia & cvs - Summersweet Clethra.....	62.43	
32 93 33 00-0104	EA	24" B&B Clethra alnifolia & cvs - Summersweet Clethra.....	69.67	
32 93 33 00-0105	EA	30" B&B Clethra alnifolia & cvs - Summersweet Clethra.....	73.29	
32 93 33 00-0106	EA	36" B&B Clethra alnifolia & cvs - Summersweet Clethra.....	85.96	
32 93 33 00-0107	EA	1 Gallon Coleonema Pulchellum - Confetti Bush.....	5.14	
32 93 33 00-0108	EA	5 Gallon Coleonema Pulchellum - Confetti Bush.....	12.72	
32 93 33 00-0109	EA	15 Gallon Coleonema Pulchellum - Confetti Bush.....	59.55	
32 93 33 00-0110	EA	2' To 3' Cornus mas - Cornelian Cherry.....	82.43	
32 93 33 00-0111	EA	3' To 4' Cornus mas - Cornelian Cherry.....	103.03	
32 93 33 00-0112	EA	4' To 5' Cornus mas - Cornelian Cherry.....	132.00	
32 93 33 00-0113	EA	5' To 6' Cornus mas - Cornelian Cherry.....	181.38	
32 93 33 00-0114	EA	5 Gallon Cornus alba & cvs - Tartarian Dogwood.....	54.29	
32 93 33 00-0115	EA	36" B&B Cornus alba & cvs - Tartarian Dogwood.....	38.00	
32 93 33 00-0116	EA	48" B&B Cornus alba & cvs - Tartarian Dogwood.....	43.43	
32 93 33 00-0117	EA	60" B&B Cornus alba & cvs - Tartarian Dogwood.....	54.29	
32 93 33 00-0118	EA	72" B&B Cornus alba & cvs - Tartarian Dogwood.....	65.15	
32 93 33 00-0119	EA	36" B&B Cornus amomum - Silky Dogwood.....	54.29	
32 93 33 00-0120	EA	5 Gallon Cornus obliqua - Blue Fruited Dogwood.....	59.72	
32 93 33 00-0121	EA	5 Gallon Cornus racemosa - Gray Dogwood.....	59.72	
32 93 33 00-0122	EA	36" B&B Cornus racemosa - Gray Dogwood.....	54.29	
32 93 33 00-0123	EA	48" B&B Cornus racemosa - Gray Dogwood.....	63.34	
32 93 33 00-0124	EA	60" B&B Cornus racemosa - Gray Dogwood.....	68.76	
32 93 33 00-0125	EA	72" B&B Cornus racemosa - Gray Dogwood.....	83.24	
32 93 33 00-0126	EA	36" B&B Cornus sanguinea & cvs - Bloodtwig Dogwood.....	58.81	
32 93 33 00-0127	EA	48" B&B Cornus sanguinea & cvs - Bloodtwig Dogwood.....	66.05	
32 93 33 00-0128	EA	60" B&B Cornus sanguinea & cvs - Bloodtwig Dogwood.....	75.10	
32 93 33 00-0129	EA	24" B&B Cornus sericea & cvs - Redosier Dogwood.....	47.05	
32 93 33 00-0130	EA	30" B&B Cornus sericea & cvs - Redosier Dogwood.....	54.29	
32 93 33 00-0131	EA	36" B&B Cornus sericea & cvs - Redosier Dogwood.....	57.91	
32 93 33 00-0132	EA	48" B&B Cornus sericea & cvs - Redosier Dogwood.....	63.34	
32 93 33 00-0133	EA	60" B&B Cornus sericea & cvs - Redosier Dogwood.....	70.57	
32 93 33 00-0134	EA	5 Gallon Corylus americana - American Filbert.....	56.10	
32 93 33 00-0135	EA	30" B&B Corylus americana - American Filbert.....	63.34	
32 93 33 00-0136	EA	36" B&B Corylus americana - American Filbert.....	67.86	
32 93 33 00-0137	EA	48" B&B Corylus americana - American Filbert.....	73.29	
32 93 33 00-0138	EA	24" B&B Corylus avellana - Contorted Hazelnut.....	180.96	
32 93 33 00-0139	EA	30" B&B Corylus avellana - Contorted Hazelnut.....	235.25	
32 93 33 00-0140	EA	36" B&B Corylus avellana - Contorted Hazelnut.....	253.35	
32 93 33 00-0141	EA	42" B&B Corylus avellana - Contorted Hazelnut.....	325.73	
32 93 33 00-0142	EA	48" B&B Corylus avellana - Contorted Hazelnut.....	398.11	
32 93 33 00-0143	EA	60" B&B Corylus avellana - Contorted Hazelnut.....	452.40	
32 93 33 00-0144	EA	5' To 6' Cotinus coggygria - Smoke Tree.....	173.21	
32 93 33 00-0145	EA	6' To 8' Cotinus coggygria - Smoke Tree.....	259.72	
32 93 33 00-0146	EA	8' To 10' Cotinus coggygria - Smoke Tree.....	391.72	
32 93 33 00-0147	EA	5 Gallon Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	45.24	
32 93 33 00-0148	EA	18" B&B Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	45.24	
32 93 33 00-0149	EA	24" B&B Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	47.05	
32 93 33 00-0150	EA	12" To 15" Spread Cotoneaster adpressus - Creeping Cotoneaster.....	43.35	
32 93 33 00-0151	EA	3 Gallon Cotoneaster apiculata & cvs - Cranberry Cotoneaster.....	47.05	
32 93 33 00-0152	EA	18" B&B Cotoneaster apiculata & cvs - Cranberry Cotoneaster.....	45.24	
32 93 33 00-0153	EA	24" B&B Cotoneaster apiculata & cvs - Cranberry Cotoneaster.....	47.05	
32 93 33 00-0154	EA	1 Gallon Cotoneaster divaricatus - Spreading Cotoneaster.....	18.66	
32 93 33 00-0155	EA	2' To 3' Cotoneaster divaricatus - Spreading Cotoneaster.....	57.74	
32 93 33 00-0156	EA	3' To 4' Cotoneaster divaricatus - Spreading Cotoneaster.....	77.96	
32 93 33 00-0157	EA	4' To 5' Cotoneaster divaricatus - Spreading Cotoneaster.....	132.00	
32 93 33 00-0158	EA	1 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster.....	5.14	
32 93 33 00-0159	EA	5 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster.....	12.72	
32 93 33 00-0160	EA	1 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster.....	18.66	
32 93 33 00-0161	EA	2 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster.....	36.74	
32 93 33 00-0162	EA	1 Gallon Cotoneaster lacteus - Red Clusterberry.....	5.14	
32 93 33 00-0163	EA	5 Gallon Cotoneaster lacteus - Red Clusterberry.....	12.72	
32 93 33 00-0164	EA	15 Gallon Cotoneaster lacteus - Red Clusterberry.....	50.48	
32 93 33 00-0165	EA	1 Gallon Dendromecon harfordii - Island Bush Poppy.....	11.84	
32 93 33 00-0166	EA	5 Gallon Dendromecon harfordii - Island Bush Poppy.....	29.59	
32 93 33 00-0167	EA	18" B&B Deutzia gracilis - Slender Deutzia.....	46.15	
32 93 33 00-0168	EA	24" B&B Deutzia gracilis - Slender Deutzia.....	50.67	
32 93 33 00-0169	EA	30" B&B Deutzia gracilis - Slender Deutzia.....	65.15	
32 93 33 00-0170	EA	36" B&B Deutzia gracilis - Slender Deutzia.....	76.00	
32 93 33 00-0171	EA	42" B&B Deutzia gracilis - Slender Deutzia.....	86.86	
32 93 33 00-0172	EA	24" B&B Diervilla sessilifolia - Southern Bush Honeysuckle.....	72.38	
32 93 33 00-0173	EA	30" B&B Diervilla sessilifolia - Southern Bush Honeysuckle.....	86.86	
32 93 33 00-0174	EA	36" B&B Diervilla sessilifolia - Southern Bush Honeysuckle.....	101.34	
32 93 33 00-0175	EA	2 Gallon Diervilla splendens - Splendens Bush Honeysuckle.....	27.14	
32 93 33 00-0176	EA	36" B&B Diervilla splendens - Splendens Bush Honeysuckle.....	65.15	
32 93 33 00-0177	EA	48" B&B Diervilla splendens - Splendens Bush Honeysuckle.....	86.86	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0178	EA	5	Gallon Elaeagnus angustifolia - Russian Olive	12.72	
32 93 33 00-0179	EA	1	Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	5.14	
32 93 33 00-0180	EA	5	Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	12.72	
32 93 33 00-0181	EA	15	Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	50.48	
32 93 33 00-0182	EA	1	Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	5.14	
32 93 33 00-0183	EA	5	Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	12.72	
32 93 33 00-0184	EA	15	Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	50.48	
32 93 33 00-0185	EA	3'	To 4' Elaeagnus umbellata - Autumn Olive	54.04	
32 93 33 00-0186	EA	4'	To 5' Elaeagnus umbellata - Autumn Olive	74.26	
32 93 33 00-0187	EA	5'	To 6' Elaeagnus umbellata - Autumn Olive	88.84	
32 93 33 00-0188	EA	3'	To 4' Elaeagnus angustifolia - Russian Olive	86.51	
32 93 33 00-0189	EA	1	Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	5.14	
32 93 33 00-0190	EA	5	Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	12.72	
32 93 33 00-0191	EA	15	Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	50.48	
32 93 33 00-0192	EA	1	Gallon Euonymus - Gold Spot	15.55	
32 93 33 00-0193	EA	2	Gallon Euonymus - Gold Spot	32.66	
32 93 33 00-0194	EA	5	Gallon Euonymus - Gold Spot	44.91	
32 93 33 00-0195	EA	1	Gallon Euonymus alatus - Winged Euonymus	13.28	
32 93 33 00-0196	EA	3	Gallon Euonymus alatus - Winged Euonymus	38.29	
32 93 33 00-0197	EA	24"	B&B Euonymus alatus - Winged Euonymus	51.61	
32 93 33 00-0198	EA	30"	B&B Euonymus alatus - Winged Euonymus	64.51	
32 93 33 00-0199	EA	36"	B&B Euonymus alatus - Winged Euonymus	88.65	
32 93 33 00-0200	EA	42"	B&B Euonymus alatus - Winged Euonymus	109.46	
32 93 33 00-0201	EA	48"	B&B Euonymus alatus - Winged Euonymus	129.03	
32 93 33 00-0202	EA	54"	B&B Euonymus alatus - Winged Euonymus	166.48	
32 93 33 00-0203	EA	5	Gallon Euonymus alatus - Winged Euonymus	47.86	
32 93 33 00-0204	EA	60"	B&B Euonymus alatus - Winged Euonymus	208.10	
32 93 33 00-0205	EA	30"	B&B Euonymus alatus compactus - Compact Winged Euonymus	81.43	
32 93 33 00-0206	EA	36"	B&B Euonymus alatus compactus - Compact Winged Euonymus	96.81	
32 93 33 00-0207	EA	42"	B&B Euonymus alatus compactus - Compact Winged Euonymus	126.67	
32 93 33 00-0208	EA	48"	B&B Euonymus alatus compactus - Compact Winged Euonymus	152.01	
32 93 33 00-0209	EA	60"	B&B Euonymus alatus compactus - Compact Winged Euonymus	188.20	
32 93 33 00-0210	EA	18"	To 24" Euonymus alatus - Winged Burning Bush	57.74	
32 93 33 00-0211	EA	2'	To 2-1/2' Euonymus alatus - Winged Burning Bush	68.04	
32 93 33 00-0212	EA	2-1/2'	To 3' Euonymus alatus - Winged Burning Bush	92.92	
32 93 33 00-0213	EA	3'	To 3-1/2' Euonymus alatus - Winged Burning Bush	111.39	
32 93 33 00-0214	EA	3-1/2'	To 4' Euonymus alatus - Winged Burning Bush	140.16	
32 93 33 00-0215	EA	4'	To 5' Euonymus alatus - Winged Burning Bush	197.90	
32 93 33 00-0216	EA	5'	To 6' Euonymus alatus - Winged Burning Bush	247.47	
32 93 33 00-0217	EA	6'	To 8' Euonymus alatus - Winged Burning Bush	288.69	
32 93 33 00-0218	EA	15"	To 18" Euonymus alatus - Dwarf Winged Burning Bush	57.74	
32 93 33 00-0219	EA	18"	To 24" Euonymus alatus - Dwarf Winged Burning Bush	65.90	
32 93 33 00-0220	EA	2'	To 2-1/2' Euonymus alatus - Dwarf Winged Burning Bush	80.48	
32 93 33 00-0221	EA	2-1/2'	To 3' Euonymus alatus - Dwarf Winged Burning Bush	113.53	
32 93 33 00-0222	EA	3'	To 3-1/2' Euonymus alatus - Dwarf Winged Burning Bush	134.14	
32 93 33 00-0223	EA	3-1/2'	To 4' Euonymus alatus - Dwarf Winged Burning Bush	160.77	
32 93 33 00-0224	EA	4'	To 5' Euonymus alatus - Dwarf Winged Burning Bush	226.87	
32 93 33 00-0225	EA	5'	To 6' Euonymus alatus - Dwarf Winged Burning Bush	268.08	
32 93 33 00-0226	EA	36"	B&B Euonymus atropurpurea - Eastern Wahoo	48.86	
32 93 33 00-0227	EA	1	Gallon Euonymus fortunei - Wintercreeper	18.66	
32 93 33 00-0228	EA	2	Gallon Euonymus fortunei - Wintercreeper	36.74	
32 93 33 00-0229	EA	3	Gallon Euonymus fortunei - Wintercreeper	44.91	
32 93 33 00-0230	EA	5	Gallon Euonymus fortunei - Wintercreeper	53.27	
32 93 33 00-0231	EA	1	Gallon Euonymus japonicus - Evergreen Spindle	5.14	
32 93 33 00-0232	EA	5	Gallon Euonymus japonicus - Evergreen Spindle	12.72	
32 93 33 00-0233	EA	15	Gallon Euonymus japonicus - Evergreen Spindle	50.48	
32 93 33 00-0234	EA	2'	To 3' Forsythia - Korean Forsythia	41.21	
32 93 33 00-0235	EA	3'	To 4' Forsythia - Korean Forsythia	52.10	
32 93 33 00-0236	EA	4'	To 5' Forsythia - Korean Forsythia	64.93	
32 93 33 00-0237	EA	30"	B&B Forsythia cvs - Forsythia cultivars	41.62	
32 93 33 00-0238	EA	36"	B&B Forsythia cvs - Forsythia cultivars	46.15	
32 93 33 00-0239	EA	48"	B&B Forsythia cvs - Forsythia cultivars	49.76	
32 93 33 00-0240	EA	18"	B&B Forsythia viridissima & cvs - Green Forsythia	43.43	
32 93 33 00-0241	EA	24"	B&B Forsythia viridissima & cvs - Green Forsythia	57.91	
32 93 33 00-0242	EA	24"	B&B Forsythia x intermedia & cvs - Border Forsythia	43.43	
32 93 33 00-0243	EA	30"	B&B Forsythia x intermedia & cvs - Border Forsythia	50.67	
32 93 33 00-0244	EA	36"	B&B Forsythia x intermedia & cvs - Border Forsythia	59.72	
32 93 33 00-0245	EA	42"	B&B Forsythia x intermedia & cvs - Border Forsythia	68.76	
32 93 33 00-0246	EA	48"	B&B Forsythia x intermedia & cvs - Border Forsythia	79.62	
32 93 33 00-0247	EA	2	Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	61.53	
32 93 33 00-0248	EA	3	Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	85.96	
32 93 33 00-0249	EA	5	Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	90.48	
32 93 33 00-0250	EA	15"	B&B Fothergilla gardenii & cvs - Dwarf Fothergilla	94.10	
32 93 33 00-0251	EA	18"	B&B Fothergilla gardenii & cvs - Dwarf Fothergilla	101.34	
32 93 33 00-0252	EA	24"	B&B Fothergilla gardenii & cvs - Dwarf Fothergilla	123.05	
32 93 33 00-0253	EA	24"	B&B Fothergilla major - Large Fothergilla	159.25	
32 93 33 00-0254	EA	30"	B&B Fothergilla major - Large Fothergilla	180.96	
32 93 33 00-0255	EA	1	Gallon Gardenia jasminoides - Cape Jasmine	13.41	
32 93 33 00-0256	EA	3	Gallon Gardenia jasminoides - Cape Jasmine	35.19	
32 93 33 00-0257	EA	5	Gallon Gardenia jasminoides - Cape Jasmine	44.91	
32 93 33 00-0258	EA	1	Gallon Grevillea 'Noellii' - Noel's Grevillea	5.14	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0259	EA	5 Gallon Grevillea 'Noellii' - Noel's Grevillea	12.72	
32 93 33 00-0260	EA	15 Gallon Grevillea 'Noellii' - Noel's Grevillea	50.48	
32 93 33 00-0261	EA	36" B&B Hamamelis vernalis & cvs - Vernal Witchhazel	126.67	
32 93 33 00-0262	EA	48" B&B Hamamelis vernalis & cvs - Vernal Witchhazel	206.30	
32 93 33 00-0263	EA	60" B&B Hamamelis vernalis & cvs - Vernal Witchhazel	260.58	
32 93 33 00-0264	EA	72" B&B Hamamelis vernalis & cvs - Vernal Witchhazel	398.11	
32 93 33 00-0265	EA	84" B&B Hamamelis vernalis & cvs - Vernal Witchhazel	452.40	
32 93 33 00-0266	EA	1 Gallon Hedychiium gartdnerum - Variegated Ginger	7.70	
32 93 33 00-0267	EA	3 Gallon Hedychiium gartdnerum - Variegated Ginger	27.05	
32 93 33 00-0268	EA	5 Gallon Hedychiium gartdnerum - Variegated Ginger	52.03	
32 93 33 00-0269	EA	1 Gallon Hibiscus rosa-sinensis - Hibiscus	19.73	
32 93 33 00-0270	EA	3 Gallon Hibiscus rosa-sinensis - Hibiscus	33.30	
32 93 33 00-0271	EA	5 Gallon Hibiscus rosa-sinensis - Hibiscus	50.36	
32 93 33 00-0272	EA	5 Gallon Hibiscus syriacus - Rose Of Sharon	52.10	
32 93 33 00-0273	EA	2' To 3' Hibiscus syriacus - Rose Of Sharon	44.32	
32 93 33 00-0274	EA	3' To 4' Hibiscus syriacus - Rose Of Sharon	59.88	
32 93 33 00-0275	EA	4' To 5' Hibiscus syriacus - Rose Of Sharon	86.51	
32 93 33 00-0276	EA	5' To 6' Hibiscus syriacus - Rose Of Sharon	119.56	
32 93 33 00-0277	EA	2 Gallon Hydrangea - Blue Hydrangea	36.74	
32 93 33 00-0278	EA	5 Gallon Hydrangea - Blue Hydrangea	51.71	
32 93 33 00-0279	EA	2' To 3' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	57.74	
32 93 33 00-0280	EA	3' To 4' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	65.90	
32 93 33 00-0281	EA	2 Gallon Hydrangea quercifolia - Oakleaf Hydrangea	36.74	
32 93 33 00-0282	EA	5 Gallon Hydrangea arborescens & cvs - Smooth Hydrangea	63.34	
32 93 33 00-0283	EA	30" B&B Hydrangea arborescens & cvs - Smooth Hydrangea	68.76	
32 93 33 00-0284	EA	36" B&B Hydrangea arborescens & cvs - Smooth Hydrangea	79.62	
32 93 33 00-0285	EA	4 Gallon Hydrangea macrophylla & cvs - Bigleaf Hydrangea	83.24	
32 93 33 00-0286	EA	18" B&B Hydrangea macrophylla & cvs - Bigleaf Hydrangea	65.15	
32 93 33 00-0287	EA	24" B&B Hydrangea macrophylla & cvs - Bigleaf Hydrangea	86.86	
32 93 33 00-0288	EA	3 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	38.00	
32 93 33 00-0289	EA	5 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	45.24	
32 93 33 00-0290	EA	18" B&B Hydrangea paniculata & cvs - Panicle Hydrangea	38.91	
32 93 33 00-0291	EA	24" B&B Hydrangea paniculata & cvs - Panicle Hydrangea	41.62	
32 93 33 00-0292	EA	30" B&B Hydrangea paniculata & cvs - Panicle Hydrangea	47.05	
32 93 33 00-0293	EA	36" B&B Hydrangea paniculata & cvs - Panicle Hydrangea	54.29	
32 93 33 00-0294	EA	48" B&B Hydrangea paniculata & cvs - Panicle Hydrangea	72.38	
32 93 33 00-0295	EA	18" B&B Hydrangea quercifolia & cvs - Oakleaf Hydrangea	52.48	
32 93 33 00-0296	EA	24" B&B Hydrangea quercifolia & cvs - Oakleaf Hydrangea	59.72	
32 93 33 00-0297	EA	30" B&B Hydrangea quercifolia & cvs - Oakleaf Hydrangea	70.57	
32 93 33 00-0298	EA	2 Gallon Hypericum kalmianun - St. John's Wort	36.74	
32 93 33 00-0299	EA	3 Gallon Hypericum kalmianun - Kalm St. John's Wort	43.43	
32 93 33 00-0300	EA	24" B&B Hypericum kalmianun - Kalm St. John's Wort	47.05	
32 93 33 00-0301	EA	1 Gallon Ilex "Carissa" - Holly	18.66	
32 93 33 00-0302	EA	2 Gallon Ilex "Carissa" - Holly	36.74	
32 93 33 00-0303	EA	5 Gallon Ilex "Carissa" - Holly	51.71	
32 93 33 00-0304	EA	18" To 24" Ilex - Gulfside Sweet Holly	49.57	
32 93 33 00-0305	EA	2' To 2-1/2' Ilex - Gulfside Sweet Holly	62.79	
32 93 33 00-0306	EA	2-1/2' To 3' Ilex - Gulfside Sweet Holly	81.45	
32 93 33 00-0307	EA	3' To 3-1/2' Ilex - Gulfside Sweet Holly	98.95	
32 93 33 00-0308	EA	3 Gallon Ilex cornuta - Dwarf Horned Holly	37.03	
32 93 33 00-0309	EA	1 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	18.66	
32 93 33 00-0310	EA	2 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	36.74	
32 93 33 00-0311	EA	5 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	53.27	
32 93 33 00-0312	EA	1 Gallon Ilex crenata - Hellers Japanese Holly	18.66	
32 93 33 00-0313	EA	2 Gallon Ilex crenata - Hellers Japanese Holly	40.83	
32 93 33 00-0314	EA	3 Gallon Ilex crenata - Hellers Japanese Holly	53.27	
32 93 33 00-0315	EA	2 Gallon Ilex crenata - Hetzi Japanese Holly	40.82	
32 93 33 00-0316	EA	3 Gallon Ilex crenata - Hetzi Japanese Holly	49.18	
32 93 33 00-0317	EA	2' To 3' Ilex crenata - Hetzi Japanese Holly	98.95	
32 93 33 00-0318	EA	3' To 4' Ilex crenata - Hetzi Japanese Holly	132.00	
32 93 33 00-0319	EA	2' To 3' Ilex opaca - American Holly	132.00	
32 93 33 00-0320	EA	3' To 4' Ilex opaca - American Holly	218.51	
32 93 33 00-0321	EA	4' To 5' Ilex opaca - American Holly	280.33	
32 93 33 00-0322	EA	5' To 6' Ilex opaca - American Holly	338.06	
32 93 33 00-0323	EA	6' To 7' Ilex opaca - American Holly	474.15	
32 93 33 00-0324	EA	7' To 8' Ilex opaca - American Holly	659.80	
32 93 33 00-0325	EA	8' To 10' Ilex opaca - American Holly	948.29	
32 93 33 00-0326	EA	10' To 12' Ilex opaca - American Holly	1,443.24	
32 93 33 00-0327	EA	12' To 14' Ilex opaca - American Holly	1,752.34	
32 93 33 00-0328	EA	14' To 16' Ilex opaca - American Holly	2,164.67	
32 93 33 00-0329	EA	2' To 3' Ilex verticillata - Winterberry (Female)	132.00	
32 93 33 00-0330	EA	3' To 4' Ilex verticillata - Winterberry (Female)	173.21	
32 93 33 00-0331	EA	2' To 3' Ilex verticillata - Winterberry (Male)	107.12	
32 93 33 00-0332	EA	3' To 4' Ilex verticillata - Winterberry (Male)	148.52	
32 93 33 00-0333	EA	4' To 5' Ilex verticillata - Winterberry (Male)	173.21	
32 93 33 00-0334	EA	1 Gallon Ilex vomitoria - Yaupon Holly	17.50	
32 93 33 00-0335	EA	3 Gallon Ilex vomitoria - Yaupon Holly	35.19	
32 93 33 00-0336	EA	10 Gallon Ilex vomitoria - Yaupon Holly	123.64	
32 93 33 00-0337	EA	18" B&B Ilex glabra compacta & cvs - Compact Inkberry Holly	56.10	
32 93 33 00-0338	EA	24" B&B Ilex glabra compacta & cvs - Compact Inkberry Holly	63.34	
32 93 33 00-0339	EA	3 Gallon Ilex meserveae & cvs - Blue Holly	72.38	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0340	EA	18"	B&B Ilex meserveae & cvs - Blue Holly	66.96	
32 93 33 00-0341	EA	24"	B&B Ilex meserveae & cvs - Blue Holly	81.43	
32 93 33 00-0342	EA	5	Gallon Ilex verticillata & cvs - Common Winterberry	59.72	
32 93 33 00-0343	EA	24"	B&B Ilex verticillata & cvs - Common Winterberry	59.72	
32 93 33 00-0344	EA	30"	B&B Ilex verticillata & cvs - Common Winterberry	63.34	
32 93 33 00-0345	EA	36"	B&B Ilex verticillata & cvs - Common Winterberry	76.00	
32 93 33 00-0346	EA	42"	B&B Ilex verticillata & cvs - Common Winterberry	85.05	
32 93 33 00-0347	EA	48"	B&B Ilex verticillata & cvs - Common Winterberry	90.48	
32 93 33 00-0348	EA	60"	B&B Ilex verticillata & cvs - Common Winterberry	115.82	
32 93 33 00-0349	EA	4'	To 5' Ilex x attenuata "Foster" - Holly	214.43	
32 93 33 00-0350	EA	5'	To 6' Ilex x attenuata "Foster" - Holly	284.41	
32 93 33 00-0351	EA	6'	To 7' Ilex x attenuata "Foster" - Holly	254.47	
32 93 33 00-0352	EA	7'	To 8' Ilex x attenuata "Foster" - Holly	494.75	
32 93 33 00-0353	EA	1	Gallon Jasimnum - Jasmine	4.79	
32 93 33 00-0354	EA	3	Gallon Jasimnum - Jasmine	18.73	
32 93 33 00-0355	EA	3	Gallon Jasimnum - Orange Jasmine	14.57	
32 93 33 00-0356	EA	4'	5' Jasimnum - Orange Jasmine	166.48	
32 93 33 00-0357	EA	6'	7' Jasimnum - Orange Jasmine	332.97	
32 93 33 00-0358	EA	8'	10' Jasimnum - Orange Jasmine	449.51	
32 93 33 00-0359	EA	3	Gallon Juniperus chinensis cvs - Chinese Juniper	63.34	
32 93 33 00-0360	EA	5	Gallon Juniperus chinensis cvs - Chinese Juniper	70.57	
32 93 33 00-0361	EA	18"	B&B Juniperus chinensis cvs - Chinese Juniper	94.10	
32 93 33 00-0362	EA	24"	B&B Juniperus chinensis cvs - Chinese Juniper	123.05	
32 93 33 00-0363	EA	30"	B&B Juniperus chinensis cvs - Chinese Juniper	144.77	
32 93 33 00-0364	EA	36"	B&B Juniperus chinensis cvs - Chinese Juniper	195.44	
32 93 33 00-0365	EA	48"	B&B Juniperus chinensis cvs - Chinese Juniper	267.82	
32 93 33 00-0366	EA	1	Gallon Juniperus horizontalis cvs - Creeping Juniper	30.18	
32 93 33 00-0367	EA	3	Gallon Juniperus horizontalis cvs - Creeping Juniper	63.34	
32 93 33 00-0368	EA	5	Gallon Juniperus horizontalis cvs - Creeping Juniper	70.57	
32 93 33 00-0369	EA	15"	B&B Juniperus horizontalis cvs - Creeping Juniper	76.00	
32 93 33 00-0370	EA	18"	B&B Juniperus horizontalis cvs - Creeping Juniper	83.24	
32 93 33 00-0371	EA	24"	B&B Juniperus horizontalis cvs - Creeping Juniper	101.34	
32 93 33 00-0372	EA	30"	B&B Juniperus horizontalis cvs - Creeping Juniper	123.05	
32 93 33 00-0373	EA	3	Gallon Juniperus procumbens cvs - Japanese Garden Juniper	48.86	
32 93 33 00-0374	EA	18"	B&B Juniperus procumbens cvs - Japanese Garden Juniper	57.91	
32 93 33 00-0375	EA	24"	B&B Juniperus procumbens cvs - Japanese Garden Juniper	79.62	
32 93 33 00-0376	EA	30"	B&B Juniperus procumbens cvs - Japanese Garden Juniper	101.34	
32 93 33 00-0377	EA	36"	B&B Juniperus procumbens cvs - Japanese Garden Juniper	123.05	
32 93 33 00-0378	EA	3	Gallon Juniperus sabina cvs - Savin Juniper	45.24	
32 93 33 00-0379	EA	5	Gallon Juniperus sabina cvs - Savin Juniper	54.29	
32 93 33 00-0380	EA	4	Gallon Juniperus virginiana cvs - Red Cedar Juniper	47.05	
32 93 33 00-0381	EA	36"	B&B Juniperus virginiana cvs - Red Cedar Juniper	90.48	
32 93 33 00-0382	EA	48"	B&B Juniperus virginiana cvs - Red Cedar Juniper	141.15	
32 93 33 00-0383	EA	60"	B&B Juniperus virginiana cvs - Red Cedar Juniper	177.34	
32 93 33 00-0384	EA	15"	To 18" Kalmia latifolia - Mountain Laurel	74.26	
32 93 33 00-0385	EA	18"	To 24" Kalmia latifolia - Mountain Laurel	98.95	
32 93 33 00-0386	EA	2'	To 3' Kalmia latifolia - Mountain Laurel	144.25	
32 93 33 00-0387	EA	4'	To 5' Kalmia latifolia - Mountain Laurel	263.80	
32 93 33 00-0388	EA	5'	To 6' Kalmia latifolia - Mountain Laurel	404.16	
32 93 33 00-0389	EA	6'	To 8' Kalmia latifolia - Mountain Laurel	618.59	
32 93 33 00-0390	EA	1	Gallon Kerria japonica - Kerria	16.52	
32 93 33 00-0391	EA	5	Gallon Kerria japonica - Kerria	51.71	
32 93 33 00-0392	EA	24"	B&B Kolkwitzia amabilis & cvs - Beautybush	52.48	
32 93 33 00-0393	EA	30"	B&B Kolkwitzia amabilis & cvs - Beautybush	59.72	
32 93 33 00-0394	EA	36"	B&B Kolkwitzia amabilis & cvs - Beautybush	65.15	
32 93 33 00-0395	EA	42"	B&B Kolkwitzia amabilis & cvs - Beautybush	76.00	
32 93 33 00-0396	EA	48"	B&B Kolkwitzia amabilis & cvs - Beautybush	86.86	
32 93 33 00-0397	EA	60"	B&B Kolkwitzia amabilis & cvs - Beautybush	108.58	
32 93 33 00-0398	EA	1	Gallon Lagerstroemia indica - Crape Myrtle	12.44	
32 93 33 00-0399	EA	5	Gallon Lagerstroemia indica - Crape Myrtle	44.32	
32 93 33 00-0400	EA	3'	To 4' Lagerstroemia indica - Crape Myrtle	61.82	
32 93 33 00-0401	EA	4'	To 5' Lagerstroemia indica - Crape Myrtle	90.79	
32 93 33 00-0402	EA	5'	To 6' Lagerstroemia indica - Crape Myrtle	144.25	
32 93 33 00-0403	EA	7'	To 8' Lagerstroemia indica - Crape Myrtle	187.29	
32 93 33 00-0404	EA	9'	To 10' Lagerstroemia indica - Crape Myrtle	249.73	
32 93 33 00-0405	EA	11'	To 12' Lagerstroemia indica - Crape Myrtle	520.26	
32 93 33 00-0406	EA	1	Gallon Leucothoe axillaris - Coast Leucothoe	18.66	
32 93 33 00-0407	EA	2	Gallon Leucothoe axillaris - Coast Leucothoe	40.83	
32 93 33 00-0408	EA	3	Gallon Leucothoe axillaris - Coast Leucothoe	49.18	
32 93 33 00-0409	EA	1	Gallon Ligustrum lucidum - Glossy Privet	11.47	
32 93 33 00-0410	EA	5	Gallon Ligustrum lucidum - Glossy Privet	35.19	
32 93 33 00-0411	EA	15	Gallon Ligustrum lucidum - Glossy Privet	164.85	
32 93 33 00-0412	EA	1	Gallon Ligustrum sinense - Variegated Chinese Privet	11.47	
32 93 33 00-0413	EA	2	Gallon Ligustrum sinense - Variegated Chinese Privet	24.69	
32 93 33 00-0414	EA	3	Gallon Ligustrum sinense - Variegated Chinese Privet	32.08	
32 93 33 00-0415	EA	36"	B&B Ligustrum vulgare & cvs - Common Privet	54.29	
32 93 33 00-0416	EA	48"	B&B Ligustrum vulgare & cvs - Common Privet	79.62	
32 93 33 00-0417	EA	60"	B&B Ligustrum vulgare & cvs - Common Privet	101.34	
32 93 33 00-0418	EA	72"	B&B Ligustrum vulgare & cvs - Common Privet	115.82	
32 93 33 00-0419	EA	5	Gallon Lindera benzoin - Spicebush	59.72	
32 93 33 00-0420	EA	36"	B&B Lindera benzoin - Spicebush	50.67	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0421	EA	48" B&B Linder benzoin - Spicebush.....	61.53	
32 93 33 00-0422	EA	2' To 3' Lonicera fragrantissima - Winter Honeysuckle.....	98.95	
32 93 33 00-0423	EA	3' To 4' Lonicera fragrantissima - Winter Honeysuckle.....	119.56	
32 93 33 00-0424	EA	30" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle.....	54.29	
32 93 33 00-0425	EA	36" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle.....	65.15	
32 93 33 00-0426	EA	42" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle.....	72.38	
32 93 33 00-0427	EA	48" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle.....	79.62	
32 93 33 00-0428	EA	1 Gallon Myrica cerifera - Wax Myrtle.....	10.41	
32 93 33 00-0429	EA	4 Gallon Myrica cerifera - Wax Myrtle.....	33.30	
32 93 33 00-0430	EA	7 Gallon Myrica cerifera - Wax Myrtle.....	72.84	
32 93 33 00-0431	EA	10 Gallon Myrica cerifera - Wax Myrtle.....	108.21	
32 93 33 00-0432	EA	15 Gallon Myrica cerifera - Wax Myrtle.....	166.48	
32 93 33 00-0433	EA	45 Gallon Myrica cerifera - Wax Myrtle.....	499.45	
32 93 33 00-0434	EA	1' - 2' Myrica cerifera - Wax Myrtle.....	14.57	
32 93 33 00-0435	EA	3' - 4' Myrica cerifera - Wax Myrtle.....	49.95	
32 93 33 00-0436	EA	5' - 6' Myrica cerifera - Wax Myrtle.....	91.57	
32 93 33 00-0437	EA	7' - 8' Myrica cerifera - Wax Myrtle.....	124.86	
32 93 33 00-0438	EA	9' - 10' Myrica cerifera - Wax Myrtle.....	166.48	
32 93 33 00-0439	EA	11' - 12' Myrica cerifera - Wax Myrtle.....	253.89	
32 93 33 00-0440	EA	3 Gallon Myrica pensylvanica - Northern Bayberry.....	54.29	
32 93 33 00-0441	EA	24" B&B Myrica pensylvanica - Northern Bayberry.....	88.67	
32 93 33 00-0442	EA	30" B&B Myrica pensylvanica - Northern Bayberry.....	130.29	
32 93 33 00-0443	EA	36" B&B Myrica pensylvanica - Northern Bayberry.....	155.63	
32 93 33 00-0444	EA	48" B&B Myrica pensylvanica - Northern Bayberry.....	162.86	
32 93 33 00-0445	EA	1 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum.....	5.14	
32 93 33 00-0446	EA	5 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum.....	12.72	
32 93 33 00-0447	EA	15 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum.....	50.48	
32 93 33 00-0448	EA	1 Gallon Nandina domestica - Heavenly Bamboo.....	18.66	
32 93 33 00-0449	EA	2 Gallon Nandina domestica - Heavenly Bamboo.....	40.83	
32 93 33 00-0450	EA	5 Gallon Nandina domestica - Heavenly Bamboo.....	61.82	
32 93 33 00-0451	EA	15 Gallon Nerium oleander - Oleander.....	55.24	
32 93 33 00-0452	EA	24" Box Nerium oleander - Oleander.....	198.51	
32 93 33 00-0453	EA	1 Gallon Osmanthus fragrans - Fragrant Tea Olive.....	11.47	
32 93 33 00-0454	EA	3 Gallon Osmanthus fragrans - Fragrant Tea Olive.....	31.10	
32 93 33 00-0455	EA	1 Gallon Philadelphus - Evergreen Mockorange.....	15.94	
32 93 33 00-0456	EA	5 Gallon Philadelphus - Evergreen Mockorange.....	51.71	
32 93 33 00-0457	EA	36" B&B Philadelphus x virginialis & cvs - Mockorange.....	54.29	
32 93 33 00-0458	EA	42" B&B Philadelphus x virginialis & cvs - Mockorange.....	63.34	
32 93 33 00-0459	EA	48" B&B Philadelphus x virginialis & cvs - Mockorange.....	72.38	
32 93 33 00-0460	EA	1 Gallon Photinia fraseri - Red-Tipped Photinia.....	5.14	
32 93 33 00-0461	EA	5 Gallon Photinia fraseri - Red-Tipped Photinia.....	12.72	
32 93 33 00-0462	EA	15 Gallon Photinia fraseri - Red-Tipped Photinia.....	50.48	
32 93 33 00-0463	EA	1 Gallon Phormium tenax - New Zealand Flax.....	5.42	
32 93 33 00-0464	EA	5 Gallon Phormium tenax - New Zealand Flax.....	12.99	
32 93 33 00-0465	EA	15 Gallon Phormium tenax - New Zealand Flax.....	55.24	
32 93 33 00-0466	EA	24" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	54.29	
32 93 33 00-0467	EA	30" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	63.34	
32 93 33 00-0468	EA	36" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	72.38	
32 93 33 00-0469	EA	42" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	90.48	
32 93 33 00-0470	EA	48" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	108.58	
32 93 33 00-0471	EA	12" To 15" Spread Pieris - Mountain Andromeda.....	49.96	
32 93 33 00-0472	EA	15" To 18" Spread Pieris - Mountain Andromeda.....	107.12	
32 93 33 00-0473	EA	12" To 15" Pieris japonica - Japanese Andromeda.....	64.93	
32 93 33 00-0474	EA	15" To 18" Pieris japonica - Japanese Andromeda.....	74.26	
32 93 33 00-0475	EA	18" To 24" Pieris japonica - Japanese Andromeda.....	92.92	
32 93 33 00-0476	EA	2' To 2-1/2' Pieris japonica - Japanese Andromeda.....	132.00	
32 93 33 00-0477	EA	2-1/2' To 3' Pieris japonica - Japanese Andromeda.....	156.69	
32 93 33 00-0478	EA	24" B&B Pinus mugo & cvs - Mugo Pine.....	90.48	
32 93 33 00-0479	EA	30" B&B Pinus mugo & cvs - Mugo Pine.....	115.82	
32 93 33 00-0480	EA	36" B&B Pinus mugo & cvs - Mugo Pine.....	139.34	
32 93 33 00-0481	EA	48" B&B Pinus mugo & cvs - Mugo Pine.....	179.15	
32 93 33 00-0482	EA	60" B&B Pinus mugo & cvs - Mugo Pine.....	215.34	
32 93 33 00-0483	EA	72" B&B Pinus mugo & cvs - Mugo Pine.....	314.87	
32 93 33 00-0484	EA	30" B&B Pinus mugo compacta - Dwarf Mugo Pine.....	195.44	
32 93 33 00-0485	EA	36" B&B Pinus mugo compacta - Dwarf Mugo Pine.....	235.25	
32 93 33 00-0486	EA	48" B&B Pinus mugo compacta - Dwarf Mugo Pine.....	313.06	
32 93 33 00-0487	EA	1 Gallon Pittosporum - Pittosporum.....	6.87	
32 93 33 00-0488	EA	3 Gallon Pittosporum - Pittosporum.....	17.69	
32 93 33 00-0489	EA	1 Gallon Pittosporum - Varigated Pittosporum.....	6.87	
32 93 33 00-0490	EA	3 Gallon Pittosporum - Varigated Pittosporum.....	17.69	
32 93 33 00-0491	EA	5 Gallon Pittosporum - Varigated Pittosporum.....	31.01	
32 93 33 00-0492	EA	1 Gallon Pittosporum eugenioides - Lemonwood.....	5.91	
32 93 33 00-0493	EA	5 Gallon Pittosporum eugenioides - Lemonwood.....	13.99	
32 93 33 00-0494	EA	1 Gallon Pittosporum tobira - Japanese Pittosporum.....	5.14	
32 93 33 00-0495	EA	5 Gallon Pittosporum tobira - Japanese Pittosporum.....	12.72	
32 93 33 00-0496	EA	15 Gallon Pittosporum tobira - Japanese Pittosporum.....	50.48	
32 93 33 00-0497	EA	2 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil.....	30.76	
32 93 33 00-0498	EA	5 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil.....	43.43	
32 93 33 00-0499	EA	18" B&B Potentilla fruticosa & cvs - Bush Cinquefoil.....	32.57	
32 93 33 00-0500	EA	24" B&B Potentilla fruticosa & cvs - Bush Cinquefoil.....	36.19	
32 93 33 00-0501	EA	30" B&B Potentilla fruticosa & cvs - Bush Cinquefoil.....	52.48	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0502	EA		36" B&B Potentilla fruticosa & cvs - Bush Cinquefoil.....	60.62	
32 93 33 00-0503	EA		1 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	12.44	
32 93 33 00-0504	EA		3 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	31.10	
32 93 33 00-0505	EA		15 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	185.46	
32 93 33 00-0506	EA		15" To 18" Prunus laurocerasus - Cherry Laurel.....	47.43	
32 93 33 00-0507	EA		18" To 24" Prunus laurocerasus - Cherry Laurel.....	58.71	
32 93 33 00-0508	EA		24" To 30" Prunus laurocerasus - Cherry Laurel.....	76.40	
32 93 33 00-0509	EA		15" To 18" Prunus triloba - Double White Flowering Almond.....	42.38	
32 93 33 00-0510	EA		18" To 24" Prunus triloba - Double White Flowering Almond.....	54.24	
32 93 33 00-0511	EA		3' To 4' Prunus triloba - Double White Flowering Almond.....	86.51	
32 93 33 00-0512	EA		4' To 6' Prunus triloba - Double White Flowering Almond.....	173.21	
32 93 33 00-0513	EA		5 Gallon Prunus triloba - Pink Flowering Almond.....	52.10	
32 93 33 00-0514	EA		18" To 24" Prunus triloba - Pink Flowering Almond.....	58.52	
32 93 33 00-0515	EA		2' To 3' Prunus triloba - Pink Flowering Almond.....	68.04	
32 93 33 00-0516	EA		2' To 3' Prunus virginiana - Brilliant Chokeberry.....	46.27	
32 93 33 00-0517	EA		3' To 4' Prunus virginiana - Brilliant Chokeberry.....	56.77	
32 93 33 00-0518	EA		4' To 5' Prunus virginiana - Brilliant Chokeberry.....	68.04	
32 93 33 00-0519	EA		5' To 6' Prunus virginiana - Brilliant Chokeberry.....	77.96	
32 93 33 00-0520	EA		1 Gallon Punica granatum - Dwarf Pomegranate.....	12.25	
32 93 33 00-0521	EA		3 Gallon Punica granatum - Dwarf Pomegranate.....	36.16	
32 93 33 00-0522	EA		7 Gallon Punica granatum - Dwarf Pomegranate.....	74.26	
32 93 33 00-0523	EA		1 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha.....	15.55	
32 93 33 00-0524	EA		5 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha.....	51.71	
32 93 33 00-0525	EA		5 Gallon Espalier Pyracantha koidzumi "Santa Cruz" - Pyracantha.....	107.12	
32 93 33 00-0526	EA		1 Gallon Ralphialepis indica - Indian Hawthorne.....	12.44	
32 93 33 00-0527	EA		2 Gallon Ralphialepis indica - Indian Hawthorne.....	23.72	
32 93 33 00-0528	EA		5 Gallon Ralphialepis indica - Indian Hawthorne.....	42.19	
32 93 33 00-0529	EA		1 Gallon Rhamnus californica - Coffeeberry.....	18.91	
32 93 33 00-0530	EA		5 Gallon Rhamnus californica - Coffeeberry.....	54.08	
32 93 33 00-0531	EA		15 Gallon Rhamnus californica - Coffeeberry.....	162.29	
32 93 33 00-0532	EA		4' To 5' Rhamnus frangula "Columnaris" - Tallhedge.....	94.87	
32 93 33 00-0533	EA		5' To 6' Rhamnus frangula "Columnaris" - Tallhedge.....	130.05	
32 93 33 00-0534	EA		6' To 8' Rhamnus frangula "Columnaris" - Tallhedge.....	169.13	
32 93 33 00-0535	EA		10' To 12' Rhamnus frangula "Columnaris" - Tallhedge.....	309.29	
32 93 33 00-0536	EA		1 Gallon Ralphialepis indica 'Ballerina' - Ballerina Indian Hawthorn.....	5.47	
32 93 33 00-0537	EA		5 Gallon Ralphialepis indica 'Ballerina' - Ballerina Indian Hawthorn.....	12.99	
32 93 33 00-0538	EA		15 Gallon Ralphialepis indica 'Ballerina' - Ballerina Indian Hawthorn.....	55.24	
32 93 33 00-0539	EA		1 Gallon Rhododendron - Azalea Evergreen Hybrids.....	20.22	
32 93 33 00-0540	EA		2 Gallon Rhododendron - Azalea Evergreen Hybrids.....	40.82	
32 93 33 00-0541	EA		3 Gallon Rhododendron - Azalea Evergreen Hybrids.....	53.27	
32 93 33 00-0542	EA		5 Gallon Rhododendron - Azalea Evergreen Hybrids.....	61.82	
32 93 33 00-0543	EA		15" To 18" Rhododendron - Azalea Evergreen Hybrids.....	72.32	
32 93 33 00-0544	EA		18" To 24" Rhododendron - Azalea Evergreen Hybrids.....	90.79	
32 93 33 00-0545	EA		2' To 2-1/2' Rhododendron - Azalea Evergreen Hybrids.....	132.00	
32 93 33 00-0546	EA		2-1/2' To 3' Rhododendron - Azalea Evergreen Hybrids.....	185.46	
32 93 33 00-0547	EA		1 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	22.74	
32 93 33 00-0548	EA		2 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	40.82	
32 93 33 00-0549	EA		15' To 18' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	70.18	
32 93 33 00-0550	EA		18" To 24" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	90.79	
32 93 33 00-0551	EA		2' To 3' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	132.00	
32 93 33 00-0552	EA		3' To 4' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	193.82	
32 93 33 00-0553	EA		4' To 5' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	259.72	
32 93 33 00-0554	EA		5 Gallon Rhododendron - Boxleaf Azara.....	51.71	
32 93 33 00-0555	EA		15 Gallon Rhododendron - Boxleaf Azara.....	185.46	
32 93 33 00-0556	EA		15" To 18" Rhododendron - Carolina Rhododendron.....	58.52	
32 93 33 00-0557	EA		18" To 24" Rhododendron - Carolina Rhododendron.....	103.03	
32 93 33 00-0558	EA		24" To 30" Rhododendron - Carolina Rhododendron.....	152.61	
32 93 33 00-0559	EA		2' To 3' Rhododendron - Five-leafed Azalea.....	69.40	
32 93 33 00-0560	EA		3' To 4' Rhododendron - Five-leafed Azalea.....	90.79	
32 93 33 00-0561	EA		4' To 5' Rhododendron - Five-leafed Azalea.....	119.56	
32 93 33 00-0562	EA		15" To 18" Rhododendron - Ghent Azalea.....	69.40	
32 93 33 00-0563	EA		18" To 24" Rhododendron - Ghent Azalea.....	86.51	
32 93 33 00-0564	EA		2' To 3' Rhododendron - Ghent Azalea.....	140.16	
32 93 33 00-0565	EA		3' To 4' Rhododendron - Ghent Azalea.....	193.82	
32 93 33 00-0566	EA		4' To 5' Rhododendron - Ghent Azalea.....	259.72	
32 93 33 00-0567	EA		5' To 6' Rhododendron - Ghent Azalea.....	346.42	
32 93 33 00-0568	EA		1 Gallon Rhododendron - Hybrid Rhododendron.....	22.74	
32 93 33 00-0569	EA		2 Gallon Rhododendron - Hybrid Rhododendron.....	49.18	
32 93 33 00-0570	EA		3 Gallon Rhododendron - Hybrid Rhododendron.....	69.79	
32 93 33 00-0571	EA		5 Gallon Rhododendron - Hybrid Rhododendron.....	77.96	
32 93 33 00-0572	EA		15" To 18" Rhododendron - Hybrid Rhododendron.....	65.90	
32 93 33 00-0573	EA		18" To 24" Rhododendron - Hybrid Rhododendron.....	90.79	
32 93 33 00-0574	EA		24" To 30" Rhododendron - Hybrid Rhododendron.....	123.64	
32 93 33 00-0575	EA		30" To 36" Rhododendron - Hybrid Rhododendron.....	144.25	
32 93 33 00-0576	EA		36" To 42" Rhododendron - Hybrid Rhododendron.....	206.26	
32 93 33 00-0577	EA		42" To 48" Rhododendron - Hybrid Rhododendron.....	255.64	
32 93 33 00-0578	EA		15" To 18" Rhododendron - Pjm Rhododendron.....	74.26	
32 93 33 00-0579	EA		18" To 24" Rhododendron - Pjm Rhododendron.....	90.79	
32 93 33 00-0580	EA		2' To 2-1/2' Rhododendron - Pjm Rhododendron.....	132.00	
32 93 33 00-0581	EA		2-1/2' To 3' Rhododendron - Pjm Rhododendron.....	169.13	
32 93 33 00-0582	EA		3' To 3-1/2' Rhododendron - Pjm Rhododendron.....	206.26	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0583	EA	12" To 15" Rhododendron - Torch Azalea	57.74
32 93 33 00-0584	EA	15" To 18" Rhododendron - Torch Azalea	69.40
32 93 33 00-0585	EA	18" To 24" Rhododendron - Torch Azalea	86.51
32 93 33 00-0586	EA	2' To 3' Rhododendron - Torch Azalea	144.25
32 93 33 00-0587	EA	3 Gallon Rhododendron cvs - Lepidote Rhododendron	65.15
32 93 33 00-0588	EA	5 Gallon Rhododendron cvs - Lepidote Rhododendron	79.62
32 93 33 00-0589	EA	18" B&B Rhododendron cvs - Lepidote Rhododendron	97.72
32 93 33 00-0590	EA	24" B&B Rhododendron cvs - Lepidote Rhododendron	123.05
32 93 33 00-0591	EA	30" B&B Rhododendron cvs - Lepidote Rhododendron	144.77
32 93 33 00-0592	EA	36" B&B Rhododendron cvs - Lepidote Rhododendron	173.72
32 93 33 00-0593	EA	1 Gallon Rhus glabra - Dwarf Smooth Sumac	18.66
32 93 33 00-0594	EA	5 Gallon Rhus glabra - Dwarf Smooth Sumac	51.71
32 93 33 00-0595	EA	2 Gallon Rhus aromatica & cvs - Fragrant Sumac	43.43
32 93 33 00-0596	EA	5 Gallon Rhus aromatica & cvs - Fragrant Sumac	59.72
32 93 33 00-0597	EA	18" B&B Rhus aromatica & cvs - Fragrant Sumac	68.76
32 93 33 00-0598	EA	24" B&B Rhus aromatica & cvs - Fragrant Sumac	90.48
32 93 33 00-0599	EA	36" B&B Rhus glabra - Smooth Sumac	54.29
32 93 33 00-0600	EA	48" B&B Rhus typhina & cvs - Staghorn Sumac	90.48
32 93 33 00-0601	EA	72" B&B Rhus typhina & cvs - Staghorn Sumac	144.77
32 93 33 00-0602	EA	15" B&B Ribes alpinum & cvs - Alpine Currant	48.86
32 93 33 00-0603	EA	18" B&B Ribes alpinum & cvs - Alpine Currant	56.10
32 93 33 00-0604	EA	24" B&B Ribes alpinum & cvs - Alpine Currant	81.43
32 93 33 00-0605	EA	30" B&B Ribes alpinum & cvs - Alpine Currant	108.58
32 93 33 00-0606	EA	1 Gallon Rosa hybrids & cvs - Shrub Rose	29.86
32 93 33 00-0607	EA	2 Gallon Rosa hybrids & cvs - Shrub Rose	36.19
32 93 33 00-0608	EA	3 Gallon Rosa hybrids & cvs - Shrub Rose	45.24
32 93 33 00-0609	EA	2 Gallon Rosa rugosa & cvs - Rugosa Rose	32.57
32 93 33 00-0610	EA	3 Gallon Rosa rugosa & cvs - Rugosa Rose	41.62
32 93 33 00-0611	EA	5 Gallon Sambucus canadensis - American Elder	59.72
32 93 33 00-0612	EA	1 Gallon Santolina chamaecyparissus - Lavender Cotton	5.14
32 93 33 00-0613	EA	5 Gallon Santolina chamaecyparissus - Lavender Cotton	12.72
32 93 33 00-0614	EA	1 Gallon Santolina rosmarinifolia - Green Lavender Cotton	5.14
32 93 33 00-0615	EA	5 Gallon Santolina rosmarinifolia - Green Lavender Cotton	12.72
32 93 33 00-0616	EA	2 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca	26.83
32 93 33 00-0617	EA	3 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca	39.27
32 93 33 00-0618	EA	1 Gallon Sarcococca humilis - Fragrant Sarcococca	14.58
32 93 33 00-0619	EA	5 Gallon Sarcococca humilis - Fragrant Sarcococca	38.10
32 93 33 00-0620	EA	5 Gallon Senna artemisioides - Feathery Cassia	14.20
32 93 33 00-0621	EA	15 Gallon Senna artemisioides - Feathery Cassia	56.52
32 93 33 00-0622	EA	24" Box Senna artemisioides - Feathery Cassia	177.56
32 93 33 00-0623	EA	1 Gallon Skimmia japonica - Japanese Skimmia	18.66
32 93 33 00-0624	EA	2 Gallon Skimmia japonica - Japanese Skimmia	37.13
32 93 33 00-0625	EA	5 Gallon Skimmia japonica - Japanese Skimmia	59.88
32 93 33 00-0626	EA	1 Gallon Sollya fusiformis - Bluebell Creeper	5.14
32 93 33 00-0627	EA	5 Gallon Sollya fusiformis - Bluebell Creeper	12.72
32 93 33 00-0628	EA	3' To 4' Spiraea - Garland Spirea	86.51
32 93 33 00-0629	EA	4' To 5' Spiraea - Garland Spirea	132.00
32 93 33 00-0630	EA	5 Gallon Spiraea - Snowmound Spirea	51.71
32 93 33 00-0631	EA	18" To 24" Spiraea - Snowmound Spirea	42.38
32 93 33 00-0632	EA	2' To 3' Spiraea - Snowmound Spirea	59.88
32 93 33 00-0633	EA	3' To 4' Spiraea - Snowmound Spirea	69.40
32 93 33 00-0634	EA	4' To 5' Spiraea - Snowmound Spirea	119.56
32 93 33 00-0635	EA	1 Gallon Spiraea japonica & cvs - Japanese Spirea	18.66
32 93 33 00-0636	EA	2 Gallon Spiraea japonica & cvs - Japanese Spirea	36.74
32 93 33 00-0637	EA	3 Gallon Spiraea japonica & cvs - Japanese Spirea	42.53
32 93 33 00-0638	EA	5 Gallon Spiraea japonica & cvs - Japanese Spirea	46.15
32 93 33 00-0639	EA	18" B&B Spiraea japonica & cvs - Japanese Spirea	47.05
32 93 33 00-0640	EA	24" B&B Spiraea japonica & cvs - Japanese Spirea	54.29
32 93 33 00-0641	EA	30" B&B Spiraea japonica & cvs - Japanese Spirea	61.53
32 93 33 00-0642	EA	36" B&B Spiraea japonica & cvs - Japanese Spirea	71.48
32 93 33 00-0643	EA	2 Gallon Spiraea nipponica & cvs - Nippon Spiraea	28.95
32 93 33 00-0644	EA	5 Gallon Spiraea nipponica & cvs - Nippon Spiraea	43.43
32 93 33 00-0645	EA	18" B&B Spiraea nipponica & cvs - Nippon Spiraea	39.81
32 93 33 00-0646	EA	24" B&B Spiraea nipponica & cvs - Nippon Spiraea	47.05
32 93 33 00-0647	EA	30" B&B Spiraea nipponica & cvs - Nippon Spiraea	54.29
32 93 33 00-0648	EA	36" B&B Spiraea nipponica & cvs - Nippon Spiraea	61.53
32 93 33 00-0649	EA	48" B&B Spiraea nipponica & cvs - Nippon Spiraea	79.62
32 93 33 00-0650	EA	1 Gallon Spiraea x bumalda & cvs - Bumalda Spirea	18.66
32 93 33 00-0651	EA	2 Gallon Spiraea x bumalda & cvs - Bumalda Spirea	33.48
32 93 33 00-0652	EA	4 Gallon Spiraea x bumalda & cvs - Bumalda Spirea	43.43
32 93 33 00-0653	EA	18" B&B Spiraea x bumalda & cvs - Bumalda Spirea	38.00
32 93 33 00-0654	EA	24" B&B Spiraea x bumalda & cvs - Bumalda Spirea	46.15
32 93 33 00-0655	EA	30" B&B Spiraea x bumalda & cvs - Bumalda Spirea	54.29
32 93 33 00-0656	EA	36" B&B Spiraea x bumalda & cvs - Bumalda Spirea	61.53
32 93 33 00-0657	EA	5 Gallon Spiraea x vanhouttei & cvs - Vanhoutte Spirea	43.43
32 93 33 00-0658	EA	18" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	43.43
32 93 33 00-0659	EA	24" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	50.67
32 93 33 00-0660	EA	30" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	68.76
32 93 33 00-0661	EA	36" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	79.62
32 93 33 00-0662	EA	42" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	94.10
32 93 33 00-0663	EA	5 Gallon Staphylea trifolia - Bladderhut	61.09



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0664 EA 2 Gallon Stephanandra incisa & cvs - Cutleaf Stephanadra	43.43	
32 93 33 00-0665 EA 5 Gallon Stephanandra incisa & cvs - Cutleaf Stephanadra	47.05	
32 93 33 00-0666 EA 24" B&B Stephanandra incisa & cvs - Cutleaf Stephanadra	54.29	
32 93 33 00-0667 EA 30" B&B Stephanandra incisa & cvs - Cutleaf Stephanadra	65.15	
32 93 33 00-0668 EA 2 Gallon Symphoricarpos albus - Common Snowberry	45.24	
32 93 33 00-0669 EA 5 Gallon Symphoricarpos albus - Common Snowberry	47.95	
32 93 33 00-0670 EA 24" B&B Syringa meyeri & cvs - Meyer Lilac	79.62	
32 93 33 00-0671 EA 30" B&B Syringa meyeri & cvs - Meyer Lilac	99.53	
32 93 33 00-0672 EA 36" B&B Syringa meyeri & cvs - Meyer Lilac	115.82	
32 93 33 00-0673 EA 42" B&B Syringa meyeri & cvs - Meyer Lilac	133.91	
32 93 33 00-0674 EA 18" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	79.62	
32 93 33 00-0675 EA 24" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	86.86	
32 93 33 00-0676 EA 30" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	99.53	
32 93 33 00-0677 EA 36" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	115.82	
32 93 33 00-0678 EA 42" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	133.91	
32 93 33 00-0679 EA 60" B&B Syringa villosa & cvs - Late Lilac	63.34	
32 93 33 00-0680 EA 72" B&B Syringa villosa & cvs - Late Lilac	68.76	
32 93 33 00-0681 EA 36" B&B Syringa vulgaris & cvs - Common Lilac	54.29	
32 93 33 00-0682 EA 42" B&B Syringa vulgaris & cvs - Common Lilac	61.53	
32 93 33 00-0683 EA 48" B&B Syringa vulgaris & cvs - Common Lilac	68.76	
32 93 33 00-0684 EA 60" B&B Syringa vulgaris & cvs - Common Lilac	79.62	
32 93 33 00-0685 EA 72" B&B Syringa vulgaris & cvs - Common Lilac	97.72	
32 93 33 00-0686 EA 5 Gallon Syringa x chinensis & cvs - Chinese Lilac	45.24	
32 93 33 00-0687 EA 36" B&B Syringa x hyacinthiflora & cvs - Hybrid Lilac	52.48	
32 93 33 00-0688 EA 48" B&B Syringa x hyacinthiflora & cvs - Hybrid Lilac	68.76	
32 93 33 00-0689 EA 48" B&B Taxus cuspidata capitata - Capitata Japanese Yew	287.73	
32 93 33 00-0690 EA 54" B&B Taxus cuspidata capitata - Capitata Japanese Yew	322.11	
32 93 33 00-0691 EA 60" B&B Taxus cuspidata capitata - Capitata Japanese Yew	354.68	
32 93 33 00-0692 EA 72" B&B Taxus cuspidata capitata - Capitata Japanese Yew	427.07	
32 93 33 00-0693 EA 18" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	76.00	
32 93 33 00-0694 EA 24" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	99.53	
32 93 33 00-0695 EA 30" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	115.82	
32 93 33 00-0696 EA 36" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	126.67	
32 93 33 00-0697 EA 15" B&B Taxus x media & cvs - Anglojap Yew	76.00	
32 93 33 00-0698 EA 18" B&B Taxus x media & cvs - Anglojap Yew	99.53	
32 93 33 00-0699 EA 24" B&B Taxus x media & cvs - Anglojap Yew	117.62	
32 93 33 00-0700 EA 30" B&B Taxus x media & cvs - Anglojap Yew	139.34	
32 93 33 00-0701 EA 36" B&B Taxus x media & cvs - Anglojap Yew	209.91	
32 93 33 00-0702 EA 36" B&B Thuja occidentalis & cvs - Upright Arborvitae	115.82	
32 93 33 00-0703 EA 48" B&B Thuja occidentalis & cvs - Upright Arborvitae	155.63	
32 93 33 00-0704 EA 60" B&B Thuja occidentalis & cvs - Upright Arborvitae	235.25	
32 93 33 00-0705 EA 72" B&B Thuja occidentalis & cvs - Upright Arborvitae	343.83	
32 93 33 00-0706 EA 84" B&B Thuja occidentalis & cvs - Upright Arborvitae	394.49	
32 93 33 00-0707 EA 96" B&B Thuja occidentalis & cvs - Upright Arborvitae	457.83	
32 93 33 00-0708 EA 15" B&B Thuja occidentalis cvs - Dwarf Arborvitae	50.67	
32 93 33 00-0709 EA 18" B&B Thuja occidentalis cvs - Dwarf Arborvitae	70.57	
32 93 33 00-0710 EA 24" B&B Thuja occidentalis cvs - Dwarf Arborvitae	99.53	
32 93 33 00-0711 EA 3' To 4' Viburnum dilatatum - Linden Viburnum	86.51	
32 93 33 00-0712 EA 4' To 5' Viburnum dilatatum - Linden Viburnum	132.00	
32 93 33 00-0713 EA 5' To 6' Viburnum dilatatum - Linden Viburnum	173.21	
32 93 33 00-0714 EA 1 Gallon Viburnum japonicum - Japanese Viburnum	10.50	
32 93 33 00-0715 EA 3 Gallon Viburnum japonicum - Japanese Viburnum	28.77	
32 93 33 00-0716 EA 5 Gallon Viburnum plicatum - Japanese Snowball	51.71	
32 93 33 00-0717 EA 5' To 6' Viburnum plicatum - Japanese Snowball	193.82	
32 93 33 00-0718 EA 2' To 3' Viburnum rhytidophyllum - Leatherleaf Viburnum	90.79	
32 93 33 00-0719 EA 3' To 4' Viburnum rhytidophyllum - Leatherleaf Viburnum	107.12	
32 93 33 00-0720 EA 4' To 5' Viburnum rhytidophyllum - Leatherleaf Viburnum	150.66	
32 93 33 00-0721 EA 30" B&B Viburnum burkwoodii & cvs - Burkwood Viburnum	99.53	
32 93 33 00-0722 EA 36" B&B Viburnum burkwoodii & cvs - Burkwood Viburnum	119.43	
32 93 33 00-0723 EA 24" B&B Viburnum carlesii & cvs - Korean Spice Viburnum	90.48	
32 93 33 00-0724 EA 30" B&B Viburnum carlesii & cvs - Korean Spice Viburnum	108.58	
32 93 33 00-0725 EA 36" B&B Viburnum carlesii & cvs - Korean Spice Viburnum	126.67	
32 93 33 00-0726 EA 42" B&B Viburnum carlesii & cvs - Korean Spice Viburnum	144.77	
32 93 33 00-0727 EA 1 Gallon Viburnum davidii - David Viburnum	5.14	
32 93 33 00-0728 EA 5 Gallon Viburnum davidii - David Viburnum	12.72	
32 93 33 00-0729 EA 36" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	50.67	
32 93 33 00-0730 EA 42" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	54.29	
32 93 33 00-0731 EA 48" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	63.34	
32 93 33 00-0732 EA 60" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	72.38	
32 93 33 00-0733 EA 72" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	79.62	
32 93 33 00-0734 EA 30" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	48.86	
32 93 33 00-0735 EA 36" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	54.29	
32 93 33 00-0736 EA 42" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	68.76	
32 93 33 00-0737 EA 48" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	79.62	
32 93 33 00-0738 EA 60" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	108.58	
32 93 33 00-0739 EA 72" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	130.29	
32 93 33 00-0740 EA 36" B&B Viburnum lentago & cvs - Nannyberry Viburnum	54.29	
32 93 33 00-0741 EA 48" B&B Viburnum lentago & cvs - Nannyberry Viburnum	72.38	
32 93 33 00-0742 EA 5' B&B Viburnum lentago & cvs - Nannyberry Viburnum	90.48	
32 93 33 00-0743 EA 6' B&B Viburnum lentago & cvs - Nannyberry Viburnum	126.67	
32 93 33 00-0744 EA 7' B&B Viburnum lentago & cvs - Nannyberry Viburnum	180.96	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0745	EA	8' B&B Viburnum lentago & cvs - Nannyberry Viburnum	253.35	
32 93 33 00-0746	EA	9' B&B Viburnum lentago & cvs - Nannyberry Viburnum	325.73	
32 93 33 00-0747	EA	30" B&B Viburnum plicatum tomentosum & cvs - Doublefile Viburnum	65.15	
32 93 33 00-0748	EA	36" B&B Viburnum plicatum tomentosum & cvs - Doublefile Viburnum	72.38	
32 93 33 00-0749	EA	36" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	130.29	
32 93 33 00-0750	EA	48" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	199.06	
32 93 33 00-0751	EA	60" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	253.35	
32 93 33 00-0752	EA	72" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	307.63	
32 93 33 00-0753	EA	84" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	380.02	
32 93 33 00-0754	EA	96" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	452.40	
32 93 33 00-0755	EA	108" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	542.88	
32 93 33 00-0756	EA	120" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	633.36	
32 93 33 00-0757	EA	30" B&B Viburnum sargentii & cvs - Sargent Viburnum	55.19	
32 93 33 00-0758	EA	36" B&B Viburnum sargentii & cvs - Sargent Viburnum	60.62	
32 93 33 00-0759	EA	48" B&B Viburnum sargentii & cvs - Sargent Viburnum	68.76	
32 93 33 00-0760	EA	60" B&B Viburnum sargentii & cvs - Sargent Viburnum	79.62	
32 93 33 00-0761	EA	72" B&B Viburnum sargentii & cvs - Sargent Viburnum	91.39	
32 93 33 00-0762	EA	18" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	52.48	
32 93 33 00-0763	EA	24" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	63.34	
32 93 33 00-0764	EA	30" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	76.00	
32 93 33 00-0765	EA	36" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	86.86	
32 93 33 00-0766	EA	42" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	104.96	
32 93 33 00-0767	EA	48" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	115.82	
32 93 33 00-0768	EA	30" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	90.48	
32 93 33 00-0769	EA	36" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	108.58	
32 93 33 00-0770	EA	42" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	126.67	
32 93 33 00-0771	EA	48" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	144.77	
32 93 33 00-0772	EA	60" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	162.86	
32 93 33 00-0773	EA	30" B&B Viburnum x juddii & cvs - Judd Viburnum	115.82	
32 93 33 00-0774	EA	36" B&B Viburnum x juddii & cvs - Judd Viburnum	130.29	
32 93 33 00-0775	EA	42" B&B Viburnum x juddii & cvs - Judd Viburnum	148.39	
32 93 33 00-0776	EA	48" B&B Viburnum x juddii & cvs - Judd Viburnum	170.10	
32 93 33 00-0777	EA	2' To 3' Viburnum opulus "Roseum" - Fragrant Snowball	107.12	
32 93 33 00-0778	EA	3' To 4' Viburnum opulus "Roseum" - Fragrant Snowball	132.00	
32 93 33 00-0779	EA	4' To 5' Viburnum opulus "Roseum" - Fragrant Snowball	193.82	
32 93 33 00-0780	EA	5 Gallon Weigela florida & cvs - Old Fashioned Weigela	59.72	
32 93 33 00-0781	EA	24" B&B Weigela florida & cvs - Old Fashioned Weigela	54.29	
32 93 33 00-0782	EA	30" B&B Weigela florida & cvs - Old Fashioned Weigela	61.53	
32 93 33 00-0783	EA	36" B&B Weigela florida & cvs - Old Fashioned Weigela	68.76	
32 93 33 00-0784	EA	42" B&B Weigela florida & cvs - Old Fashioned Weigela	79.62	
32 93 33 00-0785	EA	48" B&B Weigela florida & cvs - Old Fashioned Weigela	90.48	
32 93 33 00-0786	EA	1 Gallon Xylosma congestum - Shiny Xylosma	12.44	
32 93 33 00-0787	EA	5 Gallon Xylosma congestum - Shiny Xylosma	35.19	
32 93 33 00-0788	EA	15 Gallon Xylosma congestum - Shiny Xylosma	154.74	
32 93 33 00-0789	EA	1 Gallon Yucca aloifolia - Spanish Bayonet	10.50	
32 93 33 00-0790	EA	3 Gallon Yucca aloifolia - Spanish Bayonet	27.80	
32 93 33 00-0791	EA	1 Gallon Yucca filamentosa - Adams Needle	14.58	
32 93 33 00-0792	EA	3 Gallon Yucca filamentosa - Adams Needle	28.38	
32 93 33 00-0793	EA	5 Gallon Yucca filamentosa - Adams Needle	44.91	
32 93 33 00-0794	EA	5 Gallon Border Forsythia - Goldenbells	49.96	
32 93 33 00-0795	EA	2' To 3' Border Forsythia - Goldenbells	41.21	
32 93 33 00-0796	EA	3' To 4' Border Forsythia - Goldenbells	52.10	
32 93 33 00-0797	EA	4' To 5' Border Forsythia - Goldenbells	64.93	
32 93 33 00-0798	EA	5' To 6' Border Forsythia - Goldenbells	77.96	
32 93 33 00-0799	EA	6' To 8' Border Forsythia - Goldenbells	107.12	
32 93 33 00-0800	EA	3' Juniperus chinensis - Columnar Chinese Juniper	106.13	
32 93 33 00-0801	EA	4' Juniperus chinensis - Columnar Chinese Juniper	145.67	
32 93 33 00-0802	EA	5' Juniperus chinensis - Columnar Chinese Juniper	228.92	
32 93 33 00-0803	EA	6' Juniperus chinensis - Columnar Chinese Juniper	266.37	
32 93 33 00-0804	EA	7' Juniperus chinensis - Columnar Chinese Juniper	349.62	
32 93 33 00-0805	EA	2 Gallon Chrysobalanus icaco - Cocoplum Red Tip	20.81	
32 93 33 00-0806	EA	3 Gallon Chrysobalanus icaco - Cocoplum Red Tip	29.13	
32 93 33 00-0807	EA	5 Gallon Chrysobalanus icaco - Cocoplum Red Tip	70.55	
32 93 33 00-0808	EA	2 Gallon Chrysobalanus icaco - Cocoplum Green Tip	20.81	
32 93 33 00-0809	EA	3 Gallon Chrysobalanus icaco - Cocoplum Green Tip	29.13	

32 93 43 Trees (32 93)

Note: (cvs = cultivar) materials only. See CSI section 32 93 53 00-0001 for installation and planting of trees.

32 93 43 00-0001 Ornamental Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0002	EA	6' Clump Form Acer ginnala & cvs - Amur Maple	324.34	
32 93 43 00-0003	EA	7' Clump Form Acer ginnala & cvs - Amur Maple	396.42	
32 93 43 00-0004	EA	8' Clump Form Acer ginnala & cvs - Amur Maple	450.48	
32 93 43 00-0005	EA	10' Clump Form Acer ginnala & cvs - Amur Maple	522.56	
32 93 43 00-0006	EA	12' Clump Form Acer ginnala & cvs - Amur Maple	594.63	
32 93 43 00-0007	EA	14' Clump Form Acer ginnala & cvs - Amur Maple	702.75	
32 93 43 00-0008	EA	1-1/2" To 2" Caliper Acer griseum - Paperbark Maple	238.78	
32 93 43 00-0009	EA	2" To 2-1/2" Caliper Acer griseum - Paperbark Maple	1,153.22	
32 93 43 00-0010	EA	2-1/2" To 3" Caliper Acer griseum - Paperbark Maple	1,441.53	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0011	EA		5' Clump Form Acer griseum - Paperbark Maple.....	288.31	
32 93 43 00-0012	EA		1-1/2" Caliper Aesculus californica - California Buckeye	720.76	
32 93 43 00-0013	EA		2" Caliper Aesculus californica - California Buckeye.....	937.00	
32 93 43 00-0014	EA		2-1/2" Caliper Aesculus californica - California Buckeye	1,081.15	
32 93 43 00-0015	EA		3" Caliper Aesculus californica - California Buckeye.....	1,225.30	
32 93 43 00-0016	EA		3-1/2" Caliper Aesculus californica - California Buckeye	1,441.53	
32 93 43 00-0017	EA		36" B&B Amelanchier alnifolia & cvs - Saskatoon Serviceberry	144.77	
32 93 43 00-0018	EA		48" B&B Amelanchier alnifolia & cvs - Saskatoon Serviceberry	180.96	
32 93 43 00-0019	EA		60" B&B Amelanchier alnifolia & cvs - Saskatoon Serviceberry	224.39	
32 93 43 00-0020	EA		60" B&B Amelanchier arborea & cvs - Downy Serviceberry	180.96	
32 93 43 00-0021	EA		72" B&B Amelanchier arborea & cvs - Downy Serviceberry	217.15	
32 93 43 00-0022	EA		7' B&B Amelanchier arborea & cvs - Downy Serviceberry.....	253.35	
32 93 43 00-0023	EA		8' B&B Amelanchier arborea & cvs - Downy Serviceberry.....	289.54	
32 93 43 00-0024	EA		5' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry	325.73	
32 93 43 00-0025	EA		6' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry	361.92	
32 93 43 00-0026	EA		7' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry	416.21	
32 93 43 00-0027	EA		8' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry	470.50	
32 93 43 00-0028	EA		9' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry	542.88	
32 93 43 00-0029	EA		7' B&B Amelanchier laevis & cvs - Allegheny Serviceberry	416.21	
32 93 43 00-0030	EA		8' B&B Amelanchier laevis & cvs - Allegheny Serviceberry	488.59	
32 93 43 00-0031	EA		9' B&B Amelanchier laevis & cvs - Allegheny Serviceberry	560.98	
32 93 43 00-0032	EA		10' B&B Amelanchier laevis & cvs - Allegheny Serviceberry	615.27	
32 93 43 00-0033	EA		30" B&B Amelanchier stolonifera & cvs - Running Serviceberry.....	144.77	
32 93 43 00-0034	EA		48" B&B Amelanchier stolonifera & cvs - Running Serviceberry.....	307.63	
32 93 43 00-0035	EA		60" B&B Amelanchier stolonifera & cvs - Running Serviceberry.....	398.11	
32 93 43 00-0036	EA		2' To 4' Amelanchier - Juneberry	44.07	
32 93 43 00-0037	EA		4' To 5' Amelanchier - Juneberry	46.23	
32 93 43 00-0038	EA		5' To 6' Amelanchier - Juneberry	55.04	
32 93 43 00-0039	EA		6' To 8' Amelanchier - Juneberry	65.67	
32 93 43 00-0040	EA		6' Cercis occidentalis - Western Redbud.....	201.83	
32 93 43 00-0041	EA		8' Cercis occidentalis - Western Redbud.....	277.67	
32 93 43 00-0042	EA		2-1/2" Caliper Cercis occidentalis - Western Redbud	571.93	
32 93 43 00-0043	EA		3" Caliper Cercis occidentalis - Western Redbud	696.26	
32 93 43 00-0044	EA		2' To 3' Magnolia Virginiana - Sweetbay Magnolia	68.30	
32 93 43 00-0045	EA		3' To 4' Magnolia Virginiana - Sweetbay Magnolia	102.44	
32 93 43 00-0046	EA		4' To 5' Magnolia Virginiana - Sweetbay Magnolia	128.06	
32 93 43 00-0047	EA		5' To 6' Magnolia Virginiana - Sweetbay Magnolia	159.50	
32 93 43 00-0048	EA		4' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	270.29	
32 93 43 00-0049	EA		5' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	360.38	
32 93 43 00-0050	EA		6' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	468.50	
32 93 43 00-0051	EA		7' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	522.56	
32 93 43 00-0052	EA		8' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	630.67	
32 93 43 00-0053	EA		9' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	702.75	
32 93 43 00-0054	EA		4' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	270.29	
32 93 43 00-0055	EA		5' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	360.38	
32 93 43 00-0056	EA		6' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	468.50	
32 93 43 00-0057	EA		7' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	522.56	
32 93 43 00-0058	EA		8' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	630.67	
32 93 43 00-0059	EA		9' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	702.75	
32 93 43 00-0060	EA		1 Gallon Platanus racemosa, Multi Trunk - Western Sycamore.....	5.70	
32 93 43 00-0061	EA		5 Gallon Platanus racemosa, Multi Trunk - Western Sycamore.....	24.15	
32 93 43 00-0062	EA		20 Gallon Prunus subhirtella - Flowering Cherry	253.40	
32 93 43 00-0063	EA		1-1/2" To 2" Caliper Prunus subhirtella - Flowering Cherry.....	261.94	
32 93 43 00-0064	EA		2" To 2-1/2" Caliper Prunus subhirtella - Flowering Cherry.....	327.39	
32 93 43 00-0065	EA		3-1/2" To 4" Caliper Prunus subhirtella - Flowering Cherry.....	683.24	
32 93 43 00-0066	EA		3" To 3-1/2" Caliper Prunus subhirtella - Flowering Cherry.....	526.59	
32 93 43 00-0067	EA		4" To 5" Caliper Prunus subhirtella - Flowering Cherry.....	1,024.86	
32 93 43 00-0068	EA		5 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	65.45	
32 93 43 00-0069	EA		15 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	179.28	
32 93 43 00-0070	EA		20 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	233.48	
32 93 43 00-0071	EA		5' To 6' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	73.99	
32 93 43 00-0072	EA		6' To 8' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	142.29	
32 93 43 00-0073	EA		1-1/2" To 2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	261.94	
32 93 43 00-0074	EA		2" To 2-1/2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	313.16	
32 93 43 00-0075	EA		1-1/2" To 1-3/4" Caliper Prunus subhirtella - Weeping Cherry.....	205.03	
32 93 43 00-0076	EA		1-1/4" To 1-1/2" Caliper Prunus subhirtella - Weeping Cherry.....	170.74	
32 93 43 00-0077	EA		1-3/4" To 2" Caliper Prunus subhirtella - Weeping Cherry.....	250.42	
32 93 43 00-0078	EA		2" To 2-1/2" Caliper Prunus subhirtella - Weeping Cherry.....	298.93	
32 93 43 00-0079	EA		2-1/2" To 3" Caliper Prunus subhirtella - Weeping Cherry.....	384.30	
32 93 43 00-0080	EA		15 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	197.84	
32 93 43 00-0081	EA		20 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	247.31	
32 93 43 00-0082	EA		1-1/2" To 2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	257.20	
32 93 43 00-0083	EA		2" To 2-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	306.66	
32 93 43 00-0084	EA		2-1/2" To 3" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	415.47	
32 93 43 00-0085	EA		3" To 3-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	544.07	
32 93 43 00-0086	EA		3-1/2" To 4" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	692.45	
32 93 43 00-0087	EA		15 Gallon Pyrus Calleryana x 'Bradford' - Flowering Pear.....	197.84	
32 93 43 00-0088	EA		20 Gallon Pyrus Calleryana x 'Bradford' - Flowering Pear.....	247.31	
32 93 43 00-0089	EA		1-1/2" To 2" Caliper Pyrus Calleryana x 'Bradford' - Flowering Pear	168.17	
32 93 43 00-0090	EA		2" To 2-1/2" Caliper Pyrus Calleryana x 'Bradford' - Flowering Pear	257.20	
32 93 43 00-0091	EA		2-1/2" To 3" Caliper Pyrus Calleryana x 'Bradford' - Flowering Pear	306.39	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 43 00-0092	EA	3"	To 3-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	415.47	
32 93 43 00-0093	EA	3-1/2"	To 4" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	544.07	
32 93 43 00-0094	EA	1-1/2"	Caliper Pyrus calleryana & cvs - Callery Pear	360.38	
32 93 43 00-0095	EA	2"	Caliper Pyrus calleryana & cvs - Callery Pear	450.48	
32 93 43 00-0096	EA	2-1/2"	Caliper Pyrus calleryana & cvs - Callery Pear	558.59	
32 93 43 00-0097	EA	3"	Caliper Pyrus calleryana & cvs - Callery Pear	630.67	
32 93 43 00-0098	EA	3-1/2"	Caliper Pyrus calleryana & cvs - Callery Pear	702.75	
32 93 43 00-0099	EA	4"	Caliper Pyrus calleryana & cvs - Callery Pear	900.96	
32 93 43 00-0100	EA	1	Gallon Ribes aureum - Golden Currant.....	4.99	
32 93 43 00-0101	EA	5	Gallon Ribes aureum - Golden Currant.....	14.27	
32 93 43 00-0102	EA	1	Gallon Ribes sanguineum - Red Flowering Currant.....	4.99	
32 93 43 00-0103	EA	5	Gallon Ribes sanguineum - Red Flowering Currant.....	14.27	
32 93 43 00-0104	EA	1	Gallon Ribes viburnifolium - Evergreen Currant.....	4.99	
32 93 43 00-0105	EA	5	Gallon Ribes viburnifolium - Evergreen Currant.....	14.27	
32 93 43 00-0106	EA	8'	Cassia leptophylla - Gold Medallion Tree.....	215.54	
32 93 43 00-0107	EA	10'	Cassia leptophylla - Gold Medallion Tree.....	273.57	
32 93 43 00-0108	EA	12'	Cassia leptophylla - Gold Medallion Tree.....	331.60	
32 93 43 00-0109	EA	6'	Magnolia grandiflora 'St. Mary's'.....	248.70	
32 93 43 00-0110	EA	8'	Magnolia grandiflora 'St. Mary's'.....	439.37	
32 93 43 00-0111	EA	10'	Magnolia grandiflora 'St. Mary's'.....	552.11	
32 93 43 00-0112	EA	12'	Magnolia grandiflora 'St. Mary's'.....	663.20	
32 93 43 00-0113	EA	14'	Magnolia grandiflora 'St. Mary's'.....	770.97	
32 93 43 00-0114	EA	16'	Magnolia grandiflora 'St. Mary's'.....	911.90	
32 93 43 00-0115	EA	24"	Box Magnolia grandiflora 'St. Mary's'.....	273.57	
32 93 43 00-0116	EA	6'	Prunus cerasifera - Purple Leaf Plum.....	129.32	
32 93 43 00-0117	EA	8'	Prunus cerasifera - Purple Leaf Plum.....	149.22	
32 93 43 00-0118	EA	10'	Prunus cerasifera - Purple Leaf Plum.....	192.33	
32 93 43 00-0119	EA	24"	Box Prunus cerasifera - Purple Leaf Plum.....	204.76	
32 93 43 00-0120	EA	30"	Box Prunus cerasifera - Purple Leaf Plum.....	414.50	
32 93 43 00-0121	EA	36"	Box Prunus cerasifera - Purple Leaf Plum.....	635.84	
32 93 43 00-0122	EA	6'	Pittosporum phillyraeoides - Willow Pittorporum	270.25	
32 93 43 00-0123	EA	8'	Pittosporum phillyraeoides - Willow Pittorporum	386.31	
32 93 43 00-0124	EA	10'	Pittosporum phillyraeoides - Willow Pittorporum	462.58	
32 93 43 00-0125	EA	12'	Pittosporum phillyraeoides - Willow Pittorporum	596.88	
32 93 43 00-0126	EA	6'	Stenocarpus sinuatus - Firewheel Tree	397.92	
32 93 43 00-0127	EA	8'	Stenocarpus sinuatus - Firewheel Tree	530.56	
32 93 43 00-0128	EA	10'	Stenocarpus sinuatus - Firewheel Tree	663.20	
32 93 43 00-0129	EA	12'	Stenocarpus sinuatus - Firewheel Tree.....	795.84	
32 93 43 00-0130	EA	24"	Box Tabebuia ipi - Pink Trumpet	386.31	
32 93 43 00-0131	EA	36"	Box Tabebuia ipi - Pink Trumpet	1,027.96	
32 93 43 00-0132	EA	1-1/2"	Caliper Arbutus menziesii - Madrona.....	288.35	
32 93 43 00-0133	EA	2"	Caliper Arbutus menziesii - Madrona.....	374.85	
32 93 43 00-0134	EA	2-1/2"	Caliper Arbutus menziesii - Madrona.....	432.52	
32 93 43 00-0135	EA	3"	Caliper Arbutus menziesii - Madrona.....	490.19	
32 93 43 00-0136	EA	3-1/2"	Caliper Arbutus menziesii - Madrona.....	576.70	
32 93 43 00-0137	EA	1-1/2"	Caliper Koelreuteria bipinnata - Chinese Lantern	198.96	
32 93 43 00-0138	EA	2"	Caliper Koelreuteria bipinnata - Chinese Lantern	323.31	
32 93 43 00-0139	EA	2-1/2"	Caliper Koelreuteria bipinnata - Chinese Lantern	397.92	
32 93 43 00-0140	EA	3"	Caliper Koelreuteria bipinnata - Chinese Lantern	439.37	
32 93 43 00-0141	EA	24"	Box Koelreuteria bipinnata - Chinese Lantern	193.99	
32 93 43 00-0142	EA	30"	Box Koelreuteria bipinnata - Chinese Lantern	447.66	
32 93 43 00-0143	EA	36"	Box Koelreuteria bipinnata - Chinese Lantern	700.50	
32 93 43 00-0144	EA	1-1/2"	Cliber Koelreuteria paniculata - Golden Rain Tree	180.72	
32 93 43 00-0145	EA	2"	Cliber Koelreuteria paniculata - Golden Rain Tree	293.47	
32 93 43 00-0146	EA	2-1/2"	Cliber Koelreuteria paniculata - Golden Rain Tree	359.79	
32 93 43 00-0147	EA	3"	Cliber Koelreuteria paniculata - Golden Rain Tree	406.21	
32 93 43 00-0148	EA	6'	Magnolia grandiflora - Southern Magnolia.....	122.69	
32 93 43 00-0149	EA	7'	Magnolia grandiflora - Southern Magnolia.....	185.70	
32 93 43 00-0150	EA	8'	Magnolia grandiflora - Southern Magnolia.....	260.31	
32 93 43 00-0151	EA	9'	Magnolia grandiflora - Southern Magnolia.....	346.52	
32 93 43 00-0152	EA	10'	Magnolia grandiflora - Southern Magnolia.....	527.24	
32 93 43 00-0153	EA	24"	Box Magnolia grandiflora - Southern Magnolia.....	215.54	
32 93 43 00-0154	EA	1-1/2"	Caliper Tipuana tipu - Tipu Tree.....	256.99	
32 93 43 00-0155	EA	2"	Caliper Tipuana tipu - Tipu Tree	334.92	
32 93 43 00-0156	EA	2-1/2"	Caliper Tipuana tipu - Tipu Tree	424.45	
32 93 43 00-0157	EA	3"	Caliper Tipuana tipu - Tipu Tree	489.11	
32 93 43 00-0158	EA	3-1/2"	Caliper Tipuana tipu - Tipu Tree.....	719.57	
32 93 43 00-0159	EA	4"	Caliper Tipuana tipu - Tipu Tree	961.64	
32 93 43 00-0160	EA	24"	Box Tipuana tipu - Tipu Tree	193.99	
32 93 43 00-0161	EA	6'	Albizia julibrissin - Silk Tree	397.92	
32 93 43 00-0162	EA	8'	Albizia julibrissin - Silk Tree.....	530.56	
32 93 43 00-0163	EA	10'	Albizia julibrissin - Silk Tree.....	663.20	
32 93 43 00-0164	EA	12'	Albizia julibrissin - Silk Tree.....	795.84	
32 93 43 00-0165	EA	6'	Brachychiton acerifolius - Flame Tree	397.92	
32 93 43 00-0166	EA	8'	Brachychiton acerifolius - Flame Tree	530.56	
32 93 43 00-0167	EA	10'	Brachychiton acerifolius - Flame Tree	663.20	
32 93 43 00-0168	EA	12'	Brachychiton acerifolius - Flame Tree	795.84	
32 93 43 00-0169	EA	1-1/2"	Caliper Chilopsis linearis - Desert Willow	321.65	
32 93 43 00-0170	EA	2"	Caliper Chilopsis linearis - Desert Willow	386.31	
32 93 43 00-0171	EA	2-1/2"	Caliper Chilopsis linearis - Desert Willow	411.18	
32 93 43 00-0172	EA	3"	Caliper Chilopsis linearis - Desert Willow	455.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0173	EA		5 Gallon Chionanthus retusus - Chinese Fringe Tree.....	16.58	
32 93 43 00-0174	EA		15 Gallon Chionanthus retusus - Chinese Fringe Tree.....	66.32	
32 93 43 00-0175	EA		24" Box Chionanthus retusus - Chinese Fringe Tree.....	331.60	
32 93 43 00-0176	EA		5 Gallon Calodendrum capense - Cape Chestnut.....	24.87	
32 93 43 00-0177	EA		15 Gallon Calodendrum capense - Cape Chestnut.....	99.48	
32 93 43 00-0178	EA		24" Box Calodendrum capense - Cape Chestnut.....	373.05	
32 93 43 00-0179	EA		6' Chionanthus virginicus - White Fringe Tree.....	198.96	
32 93 43 00-0180	EA		8' Chionanthus virginicus - White Fringe Tree.....	580.22	
32 93 43 00-0181	EA		10' Chionanthus virginicus - White Fringe Tree.....	808.16	
32 93 43 00-0182	EA		15 Gallon Geijera parvifolia - Australian Willow.....	248.66	
32 93 43 00-0183	EA		24" Box Geijera parvifolia - Australian Willow.....	511.83	
32 93 43 00-0184	EA		30" Box Geijera parvifolia - Australian Willow.....	953.21	
32 93 43 00-0185	EA		36" Box Geijera parvifolia - Australian Willow.....	1,367.65	
32 93 43 00-0186	EA		1-1/2" Caliper Ginkgo Biloba - Maidenhair Tree.....	737.70	
32 93 43 00-0187	EA		2" Caliper Ginkgo Biloba - Maidenhair Tree.....	1,027.81	
32 93 43 00-0188	EA		2-1/2" Caliper Ginkgo Biloba - Maidenhair Tree.....	1,239.18	
32 93 43 00-0189	EA		3" Caliper Ginkgo Biloba - Maidenhair Tree.....	1,446.40	
32 93 43 00-0190	EA		3-1/2" Caliper Ginkgo Biloba - Maidenhair Tree.....	1,893.99	
32 93 43 00-0191	EA		4" Caliper Ginkgo Biloba - Maidenhair Tree.....	2,022.47	
32 93 43 00-0192	EA		4-1/2" Caliper Ginkgo Biloba - Maidenhair Tree.....	2,155.09	
32 93 43 00-0193	EA		24" Box Ginkgo Biloba - Maidenhair Tree.....	673.46	
32 93 43 00-0194	EA		15 Gallon Sapium sebiferum - Chinese Tallow Tree.....	248.66	
32 93 43 00-0195	EA		24" Box Sapium sebiferum - Chinese Tallow Tree.....	911.77	
32 93 43 00-0196	EA		4' To 5' Lagerstroemia indica - Crape Myrtle.....	265.24	
32 93 43 00-0197	EA		6' Lagerstroemia indica - Crape Myrtle.....	493.18	
32 93 43 00-0198	EA		8' Lagerstroemia indica - Crape Myrtle.....	509.76	
32 93 43 00-0199	EA		10' Lagerstroemia indica - Crape Myrtle.....	617.52	
32 93 43 00-0200	EA		24" Box Lagerstroemia indica - Crape Myrtle.....	484.89	
32 93 43 00-0201	EA		5 Gallon Celtis Sinensis - Chinese Hackberry.....	24.33	
32 93 43 00-0202	EA		15 Gallon Celtis Sinensis - Chinese Hackberry.....	64.14	
32 93 43 00-0203	EA		24" Box Celtis Sinensis - Chinese Hackberry.....	210.12	
32 93 43 00-0204	EA		36" Box Celtis Sinensis - Chinese Hackberry.....	613.77	
32 93 43 00-0205	EA		5 Gallon Crataegus phaenopyrum - Washington Hawthorn.....	24.33	
32 93 43 00-0206	EA		15 Gallon Crataegus phaenopyrum - Washington Hawthorn.....	64.14	
32 93 43 00-0207	EA		24" Box Crataegus phaenopyrum - Washington Hawthorn.....	210.12	
32 93 43 00-0208	EA		36" Box Crataegus phaenopyrum - Washington Hawthorn.....	613.77	
32 93 43 00-0209	EA		1 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	7.19	
32 93 43 00-0210	EA		5 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	19.91	
32 93 43 00-0211	EA		15 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	87.37	
32 93 43 00-0212	EA		24" Box Eucalyptus ficifolia - Red-Flowering Gum.....	210.12	
32 93 43 00-0213	EA		36" Box Eucalyptus ficifolia - Red-Flowering Gum.....	552.95	
32 93 43 00-0214	EA		15 Gallon Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	54.19	
32 93 43 00-0215	EA		24" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	176.94	
32 93 43 00-0216	EA		36" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	470.01	
32 93 43 00-0217	EA		48" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	1,050.60	
32 93 43 00-0218	EA		5 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	15.48	
32 93 43 00-0219	EA		15 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	54.19	
32 93 43 00-0220	EA		24" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	176.94	
32 93 43 00-0221	EA		36" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	470.01	
32 93 43 00-0222	EA		48" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	1,050.60	
32 93 43 00-0223	EA		5 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	15.48	
32 93 43 00-0224	EA		15 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	65.25	
32 93 43 00-0225	EA		24" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	176.94	
32 93 43 00-0226	EA		36" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	497.66	
32 93 43 00-0227	EA		48" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	1,271.78	
32 93 43 00-0228	EA		5 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	15.48	
32 93 43 00-0229	EA		15 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	65.25	
32 93 43 00-0230	EA		24" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	176.94	
32 93 43 00-0231	EA		36" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	497.66	
32 93 43 00-0232	EA		48" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	1,271.78	
32 93 43 00-0233	EA		5 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	15.48	
32 93 43 00-0234	EA		15 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	65.25	
32 93 43 00-0235	EA		24" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	176.94	
32 93 43 00-0236	EA		36" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	497.66	
32 93 43 00-0237	EA		48" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	1,271.78	
32 93 43 00-0238	EA		1 Gallon Pittosporum undulatum - Victorian Box.....	4.98	
32 93 43 00-0239	EA		5 Gallon Pittosporum undulatum - Victorian Box.....	15.48	
32 93 43 00-0240	EA		15 Gallon Pittosporum undulatum - Victorian Box.....	65.25	
32 93 43 00-0241	EA		24" Box Pittosporum undulatum - Victorian Box.....	176.94	
32 93 43 00-0242	EA		36" Box Pittosporum undulatum - Victorian Box.....	497.66	
32 93 43 00-0243	EA		48" Box Pittosporum undulatum - Victorian Box.....	1,271.78	
32 93 43 00-0244	EA		15 Gallon Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum.....	55.24	
32 93 43 00-0245	EA		24" Box Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum.....	199.01	

32 93 43 00-0246

Shade Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0247	EA		3-1/2" To 4" Caliper Acer palmatum - Bloodgood Japanese Maple.....	204.30	
32 93 43 00-0248	EA		4" To 4-1/2" Caliper Acer palmatum - Bloodgood Japanese Maple.....	250.44	
32 93 43 00-0249	EA		4-1/2" To 5" Caliper Acer palmatum - Bloodgood Japanese Maple.....	326.22	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0250	EA	5" To 6" Caliper Acer palmatum - Bloodgood Japanese Maple	422.88
32 93 43 00-0251	EA	2' To 2-1/2' Acer palmatum - Japanese Maple	21.55
32 93 43 00-0252	EA	4' To 5' Acer palmatum - Japanese Maple	45.25
32 93 43 00-0253	EA	5' To 6' Acer palmatum - Japanese Maple	59.26
32 93 43 00-0254	EA	6' To 7' Acer palmatum - Japanese Maple	107.74
32 93 43 00-0255	EA	7' To 8' Acer palmatum - Japanese Maple	150.84
32 93 43 00-0256	EA	8' To 10' Acer palmatum - Japanese Maple	193.94
32 93 43 00-0257	EA	10' To 12' Acer palmatum - Japanese Maple	258.58
32 93 43 00-0258	EA	2" Caliper Acer platanoides & cvs - Norway Maple	109.84
32 93 43 00-0259	EA	2" Caliper Acer platanoides & cvs - Norway Maple	133.72
32 93 43 00-0260	EA	3" Caliper Acer platanoides & cvs - Norway Maple	171.92
32 93 43 00-0261	EA	3-1/2" Caliper Acer platanoides & cvs - Norway Maple	200.58
32 93 43 00-0262	EA	4" Caliper Acer platanoides & cvs - Norway Maple	214.90
32 93 43 00-0263	EA	4-1/2" Caliper Acer platanoides & cvs - Norway Maple	234.01
32 93 43 00-0264	EA	5" Caliper Acer platanoides & cvs - Norway Maple	262.66
32 93 43 00-0265	EA	2" Caliper Acer rubrum & cvs - Red Maple	105.06
32 93 43 00-0266	EA	2-1/2" Caliper Acer rubrum & cvs - Red Maple	133.72
32 93 43 00-0267	EA	3" Caliper Acer rubrum & cvs - Red Maple	171.92
32 93 43 00-0268	EA	3-1/2" Caliper Acer rubrum & cvs - Red Maple	210.13
32 93 43 00-0269	EA	4" Caliper Acer rubrum & cvs - Red Maple	238.78
32 93 43 00-0270	EA	4-1/2" Caliper Acer rubrum & cvs - Red Maple	276.99
32 93 43 00-0271	EA	5" Caliper Acer rubrum & cvs - Red Maple	310.42
32 93 43 00-0272	EA	8' Clump Form Acer rubrum & cvs - Red Maple	128.94
32 93 43 00-0273	EA	10' Clump Form Acer rubrum & cvs - Red Maple	171.92
32 93 43 00-0274	EA	12' Clump Form Acer rubrum & cvs - Red Maple	200.58
32 93 43 00-0275	EA	14' Clump Form Acer rubrum & cvs - Red Maple	229.23
32 93 43 00-0276	EA	16' Clump Form Acer rubrum & cvs - Red Maple	257.89
32 93 43 00-0277	EA	18' Clump Form Acer rubrum & cvs - Red Maple	286.54
32 93 43 00-0278	EA	2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	167.15
32 93 43 00-0279	EA	2-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	186.25
32 93 43 00-0280	EA	3" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	210.13
32 93 43 00-0281	EA	3-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	238.78
32 93 43 00-0282	EA	4" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	286.54
32 93 43 00-0283	EA	2" Caliper Betula nigra - River Birch	119.39
32 93 43 00-0284	EA	2-1/2" Caliper Betula nigra - River Birch	135.20
32 93 43 00-0285	EA	3" Caliper Betula nigra - River Birch	152.82
32 93 43 00-0286	EA	3-1/2" Caliper Betula nigra - River Birch	191.03
32 93 43 00-0287	EA	4" Caliper Betula nigra - River Birch	214.90
32 93 43 00-0288	EA	4-1/2" Caliper Betula nigra - River Birch	238.78
32 93 43 00-0289	EA	5" Caliper Betula nigra - River Birch	262.66
32 93 43 00-0290	EA	8' Clump Form Betula nigra - River Birch	109.84
32 93 43 00-0291	EA	10' Clump Form Betula nigra - River Birch	124.17
32 93 43 00-0292	EA	12' Clump Form Betula nigra - River Birch	143.27
32 93 43 00-0293	EA	14' Clump Form Betula nigra - River Birch	167.15
32 93 43 00-0294	EA	16' Clump Form Betula nigra - River Birch	191.03
32 93 43 00-0295	EA	12' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	143.27
32 93 43 00-0296	EA	14' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	171.92
32 93 43 00-0297	EA	16' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	200.58
32 93 43 00-0298	EA	18' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	238.78
32 93 43 00-0299	EA	20' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	248.33
32 93 43 00-0300	EA	2" Caliper Carpinus betulus & cvs - European Hornbeam	191.03
32 93 43 00-0301	EA	2-1/2" Caliper Carpinus betulus & cvs - European Hornbeam	214.90
32 93 43 00-0302	EA	3" Caliper Carpinus betulus & cvs - European Hornbeam	248.33
32 93 43 00-0303	EA	3-1/2" Caliper Carpinus betulus & cvs - European Hornbeam	300.87
32 93 43 00-0304	EA	6' Clump Form Carpinus betulus & cvs - European Hornbeam	85.96
32 93 43 00-0305	EA	7' Clump Form Carpinus betulus & cvs - European Hornbeam	119.39
32 93 43 00-0306	EA	8' Clump Form Carpinus betulus & cvs - European Hornbeam	148.05
32 93 43 00-0307	EA	2" Caliper Catalpa speciosa - Western Catalpa	105.06
32 93 43 00-0308	EA	2-1/2" Caliper Catalpa speciosa - Western Catalpa	143.27
32 93 43 00-0309	EA	3" Caliper Catalpa speciosa - Western Catalpa	186.25
32 93 43 00-0310	EA	3-1/2" Caliper Catalpa speciosa - Western Catalpa	224.46
32 93 43 00-0311	EA	4" Caliper Catalpa speciosa - Western Catalpa	257.89
32 93 43 00-0312	EA	8' Clump Form Corylus cornuta californica - Western Filbert	133.72
32 93 43 00-0313	EA	10' Clump Form Corylus cornuta californica - Western Filbert	162.37
32 93 43 00-0314	EA	12' Clump Form Corylus cornuta californica - Western Filbert	191.03
32 93 43 00-0315	EA	1-1/2" Caliper Diospyros - Persimmon	85.96
32 93 43 00-0316	EA	2" Caliper Diospyros - Persimmon	105.06
32 93 43 00-0317	EA	2-1/2" Caliper Diospyros - Persimmon	133.72
32 93 43 00-0318	EA	3" Caliper Diospyros - Persimmon	167.15
32 93 43 00-0319	EA	3-1/2" Caliper Diospyros - Persimmon	200.58
32 93 43 00-0320	EA	2" Caliper Fagus sylvatica & cvs - European Beech	214.90
32 93 43 00-0321	EA	2-1/2" Caliper Fagus sylvatica & cvs - European Beech	257.89
32 93 43 00-0322	EA	3" Caliper Fagus sylvatica & cvs - European Beech	310.42
32 93 43 00-0323	EA	3-1/2" Caliper Fagus sylvatica & cvs - European Beech	343.85
32 93 43 00-0324	EA	4" Caliper Fagus sylvatica & cvs - European Beech	405.93
32 93 43 00-0325	EA	4-1/2" Caliper Fagus sylvatica & cvs - European Beech	525.32
32 93 43 00-0326	EA	5" Caliper Fagus sylvatica & cvs - European Beech	620.83
32 93 43 00-0327	EA	2" Caliper Fraxinus americana & cvs - White Ash	119.39
32 93 43 00-0328	EA	2-1/2" Caliper Fraxinus americana & cvs - White Ash	143.27
32 93 43 00-0329	EA	3" Caliper Fraxinus americana & cvs - White Ash	181.47
32 93 43 00-0330	EA	3-1/2" Caliper Fraxinus americana & cvs - White Ash	219.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0331 EA 4" Caliper Fraxinus americana & cvs - White Ash.....	257.89	
32 93 43 00-0332 EA 4-1/2" Caliper Fraxinus americana & cvs - White Ash	286.54	
32 93 43 00-0333 EA 5" Caliper Fraxinus americana & cvs - White Ash.....	334.30	
32 93 43 00-0334 EA 1-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	167.15	
32 93 43 00-0335 EA 2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	186.25	
32 93 43 00-0336 EA 2-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	210.13	
32 93 43 00-0337 EA 3" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	234.01	
32 93 43 00-0338 EA 3-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	262.66	
32 93 43 00-0339 EA 4" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	286.54	
32 93 43 00-0340 EA 4-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	429.81	
32 93 43 00-0341 EA 5" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	477.57	
32 93 43 00-0342 EA 2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	114.62	
32 93 43 00-0343 EA 2-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	143.27	
32 93 43 00-0344 EA 3" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	171.92	
32 93 43 00-0345 EA 3-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	200.58	
32 93 43 00-0346 EA 4" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	229.23	
32 93 43 00-0347 EA 4-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	257.89	
32 93 43 00-0348 EA 5" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	305.64	
32 93 43 00-0349 EA 10' - 12' Bursera Simaruba - Gumbo Limbo.....	60.41	
32 93 43 00-0350 EA 12' - 14' Bursera Simaruba - Gumbo Limbo.....	71.40	
32 93 43 00-0351 EA 14' - 16' Bursera Simaruba - Gumbo Limbo.....	98.86	
32 93 43 00-0352 EA 17' - 18' Bursera Simaruba - Gumbo Limbo.....	128.51	
32 93 43 00-0353 EA 19' - 20' Bursera Simaruba - Gumbo Limbo.....	142.79	
32 93 43 00-0354 EA 21' - 22' Bursera Simaruba - Gumbo Limbo.....	169.15	
32 93 43 00-0355 EA 1-1/2" Caliper Juglans californica - California Walnut	114.62	
32 93 43 00-0356 EA 2" Caliper Juglans californica - California Walnut	133.72	
32 93 43 00-0357 EA 2-1/2" Caliper Juglans californica - California Walnut	167.15	
32 93 43 00-0358 EA 3" Caliper Juglans californica - California Walnut	210.13	
32 93 43 00-0359 EA 3-1/2" Caliper Juglans californica - California Walnut	257.89	
32 93 43 00-0360 EA 4" Caliper Juglans californica - California Walnut	310.42	
32 93 43 00-0361 EA 4-1/2" Caliper Juglans californica - California Walnut	358.17	
32 93 43 00-0362 EA 5" Caliper Juglans californica - California Walnut	405.93	
32 93 43 00-0363 EA 5 Gallon Koelreuteria Paniculata - Goldenrain Tree	12.93	
32 93 43 00-0364 EA 15 Gallon Koelreuteria Paniculata - Goldenrain Tree	32.32	
32 93 43 00-0365 EA 20 Gallon Koelreuteria Paniculata - Goldenrain Tree	64.65	
32 93 43 00-0366 EA 55 Gallon Koelreuteria Paniculata - Goldenrain Tree	84.04	
32 93 43 00-0367 EA 1-1/2" To 2" Caliper Koelreuteria Paniculata - Goldenrain Tree	61.41	
32 93 43 00-0368 EA 2" To 2-1/2" Caliper Koelreuteria Paniculata - Goldenrain Tree	74.34	
32 93 43 00-0369 EA 2-1/2" To 3" Caliper Koelreuteria Paniculata - Goldenrain Tree	103.43	
32 93 43 00-0370 EA 1-1/2" Caliper Liquidambar styraciflua - American Sweetgum	152.82	
32 93 43 00-0371 EA 2" Caliper Liquidambar styraciflua - American Sweetgum	191.03	
32 93 43 00-0372 EA 2-1/2" Caliper Liquidambar styraciflua - American Sweetgum	238.78	
32 93 43 00-0373 EA 3" Caliper Liquidambar styraciflua - American Sweetgum	286.54	
32 93 43 00-0374 EA 3-1/2" Caliper Liquidambar styraciflua - American Sweetgum	334.30	
32 93 43 00-0375 EA 1-1/2" Caliper Liriodendron tulipifera - Tulip Tree	152.82	
32 93 43 00-0376 EA 2" Caliper Liriodendron tulipifera - Tulip Tree	210.13	
32 93 43 00-0377 EA 2-1/2" Caliper Liriodendron tulipifera - Tulip Tree	248.33	
32 93 43 00-0378 EA 3" Caliper Liriodendron tulipifera - Tulip Tree	286.54	
32 93 43 00-0379 EA 3-1/2" Caliper Liriodendron tulipifera - Tulip Tree	324.74	
32 93 43 00-0380 EA 8' Clump Form Liriodendron tulipifera - Tulip Tree.....	114.62	
32 93 43 00-0381 EA 10' Clump Form Liriodendron tulipifera - Tulip Tree.....	205.35	
32 93 43 00-0382 EA 12' Clump Form Liriodendron tulipifera - Tulip Tree	248.33	
32 93 43 00-0383 EA 1-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	152.82	
32 93 43 00-0384 EA 2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	191.03	
32 93 43 00-0385 EA 2-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	238.78	
32 93 43 00-0386 EA 3" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	286.54	
32 93 43 00-0387 EA 3-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	334.30	
32 93 43 00-0388 EA 4' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	66.86	
32 93 43 00-0389 EA 5' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	76.41	
32 93 43 00-0390 EA 6' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	90.74	
32 93 43 00-0391 EA 7' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	114.62	
32 93 43 00-0392 EA 8' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	143.27	
32 93 43 00-0393 EA 30" Box Platanus Occidentalis - Buttonwood Sycamore.....	207.48	
32 93 43 00-0394 EA 36" Box Platanus Occidentalis - Buttonwood Sycamore.....	301.79	
32 93 43 00-0395 EA 42" Box Platanus occidentalis - Buttonwood Sycamore.....	448.93	
32 93 43 00-0396 EA 1-1/2" To 2" Caliper Platanus occidentalis - Buttonwood Sycamore	69.42	
32 93 43 00-0397 EA 2" To 2-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore	83.00	
32 93 43 00-0398 EA 2-1/2" To 3" Caliper Platanus occidentalis - Buttonwood Sycamore	113.17	
32 93 43 00-0399 EA 3" To 3-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore	137.34	
32 93 43 00-0400 EA 8' To 10' Platanus occidentalis - Green Or Silver Buttonwood.....	57.12	
32 93 43 00-0401 EA 10' To 12' Platanus occidentalis - Green Or Silver Buttonwood.....	71.40	
32 93 43 00-0402 EA 12' To 14' Platanus occidentalis - Green Or Silver Buttonwood.....	126.32	
32 93 43 00-0403 EA 16' To 18' Platanus occidentalis - Green Or Silver Buttonwood.....	181.24	
32 93 43 00-0404 EA 2" Caliper Platanus x acerifolia & cvs - London Planetree.....	114.62	
32 93 43 00-0405 EA 2-1/2" Caliper Platanus x acerifolia & cvs - London Planetree.....	138.49	
32 93 43 00-0406 EA 3" Caliper Platanus x acerifolia & cvs - London Planetree.....	167.15	
32 93 43 00-0407 EA 3-1/2" Caliper Platanus x acerifolia & cvs - London Planetree.....	200.58	
32 93 43 00-0408 EA 4" Caliper Platanus x acerifolia & cvs - London Planetree.....	238.78	
32 93 43 00-0409 EA 2" Caliper Populus alba & cvs - White Poplar	114.62	
32 93 43 00-0410 EA 2-1/2" Caliper Populus alba & cvs - White Poplar.....	133.72	
32 93 43 00-0411 EA 3" Caliper Populus alba & cvs - White Poplar	152.82	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0412	EA	3-1/2" Caliper Populus alba & cvs - White Poplar	181.47
32 93 43 00-0413	EA	4" Caliper Populus alba & cvs - White Poplar	200.58
32 93 43 00-0414	EA	4-1/2" Caliper Populus alba & cvs - White Poplar	229.23
32 93 43 00-0415	EA	2" Caliper Populus deltoides & cvs - Eastern Cottonwood	105.06
32 93 43 00-0416	EA	2-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood	138.49
32 93 43 00-0417	EA	3" Caliper Populus deltoides & cvs - Eastern Cottonwood	167.15
32 93 43 00-0418	EA	3-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood	200.58
32 93 43 00-0419	EA	4" Caliper Populus deltoides & cvs - Eastern Cottonwood	238.78
32 93 43 00-0420	EA	2" Caliper Quercus palustris - Pin Oak	105.06
32 93 43 00-0421	EA	2-1/2" Caliper Quercus palustris - Pin Oak	143.27
32 93 43 00-0422	EA	3" Caliper Quercus palustris - Pin Oak	186.25
32 93 43 00-0423	EA	3-1/2" Caliper Quercus palustris - Pin Oak	214.90
32 93 43 00-0424	EA	4" Caliper Quercus palustris - Pin Oak	248.33
32 93 43 00-0425	EA	4-1/2" Caliper Quercus palustris - Pin Oak	281.76
32 93 43 00-0426	EA	5" Caliper Quercus palustris - Pin Oak	310.42
32 93 43 00-0427	EA	2" Caliper Quercus shumardii - Shumard Oak	162.37
32 93 43 00-0428	EA	2-1/2" Caliper Quercus shumardii - Shumard Oak	205.35
32 93 43 00-0429	EA	3" Caliper Quercus shumardii - Shumard Oak	238.78
32 93 43 00-0430	EA	3-1/2" Caliper Quercus shumardii - Shumard Oak	286.54
32 93 43 00-0431	EA	4" Caliper Quercus shumardii - Shumard Oak	334.30
32 93 43 00-0432	EA	4-1/2" Caliper Quercus shumardii - Shumard Oak	382.05
32 93 43 00-0433	EA	5" Caliper Quercus shumardii - Shumard Oak	429.81
32 93 43 00-0434	EA	24" Box Salix babylonica - Weeping Willow	120.71
32 93 43 00-0435	EA	36" Box Salix babylonica - Weeping Willow	301.79
32 93 43 00-0436	EA	1-1/2" To 2" Caliper Salix babylonica - Weeping Willow	69.42
32 93 43 00-0437	EA	2" To 2-1/2" Caliper Salix babylonica - Weeping Willow	83.00
32 93 43 00-0438	EA	2-1/2" To 3" Caliper Salix babylonica - Weeping Willow	90.54
32 93 43 00-0439	EA	2' Thuja occidentalis - American Arborvitae	16.37
32 93 43 00-0440	EA	2-1/2' Thuja occidentalis - American Arborvitae	17.68
32 93 43 00-0441	EA	3' Thuja occidentalis - American Arborvitae	25.26
32 93 43 00-0442	EA	4' Thuja occidentalis - American Arborvitae	34.71
32 93 43 00-0443	EA	5' Thuja occidentalis - American Arborvitae	48.33
32 93 43 00-0444	EA	6' Thuja occidentalis - American Arborvitae	67.00
32 93 43 00-0445	EA	7' Thuja occidentalis - American Arborvitae	81.28
32 93 43 00-0446	EA	8' Thuja occidentalis - American Arborvitae	114.23
32 93 43 00-0447	EA	2" Caliper Tilia cordata & cvs - Littleleaf Linden	120.11
32 93 43 00-0448	EA	2-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	145.08
32 93 43 00-0449	EA	3" Caliper Tilia cordata & cvs - Littleleaf Linden	167.15
32 93 43 00-0450	EA	3-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	205.35
32 93 43 00-0451	EA	4" Caliper Tilia cordata & cvs - Littleleaf Linden	234.01
32 93 43 00-0452	EA	4-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	262.66
32 93 43 00-0453	EA	5" Caliper Tilia cordata & cvs - Littleleaf Linden	291.31
32 93 43 00-0454	EA	2" Caliper Ulmus x `Homestead` - Homestead Hybrid Elm	133.72
32 93 43 00-0455	EA	2-1/2" Caliper Ulmus x `Homestead` - Homestead Hybrid Elm	152.82
32 93 43 00-0456	EA	3" Caliper Ulmus x `Homestead` - Homestead Hybrid Elm	167.15
32 93 43 00-0457	EA	3-1/2" Caliper Ulmus x `Homestead` - Homestead Hybrid Elm	181.47
32 93 43 00-0458	EA	4" Caliper Ulmus x `Homestead` - Homestead Hybrid Elm	200.58
32 93 43 00-0459	EA	4-1/2" Caliper Ulmus x `Homestead` - Homestead Hybrid Elm	238.78
32 93 43 00-0460	EA	5" Caliper Ulmus x `Homestead` - Homestead Hybrid Elm	281.76
32 93 43 00-0461	EA	2" Caliper Ulmus x `Pioneer` - Pioneer Hybrid Elm	152.82
32 93 43 00-0462	EA	2-1/2" Caliper Ulmus x `Pioneer` - Pioneer Hybrid Elm	167.15
32 93 43 00-0463	EA	3" Caliper Ulmus x `Pioneer` - Pioneer Hybrid Elm	181.47
32 93 43 00-0464	EA	3-1/2" Caliper Ulmus x `Pioneer` - Pioneer Hybrid Elm	200.58
32 93 43 00-0465	EA	4" Caliper Ulmus x `Pioneer` - Pioneer Hybrid Elm	238.78
32 93 43 00-0466	EA	4-1/2" Caliper Ulmus x `Pioneer` - Pioneer Hybrid Elm	281.76
32 93 43 00-0467	EA	5" Caliper Ulmus x `Pioneer` - Pioneer Hybrid Elm	324.74
32 93 43 00-0468	EA	2" Caliper Ulmus x `Regal` - Regal Hybrid Elm	152.82
32 93 43 00-0469	EA	2-1/2" Mary-Louise Parker Ulmus x `Regal` - Regal Hybrid Elm	167.15
32 93 43 00-0470	EA	3" Caliper Ulmus x `Regal` - Regal Hybrid Elm	181.47
32 93 43 00-0471	EA	3-1/2" Caliper Ulmus x `Regal` - Regal Hybrid Elm	200.58
32 93 43 00-0472	EA	4" Caliper Ulmus x `Regal` - Regal Hybrid Elm	238.78
32 93 43 00-0473	EA	4-1/2" Caliper Ulmus x `Regal` - Regal Hybrid Elm	281.76
32 93 43 00-0474	EA	5" Caliper Ulmus x `Regal` - Regal Hybrid Elm	324.74
32 93 43 00-0475	EA	1-1/2" To 2" Caliper Platanus acerifolia "Bloodgold" - London Plane	385.43
32 93 43 00-0476	EA	2" To 2-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane	687.97
32 93 43 00-0477	EA	2-1/2" To 3" Caliper Platanus acerifolia "Bloodgold" - London Plane	1,007.09
32 93 43 00-0478	EA	3" To 3-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane	1,251.61
32 93 43 00-0479	EA	3-1/2" To 4" Caliper Platanus acerifolia "Bloodgold" - London Plane	1,620.46
32 93 43 00-0480	EA	4" To 5" Caliper Platanus acerifolia "Bloodgold" - London Plane	1,844.26
32 93 43 00-0481	EA	24" Box Platanus acerifolia "Bloodgold" - London Plane	484.89
32 93 43 00-0482	EA	1-1/2" Caliper Quercus suber - Cork Oak	580.22
32 93 43 00-0483	EA	2" Caliper Quercus suber - Cork Oak	804.01
32 93 43 00-0484	EA	2-1/2" Caliper Quercus suber - Cork Oak	1,027.81
32 93 43 00-0485	EA	3" Caliper Quercus suber - Cork Oak	1,284.76
32 93 43 00-0486	EA	3-1/2" Caliper Quercus suber - Cork Oak	1,927.15
32 93 43 00-0487	EA	4" Caliper Quercus suber - Cork Oak	2,486.64
32 93 43 00-0488	EA	4-1/2" Caliper Quercus suber - Cork Oak	3,232.63
32 93 43 00-0489	EA	1-1/2" Caliper Quercus ilex - Holly Oak	642.38
32 93 43 00-0490	EA	2" Caliper Quercus ilex - Holly Oak	866.18
32 93 43 00-0491	EA	2-1/2" Caliper Quercus ilex - Holly Oak	1,060.97
32 93 43 00-0492	EA	3" Caliper Quercus ilex - Holly Oak	1,284.76



		Exterior Improvements	32
		Planting	32 90
		Plants	32 93

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 43 00-0493	EA		3-1/2" Caliper Quercus ilex - Holly Oak	1,927.15	
32 93 43 00-0494	EA		4" Caliper Quercus ilex - Holly Oak	2,486.64	

32 93 43 00-0495

Evergreen Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0496	EA		2' To 3' Cedrus atlantica - Blue Atlas Cedar	15.22	
32 93 43 00-0497	EA		3' To 4' Cedrus atlantica - Blue Atlas Cedar	24.47	
32 93 43 00-0498	EA		4' To 5' Cedrus atlantica - Blue Atlas Cedar	36.35	
32 93 43 00-0499	EA		5' To 6' Cedrus atlantica - Blue Atlas Cedar	48.90	
32 93 43 00-0500	EA		7' To 8' Cedrus atlantica - Blue Atlas Cedar	69.43	
32 93 43 00-0501	EA		5 Gallon Cedrus deodara - Indian Cedar	8.71	
32 93 43 00-0502	EA		6' To 8' Cedrus deodara - Indian Cedar	62.82	
32 93 43 00-0503	EA		8' To 10' Cedrus deodara - Indian Cedar	72.73	
32 93 43 00-0504	EA		10' To 12' Cedrus deodara - Indian Cedar	99.17	
32 93 43 00-0505	EA		12' To 14' Cedrus deodara - Indian Cedar	128.91	
32 93 43 00-0506	EA		14' To 16' Cedrus deodara - Indian Cedar	165.29	
32 93 43 00-0507	EA		15" To 18" Chamaecyparis obtusa - Compact Hinoki Cypress	19.64	
32 93 43 00-0508	EA		18" To 24" Chamaecyparis obtusa - Compact Hinoki Cypress	29.46	
32 93 43 00-0509	EA		2' To 3' Chamaecyparis obtusa - Compact Hinoki Cypress	45.82	
32 93 43 00-0510	EA		3' To 4' Chamaecyparis obtusa - Compact Hinoki Cypress	78.55	
32 93 43 00-0511	EA		5 Gallon Cupressocyparis leylandii - Leyland Cypress	10.80	
32 93 43 00-0512	EA		15 Gallon Cupressocyparis leylandii - Leyland Cypress	43.21	
32 93 43 00-0513	EA		4' To 5' Cupressocyparis leylandii - Leyland Cypress	18.91	
32 93 43 00-0514	EA		5' To 6' Cupressocyparis leylandii - Leyland Cypress	24.31	
32 93 43 00-0515	EA		6' To 7' Cupressocyparis leylandii - Leyland Cypress	37.81	
32 93 43 00-0516	EA		24" Box Cupressocyparis leylandii - Leyland Cypress	91.83	
32 93 43 00-0517	EA		1 Gallon Cupressus macrocarpa - Monterey Cypress	1.97	
32 93 43 00-0518	EA		5 Gallon Cupressus macrocarpa - Monterey Cypress	8.87	
32 93 43 00-0519	EA		15 Gallon Cupressus macrocarpa - Monterey Cypress	29.55	
32 93 43 00-0520	EA		5 Gallon Cupressus sempervirens - Italian Cypress	10.17	
32 93 43 00-0521	EA		15 Gallon Cupressus sempervirens - Italian Cypress	27.96	
32 93 43 00-0522	EA		1 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	2.99	
32 93 43 00-0523	EA		2 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	5.85	
32 93 43 00-0524	EA		3 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	7.24	
32 93 43 00-0525	EA		5 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	8.52	
32 93 43 00-0526	EA		1 Gallon Juniperus - Blue Sargent Juniper	2.99	
32 93 43 00-0527	EA		2 Gallon Juniperus - Blue Sargent Juniper	5.85	
32 93 43 00-0528	EA		3 Gallon Juniperus - Blue Sargent Juniper	7.24	
32 93 43 00-0529	EA		5 Gallon Juniperus - Blue Sargent Juniper	8.52	
32 93 43 00-0530	EA		5 Gallon Juniperus - Compact Pfitzer Juniper	8.52	
32 93 43 00-0531	EA		15" To 18" Juniperus - Compact Pfitzer Juniper	9.21	
32 93 43 00-0532	EA		18" To 24" Juniperus - Compact Pfitzer Juniper	11.12	
32 93 43 00-0533	EA		2' To 2 1/2' Juniperus - Compact Pfitzer Juniper	16.52	
32 93 43 00-0534	EA		2-1/2' To 3' Juniperus - Compact Pfitzer Juniper	19.13	
32 93 43 00-0535	EA		5' To 6' Juniperus - Fairview Juniper	28.49	
32 93 43 00-0536	EA		1 Gallon Juniperus - Hollywood Juniper	3.81	
32 93 43 00-0537	EA		5 Gallon Juniperus - Hollywood Juniper	10.61	
32 93 43 00-0538	EA		15 Gallon Juniperus - Hollywood Juniper	44.99	
32 93 43 00-0539	EA		4' To 5' Juniperus - Hollywood Juniper	29.74	
32 93 43 00-0540	EA		5' To 6' Juniperus - Hollywood Juniper	38.32	
32 93 43 00-0541	EA		1 Gallon Juniperus - Parson's Juniper	2.99	
32 93 43 00-0542	EA		2 Gallon Juniperus - Parson's Juniper	5.91	
32 93 43 00-0543	EA		3 Gallon Juniperus - Parson's Juniper	7.31	
32 93 43 00-0544	EA		5 Gallon Juniperus - Parson's Juniper	8.64	
32 93 43 00-0545	EA		5 Gallon Juniperus - Skyrocket Juniper	10.68	
32 93 43 00-0546	EA		15 Gallon Juniperus - Skyrocket Juniper	45.44	
32 93 43 00-0547	EA		2' To 3' Juniperus - Skyrocket Juniper	16.01	
32 93 43 00-0548	EA		3' To 4' Juniperus - Skyrocket Juniper	22.69	
32 93 43 00-0549	EA		4' To 5' Juniperus - Skyrocket Juniper	30.06	
32 93 43 00-0550	EA		5' To 6' Juniperus - Skyrocket Juniper	38.77	
32 93 43 00-0551	EA		6' To 8' Juniperus - Skyrocket Juniper	50.08	
32 93 43 00-0552	EA		1 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	2.99	
32 93 43 00-0553	EA		2 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	5.88	
32 93 43 00-0554	EA		3 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	7.21	
32 93 43 00-0555	EA		5 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	8.55	
32 93 43 00-0556	EA		1 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	2.99	
32 93 43 00-0557	EA		2 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	5.88	
32 93 43 00-0558	EA		3 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	7.21	
32 93 43 00-0559	EA		5 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	8.55	
32 93 43 00-0560	EA		3' Pinus sylvestris - Scotch Pine	27.76	
32 93 43 00-0561	EA		4' Pinus sylvestris - Scotch Pine	38.53	
32 93 43 00-0562	EA		5' Pinus sylvestris - Scotch Pine	54.08	
32 93 43 00-0563	EA		6' Pinus sylvestris - Scotch Pine	75.04	
32 93 43 00-0564	EA		7' Pinus sylvestris - Scotch Pine	91.94	
32 93 43 00-0565	EA		8' Pinus sylvestris - Scotch Pine	129.80	
32 93 43 00-0566	EA		9' Pinus sylvestris - Scotch Pine	164.78	
32 93 43 00-0567	EA		10' Pinus sylvestris - Scotch Pine	190.13	
32 93 43 00-0568	EA		12' Pinus sylvestris - Scotch Pine	223.94	
32 93 43 00-0569	EA		14' Pinus sylvestris - Scotch Pine	253.51	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0570	EA	16' Pinus sylvestris - Scotch Pine.....	295.77	
32 93 43 00-0571	EA	1 Gallon Pinus thunbergiana - Japanese Black Pine.....	2.99	
32 93 43 00-0572	EA	5 Gallon Pinus thunbergiana - Japanese Black Pine.....	10.61	
32 93 43 00-0573	EA	15 Gallon Pinus thunbergiana - Japanese Black Pine.....	34.38	
32 93 43 00-0574	EA	2' To 3' Pinus thunbergiana - Japanese Black Pine.....	14.55	
32 93 43 00-0575	EA	3' To 4' Pinus thunbergiana - Japanese Black Pine.....	18.49	
32 93 43 00-0576	EA	4' To 5' Pinus thunbergiana - Japanese Black Pine.....	27.77	
32 93 43 00-0577	EA	5' To 6' Pinus thunbergiana - Japanese Black Pine.....	54.21	
32 93 43 00-0578	EA	6' To 7' Pinus Thunbergiana - Japanese Black Pine.....	60.82	
32 93 43 00-0579	EA	7' To 8' Pinus thunbergiana - Japanese Black Pine.....	76.01	
32 93 43 00-0580	EA	6' Pinus flexilis & cvs - Limber Pine.....	105.63	
32 93 43 00-0581	EA	7' Pinus flexilis & cvs - Limber Pine.....	122.53	
32 93 43 00-0582	EA	8' Pinus flexilis & cvs - Limber Pine.....	152.11	
32 93 43 00-0583	EA	9' Pinus flexilis & cvs - Limber Pine.....	185.91	
32 93 43 00-0584	EA	10' Pinus flexilis & cvs - Limber Pine.....	211.26	
32 93 43 00-0585	EA	1 Gallon Pinus mugo - Mugho Pine.....	3.94	
32 93 43 00-0586	EA	2 Gallon Pinus mugo - Mugho Pine.....	8.32	
32 93 43 00-0587	EA	3 Gallon Pinus mugo - Mugho Pine.....	10.42	
32 93 43 00-0588	EA	5 Gallon Pinus mugo - Mugho Pine.....	13.22	
32 93 43 00-0589	EA	12" To 15" Spread Pinus mugo - Mugho Pine.....	10.23	
32 93 43 00-0590	EA	15" To 18" Spread Pinus mugo - Mugho Pine.....	12.20	
32 93 43 00-0591	EA	18" To 24" Spread Pinus mugo - Mugho Pine.....	16.52	
32 93 43 00-0592	EA	2' To 2-1/2' Spread Pinus mugo - Mugho Pine.....	23.13	
32 93 43 00-0593	EA	2-1/2' To 3' Spread Pinus mugo - Mugho Pine.....	29.74	
32 93 43 00-0594	EA	3' To 3-1/2' Spread Pinus mugo - Mugho Pine.....	37.05	
32 93 43 00-0595	EA	3-1/2' To 4' Spread Pinus mugo - Mugho Pine.....	44.99	
32 93 43 00-0596	EA	6' Pinus nigra - Austrian Pine.....	105.63	
32 93 43 00-0597	EA	7' Pinus nigra - Austrian Pine.....	126.76	
32 93 43 00-0598	EA	8' Pinus nigra - Austrian Pine.....	164.78	
32 93 43 00-0599	EA	9' Pinus nigra - Austrian Pine.....	190.13	
32 93 43 00-0600	EA	10' Pinus nigra - Austrian Pine.....	223.94	
32 93 43 00-0601	EA	12' Pinus nigra - Austrian Pine.....	253.51	
32 93 43 00-0602	EA	14' Pinus nigra - Austrian Pine.....	283.09	
32 93 43 00-0603	EA	16' Pinus nigra - Austrian Pine.....	321.12	
32 93 43 00-0604	EA	1 Gallon Podocarpus - Chinese Podocarpus.....	1.97	
32 93 43 00-0605	EA	3 Gallon Podocarpus - Chinese Podocarpus.....	4.58	
32 93 43 00-0606	EA	7 Gallon Podocarpus - Chinese Podocarpus.....	13.22	
32 93 43 00-0607	EA	15 Gallon Podocarpus - Chinese Podocarpus.....	21.48	
32 93 43 00-0608	EA	4' To 5' Podocarpus - Chinese Podocarpus.....	33.05	
32 93 43 00-0609	EA	5' To 6' Sequoia sempervirens - Dawn Redwood.....	41.31	
32 93 43 00-0610	EA	6' To 8' Sequoia sempervirens - Dawn Redwood.....	55.77	
32 93 43 00-0611	EA	8' To 10' Sequoia sempervirens - Dawn Redwood.....	68.16	
32 93 43 00-0612	EA	3' To 4' Thuja occidentalis 'Wareana' - Siberian Arborvitae.....	7.96	
32 93 43 00-0613	EA	3' To 4' Thuja occidentalis 'Woodwardii' - Woodward Arborvitae.....	34.11	
32 93 43 00-0614	EA	6' Cedrus decurrens - Incese Cedar.....	70.94	
32 93 43 00-0615	EA	8' Cedrus decurrens - Incese Cedar.....	146.74	
32 93 43 00-0616	EA	10' Cedrus decurrens - Incese Cedar.....	194.36	
32 93 43 00-0617	EA	12' Cedrus decurrens - Incese Cedar.....	257.53	
32 93 43 00-0618	EA	6' Melaleuca linarifolia - Flaxleaf Paperbark.....	204.08	
32 93 43 00-0619	EA	8' Melaleuca linarifolia - Flaxleaf Paperbark.....	272.10	
32 93 43 00-0620	EA	10' Melaleuca linarifolia - Flaxleaf Paperbark.....	340.13	
32 93 43 00-0621	EA	12' Melaleuca linarifolia - Flaxleaf Paperbark.....	408.16	
32 93 43 00-0622	EA	24" Box Melaleuca linarifolia - Flaxleaf Paperbark.....	120.02	
32 93 43 00-0623	EA	6' Melaleuca quinquenervia - Cajeput Tree.....	204.08	
32 93 43 00-0624	EA	8' Melaleuca quinquenervia - Cajeput Tree.....	272.10	
32 93 43 00-0625	EA	10' Melaleuca quinquenervia - Cajeput Tree.....	340.13	
32 93 43 00-0626	EA	12' Melaleuca quinquenervia - Cajeput Tree.....	408.16	
32 93 43 00-0627	EA	24" Box Melaleuca quinquenervia - Cajeput Tree.....	113.70	
32 93 43 00-0628	EA	30" Box Melaleuca quinquenervia - Cajeput Tree.....	286.68	
32 93 43 00-0629	EA	36" Box Melaleuca quinquenervia - Cajeput Tree.....	451.89	
32 93 43 00-0630	EA	4' Metrosideros excelsus - New Zealand Christmas Tree.....	60.25	
32 93 43 00-0631	EA	5' Metrosideros excelsus - New Zealand Christmas Tree.....	81.63	
32 93 43 00-0632	EA	6' Metrosideros excelsus - New Zealand Christmas Tree.....	138.97	
32 93 43 00-0633	EA	8' Metrosideros excelsus - New Zealand Christmas Tree.....	172.01	
32 93 43 00-0634	EA	24" Box Metrosideros excelsus - New Zealand Christmas Tree.....	151.60	
32 93 43 00-0635	EA	6' Pinus canariensis - Canary Island Pine.....	233.23	
32 93 43 00-0636	EA	8' Pinus canariensis - Canary Island Pine.....	310.98	
32 93 43 00-0637	EA	10' Pinus canariensis - Canary Island Pine.....	388.72	
32 93 43 00-0638	EA	12' Pinus canariensis - Canary Island Pine.....	466.46	
32 93 43 00-0639	EA	24" Box Pinus canariensis - Canary Island Pine.....	138.97	
32 93 43 00-0640	EA	6' Pinus pinea - Italian Stone Pine.....	233.23	
32 93 43 00-0641	EA	8' Pinus pinea - Italian Stone Pine.....	310.98	
32 93 43 00-0642	EA	10' Pinus pinea - Italian Stone Pine.....	388.72	
32 93 43 00-0643	EA	12' Pinus pinea - Italian Stone Pine.....	466.46	
32 93 43 00-0644	EA	6' Pittosporum undulatum - Victorian Box.....	128.28	
32 93 43 00-0645	EA	8' Pittosporum undulatum - Victorian Box.....	203.11	
32 93 43 00-0646	EA	10' Pittosporum undulatum - Victorian Box.....	267.24	
32 93 43 00-0647	EA	6' Podocarpus gracilior - African Fern Pine.....	242.95	
32 93 43 00-0648	EA	8' Podocarpus gracilior - African Fern Pine.....	320.69	
32 93 43 00-0649	EA	10' Podocarpus gracilior - African Fern Pine.....	408.16	
32 93 43 00-0650	EA	12' Podocarpus gracilior - African Fern Pine.....	485.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0651 EA 24" Box Podocarpus gracilior - African Fern Pine.....	113.70	
32 93 43 00-0652 EA 1 Gallon Podocarpus macrophyllus - Yew Pine.....	4.52	
32 93 43 00-0653 EA 3 Gallon Podocarpus macrophyllus - Yew Pine.....	10.59	
32 93 43 00-0654 EA 5 Gallon Podocarpus macrophyllus - Yew Pine.....	13.90	
32 93 43 00-0655 EA 15 Gallon Podocarpus macrophyllus - Yew Pine.....	60.25	
32 93 43 00-0656 EA 24" Box Podocarpus macrophyllus - Yew Pine.....	116.62	
32 93 43 00-0657 EA 24" Box Rhus lancea - African Sumac.....	120.02	
32 93 43 00-0658 EA 30" Box Rhus lancea - African Sumac.....	194.36	
32 93 43 00-0659 EA 8' Rhus lancea - African Sumac.....	291.54	
32 93 43 00-0660 EA 10' Rhus lancea - African Sumac.....	325.55	
32 93 43 00-0661 EA 12' Rhus lancea - African Sumac.....	388.72	

32 93 43 00-0662

Palm And Subtropical Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0663 EA 4' To 5' Archontophoenix cunninghamiana - King Palm.....	112.48	
32 93 43 00-0664 EA 6' To 8' Archontophoenix cunninghamiana - King Palm.....	174.97	
32 93 43 00-0665 EA 8' To 10' Archontophoenix cunninghamiana - King Palm.....	224.96	
32 93 43 00-0666 EA 10' To 12' Archontophoenix cunninghamiana - King Palm.....	299.94	
32 93 43 00-0667 EA 4' To 5' Arecastrum romanzoffianum - Queen Palm.....	85.21	
32 93 43 00-0668 EA 6' To 8' Arecastrum romanzoffianum - Queen Palm.....	119.30	
32 93 43 00-0669 EA 8' To 10' Arecastrum romanzoffianum - Queen Palm.....	153.38	
32 93 43 00-0670 EA 10' To 12' Arecastrum romanzoffianum - Queen Palm.....	187.46	
32 93 43 00-0671 EA 12' To 14' Arecastrum romanzoffianum - Queen Palm.....	227.23	
32 93 43 00-0672 EA 14' To 16' Arecastrum romanzoffianum - Queen Palm.....	284.04	
32 93 43 00-0673 EA 3' To 4' Chamaedorea radicalis - Dwarf Bamboo Palm.....	238.59	
32 93 43 00-0674 EA 5' To 6' Chamaedorea radicalis - Dwarf Bamboo Palm.....	374.93	
32 93 43 00-0675 EA 3' To 4' Chamaerops humilis - European Fan Palm.....	204.51	
32 93 43 00-0676 EA 5' To 6' Chamaerops humilis - European Fan Palm.....	272.68	
32 93 43 00-0677 EA 7' To 8' Chamaerops humilis - European Fan Palm.....	636.24	
32 93 43 00-0678 EA 9' To 10' Chamaerops humilis - European Fan Palm.....	1,090.70	
32 93 43 00-0679 EA 12' To 16' Cocos nucifera - Coconut Palm.....	479.16	
32 93 43 00-0680 EA 6' To 7' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	159.06	
32 93 43 00-0681 EA 8' To 10' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	318.12	
32 93 43 00-0682 EA 10' To 12' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	409.01	
32 93 43 00-0683 EA 12' To 14' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	568.08	
32 93 43 00-0684 EA 4' To 5' Rhapsis excelsa - Lady Palm.....	431.74	
32 93 43 00-0685 EA 6' To 7' Rhapsis excelsa - Lady Palm.....	613.52	
32 93 43 00-0686 EA 8' To 9' Roystonea regia - Royal Palm.....	347.66	
32 93 43 00-0687 EA 10' To 11' Roystonea regia - Royal Palm.....	424.92	
32 93 43 00-0688 EA 12' To 13' Roystonea regia - Royal Palm.....	502.18	
32 93 43 00-0689 EA 14' To 15' Roystonea regia - Royal Palm.....	579.44	
32 93 43 00-0690 EA 16' To 17' Roystonea regia - Royal Palm.....	656.69	
32 93 43 00-0691 EA 18' To 19' Roystonea regia - Royal Palm.....	733.95	
32 93 43 00-0692 EA 20' To 21' Roystonea regia - Royal Palm.....	811.21	
32 93 43 00-0693 EA 10' To 16' Sabal palmetto - Cabbage Palm.....	175.70	
32 93 43 00-0694 EA 6' To 7' Thrinax morrisii - Key Thatch Palm.....	477.18	
32 93 43 00-0695 EA 8' To 9' Thrinax morrisii - Key Thatch Palm.....	613.52	
32 93 43 00-0696 EA 10' To 11' Thrinax morrisii - Key Thatch Palm.....	749.86	
32 93 43 00-0697 EA 9' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	170.42	
32 93 43 00-0698 EA 11' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	284.04	
32 93 43 00-0699 EA 15' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	431.74	
32 93 43 00-0700 EA 17' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	488.54	
32 93 43 00-0701 EA 20' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	568.08	
32 93 43 00-0702 EA 4' To 5' Bauninia blakeana - Hong Kong Orchid.....	488.54	
32 93 43 00-0703 EA 6' Bauninia blakeana - Hong Kong Orchid.....	579.44	
32 93 43 00-0704 EA 8' Bauninia blakeana - Hong Kong Orchid.....	772.58	
32 93 43 00-0705 EA 10' Bauninia blakeana - Hong Kong Orchid.....	965.73	
32 93 43 00-0706 EA 4' To 5' Acacia baileyana - Bailey Acacia.....	454.46	
32 93 43 00-0707 EA 6' Acacia baileyana - Bailey Acacia.....	545.35	
32 93 43 00-0708 EA 8' Acacia baileyana - Bailey Acacia.....	636.24	
32 93 43 00-0709 EA 10' Acacia baileyana - Bailey Acacia.....	795.30	
32 93 43 00-0710 EA 6' Agonis flexuosa - Peppermint.....	272.68	
32 93 43 00-0711 EA 8' Agonis flexuosa - Peppermint.....	340.84	
32 93 43 00-0712 EA 10' Agonis flexuosa - Peppermint.....	409.01	
32 93 43 00-0713 EA 24" Box Agonis flexuosa - Peppermint.....	339.71	
32 93 43 00-0714 EA 6' Bauhinia purpurea - Purple Orchid Tree.....	613.52	
32 93 43 00-0715 EA 8' Bauhinia purpurea - Purple Orchid Tree.....	818.03	
32 93 43 00-0716 EA 10' Bauhinia purpurea - Purple Orchid Tree.....	1,022.54	
32 93 43 00-0717 EA 24" Box Bauhinia purpurea - Purple Orchid Tree.....	265.86	
32 93 43 00-0718 EA 6' Bauhinia variegata candida - White Orchid Tree.....	681.69	
32 93 43 00-0719 EA 8' Bauhinia variegata candida - White Orchid Tree.....	908.92	
32 93 43 00-0720 EA 10' Bauhinia variegata candida - White Orchid Tree.....	1,136.15	
32 93 43 00-0721 EA 6' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	613.52	
32 93 43 00-0722 EA 8' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	818.03	
32 93 43 00-0723 EA 10' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	1,022.54	
32 93 43 00-0724 EA 6' Eriobotrya deflexa - Bronze Loquat.....	613.52	
32 93 43 00-0725 EA 8' Eriobotrya deflexa - Bronze Loquat.....	818.03	
32 93 43 00-0726 EA 10' Eriobotrya deflexa - Bronze Loquat.....	1,022.54	
32 93 43 00-0727 EA 6' Eucalyptus erythrocorys - Red Cap Gum.....	613.52	

32 Exterior Improvements**32 90 Planting****32 93 Plants**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

32 93 43 00-0728	EA	8' Eucalyptus erythrocorys - Red Cap Gum	818.03	
32 93 43 00-0729	EA	10' Eucalyptus erythrocorys - Red Cap Gum	1,022.54	
32 93 43 00-0730	EA	6' Eucalyptus torquata - Coral Gum	613.52	
32 93 43 00-0731	EA	8' Eucalyptus torquata - Coral Gum	818.03	
32 93 43 00-0732	EA	10' Eucalyptus torquata - Coral Gum	1,022.54	
32 93 43 00-0733	EA	8' Fraxinus oxycarpa "Raywood" - Raywood Ash	636.24	
32 93 43 00-0734	EA	10' Fraxinus oxycarpa "Raywood" - Raywood Ash	863.47	
32 93 43 00-0735	EA	12' Fraxinus oxycarpa "Raywood" - Raywood Ash	1,067.98	
32 93 43 00-0736	EA	1 Gallon Washingtonia robusta - Mexican Fan Palm	4.98	
32 93 43 00-0737	EA	5 Gallon Washingtonia robusta - Mexican Fan Palm	15.48	
32 93 43 00-0738	EA	15 Gallon Washingtonia robusta - Mexican Fan Palm	54.19	
32 93 43 00-0739	EA	24" Box Washingtonia robusta - Mexican Fan Palm	176.94	
32 93 43 00-0740	EA	36" Box Washingtonia robusta - Mexican Fan Palm	470.01	
32 93 43 00-0741	EA	6' Washingtonia robusta - Mexican Fan Palm	613.52	
32 93 43 00-0742	EA	8' Washingtonia robusta - Mexican Fan Palm	818.03	
32 93 43 00-0743	EA	10' Washingtonia robusta - Mexican Fan Palm	1,022.54	
32 93 43 00-0744	EA	12' Washingtonia robusta - Mexican Fan Palm	1,227.04	
32 93 43 00-0745	EA	6' Olea europaea - Olive "Fruitless"	613.52	
32 93 43 00-0746	EA	8' Olea europaea - Olive "Fruitless"	818.03	
32 93 43 00-0747	EA	10' Olea europaea - Olive "Fruitless"	1,022.54	
32 93 43 00-0748	EA	12' Olea europaea - Olive "Fruitless"	1,227.04	
32 93 43 00-0749	EA	24" Box Olea europaea - Olive "Fruitless"	754.40	
32 93 43 00-0750	EA	6' Eucalyptus polyanthemus - Silver Dollar Gum	613.52	
32 93 43 00-0751	EA	8' Eucalyptus polyanthemus - Silver Dollar Gum	818.03	
32 93 43 00-0752	EA	10' Eucalyptus polyanthemus - Silver Dollar Gum	1,022.54	
32 93 43 00-0753	EA	6' Eucalyptus leucoxydon - White Ironbark	613.52	
32 93 43 00-0754	EA	8' Eucalyptus leucoxydon - White Ironbark	818.03	
32 93 43 00-0755	EA	10' Eucalyptus leucoxydon - White Ironbark	1,022.54	
32 93 43 00-0756	EA	12' Eucalyptus leucoxydon - White Ironbark	1,227.04	
32 93 43 00-0757	EA	6' Callistemon viminalis - Weeping Bottle Brush	613.52	
32 93 43 00-0758	EA	8' Callistemon viminalis - Weeping Bottle Brush	818.03	
32 93 43 00-0759	EA	10' Callistemon viminalis - Weeping Bottle Brush	1,022.54	
32 93 43 00-0760	EA	12' Callistemon viminalis - Weeping Bottle Brush	1,227.04	
32 93 43 00-0761	EA	6' Eucalyptus gunnii - Cider Gum	613.52	
32 93 43 00-0762	EA	8' Eucalyptus gunnii - Cider Gum	818.03	
32 93 43 00-0763	EA	10' Eucalyptus gunnii - Cider Gum	1,022.54	
32 93 43 00-0764	EA	6' Jacarandra acutifolia - Jacaranda	613.52	
32 93 43 00-0765	EA	8' Jacarandra acutifolia - Jacaranda	818.03	
32 93 43 00-0766	EA	10' Jacarandra acutifolia - Jacaranda	1,022.54	
32 93 43 00-0767	EA	24" Box Jacarandra acutifolia - Jacaranda	265.86	
32 93 43 00-0768	EA	5 Gallon Phoenix roebelenii - Pygmy Date Palm	18.94	
32 93 43 00-0769	EA	7 Gallon Phoenix roebelenii - Pygmy Date Palm	46.16	
32 93 43 00-0770	EA	15 Gallon Phoenix roebelenii - Pygmy Date Palm	69.84	
32 93 43 00-0771	EA	24" Box Phoenix roebelenii - Pygmy Date Palm	207.15	
32 93 43 00-0772	EA	5 Gallon Pistacia chinensis - Chinese Pistache	40.90	
32 93 43 00-0773	EA	15 Gallon Pistacia chinensis - Chinese Pistache	136.34	
32 93 43 00-0774	EA	24" Box Pistacia chinensis - Chinese Pistache	529.45	
32 93 43 00-0775	EA	36" Box Pistacia chinensis - Chinese Pistache	1,408.83	
32 93 43 00-0776	EA	48" Box Pistacia chinensis - Chinese Pistache	2,999.44	
32 93 43 00-0777	EA	5 Gallon Pyrus kawakamii - Evergreen Pear, Single	42.26	
32 93 43 00-0778	EA	15 Gallon Pyrus kawakamii - Evergreen Pear, Single	140.88	
32 93 43 00-0779	EA	24" Box Pyrus kawakamii - Evergreen Pear, Single	529.45	
32 93 43 00-0780	EA	30" Box Pyrus kawakamii - Evergreen Pear, Single	968.00	
32 93 43 00-0781	EA	36" Box Pyrus kawakamii - Evergreen Pear, Single	1,408.83	
32 93 43 00-0782	EA	5 Gallon Pyrus kawakamii - Evergreen Pear, Multi	42.26	
32 93 43 00-0783	EA	15 Gallon Pyrus kawakamii - Evergreen Pear, Multi	149.97	
32 93 43 00-0784	EA	24" Box Pyrus kawakamii - Evergreen Pear, Multi	545.35	
32 93 43 00-0785	EA	30" Box Pyrus kawakamii - Evergreen Pear, Multi	968.00	
32 93 43 00-0786	EA	36" Box Pyrus kawakamii - Evergreen Pear, Multi	1,408.83	

32 93 53 Planting Of Trees, Shrubs And Ground Cover (32 93)

Note: Includes moving plant(s) from truck or staging site to planting site, excavation of hole, placing plant in hole, backfill and compaction. Use appropriate gallon, height or caliper size to match with description from plant section.

32 93 53 00-0001 Planting Trees (32 93 53)

Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.

32 93 53 00-0002	EA	3" To 5" Bare Root Seedlings Tree Planting	1.09	
32 93 53 00-0003	EA	6" To 10" Bare Root Seedlings Tree Planting	1.76	
32 93 53 00-0004	EA	11" To 16" Bare Root Seedlings Tree Planting	2.19	
32 93 53 00-0005	EA	17" To 24" Bare Root Seedlings Tree Planting	3.51	
32 93 53 00-0006	EA	1 Gallon Container Tree Planting	17.53	
		For >10 To 25, Deduct	-0.88	
		For >25 To 50, Deduct	-2.19	
		For >50 To 100, Deduct	-3.51	
		For >100, Deduct	-5.26	
32 93 53 00-0007	EA	2 Gallon Container Tree Planting	24.55	
		For >10 To 25, Deduct	-1.23	
		For >25 To 50, Deduct	-3.07	
		For >50 To 100, Deduct	-4.91	
		For >100, Deduct	-7.37	



Exterior Improvements		32
Planting		32 90
Plants		32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 53 00-0008 EA 3 Gallon Container Tree Planting.....	31.56	
For >10 To 25, Deduct	-1.58	
For >25 To 50, Deduct	-3.95	
For >50 To 100, Deduct	-6.31	
For >100, Deduct	-9.47	
32 93 53 00-0009 EA 5 Gallon Container Tree Planting.....	52.59	
For >10 To 25, Deduct	-2.63	
For >25 To 50, Deduct	-6.57	
For >50 To 100, Deduct	-10.52	
For >100, Deduct	-15.78	
32 93 53 00-0010 EA 7 Gallon Container Tree Planting.....	70.13	
For >10 To 25, Deduct	-3.51	
For >25 To 50, Deduct	-8.77	
For >50 To 100, Deduct	-14.03	
For >100, Deduct	-21.04	
32 93 53 00-0011 EA 10 Gallon Container Tree Planting.....	91.16	
For >10 To 25, Deduct	-4.56	
For >25 To 50, Deduct	-11.40	
For >50 To 100, Deduct	-18.23	
For >100, Deduct	-27.35	
32 93 53 00-0012 EA 15 Gallon Container Tree Planting.....	129.74	
For >10 To 25, Deduct	-6.49	
For >25 To 50, Deduct	-16.22	
For >50 To 100, Deduct	-25.95	
For >100, Deduct	-38.92	
32 93 53 00-0013 EA 20 Gallon Container Tree Planting.....	213.89	
For >10 To 25, Deduct	-10.69	
For >25 To 50, Deduct	-26.74	
For >50 To 100, Deduct	-42.78	
For >100, Deduct	-64.17	
32 93 53 00-0014 EA 25 Gallon Container Tree Planting.....	277.01	
For >10 To 25, Deduct	-13.85	
For >25 To 50, Deduct	-34.63	
For >50 To 100, Deduct	-55.40	
For >100, Deduct	-83.10	
32 93 53 00-0015 EA 30 Gallon Container Tree Planting.....	333.11	
For >10 To 25, Deduct	-16.66	
For >25 To 50, Deduct	-41.64	
For >50 To 100, Deduct	-66.62	
For >100, Deduct	-99.93	
32 93 53 00-0016 EA 45 Gallon Container Tree Planting.....	413.76	
For >10 To 25, Deduct	-20.69	
For >25 To 50, Deduct	-51.72	
For >50 To 100, Deduct	-82.75	
For >100, Deduct	-124.13	
32 93 53 00-0017 EA 65 Gallon Container Tree Planting.....	490.90	
For >10 To 25, Deduct	-24.55	
For >25 To 50, Deduct	-61.36	
For >50 To 100, Deduct	-98.18	
For >100, Deduct	-147.27	
32 93 53 00-0018 EA 6' Balled And Burlapped Tree Planting.....	175.32	
For >10 To 25, Deduct	-8.77	
For >25 To 50, Deduct	-21.92	
For >50 To 100, Deduct	-35.06	
For >100, Deduct	-52.60	
32 93 53 00-0019 EA 7' Balled And Burlapped Tree Planting.....	233.53	
For >10 To 25, Deduct	-11.68	
For >25 To 50, Deduct	-29.19	
For >50 To 100, Deduct	-46.71	
For >100, Deduct	-70.06	
32 93 53 00-0020 EA 8' Balled And Burlapped Tree Planting.....	262.99	
For >10 To 25, Deduct	-13.15	
For >25 To 50, Deduct	-32.87	
For >50 To 100, Deduct	-52.60	
For >100, Deduct	-78.90	
32 93 53 00-0021 EA 10' Balled And Burlapped Tree Planting.....	306.81	
For >10 To 25, Deduct	-15.34	
For >25 To 50, Deduct	-38.35	
For >50 To 100, Deduct	-61.36	
For >100, Deduct	-92.04	
32 93 53 00-0022 EA 12' Balled And Burlapped Tree Planting.....	410.25	
For >10 To 25, Deduct	-20.51	
For >25 To 50, Deduct	-51.28	
For >50 To 100, Deduct	-82.05	
For >100, Deduct	-123.08	
32 93 53 00-0023 EA 14' Balled And Burlapped Tree Planting.....	469.87	
For >10 To 25, Deduct	-23.49	
For >25 To 50, Deduct	-58.73	
For >50 To 100, Deduct	-93.97	
For >100, Deduct	-140.96	
32 93 53 00-0024 EA 16' Balled And Burlapped Tree Planting.....	569.80	
For >10 To 25, Deduct	-28.49	
For >25 To 50, Deduct	-71.23	
For >50 To 100, Deduct	-113.96	
For >100, Deduct	-170.94	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 53 00-0025 EA 18' Balled And Burlapped Tree Planting	683.76	
For >10 To 25, Deduct	-34.19	
For >25 To 50, Deduct	-85.47	
For >50 To 100, Deduct	-136.75	
For >100, Deduct	-205.13	
32 93 53 00-0026 EA 20' Balled And Burlapped Tree Planting	788.95	
For >10 To 25, Deduct	-39.45	
For >25 To 50, Deduct	-98.62	
For >50 To 100, Deduct	-157.79	
For >100, Deduct	-236.69	
32 93 53 00-0027 EA 1-1/2" Caliper Balled And Burlapped Tree Planting	262.99	
For >10 To 25, Deduct	-13.15	
For >25 To 50, Deduct	-32.87	
For >50 To 100, Deduct	-52.60	
For >100, Deduct	-78.90	
32 93 53 00-0028 EA 2" Caliper Balled And Burlapped Tree Planting	306.81	
For >10 To 25, Deduct	-15.34	
For >25 To 50, Deduct	-38.35	
For >50 To 100, Deduct	-61.36	
For >100, Deduct	-92.04	
32 93 53 00-0029 EA 2-1/2" Caliper Balled And Burlapped Tree Planting	412.01	
For >10 To 25, Deduct	-20.60	
For >25 To 50, Deduct	-51.50	
For >50 To 100, Deduct	-82.40	
For >100, Deduct	-123.60	
32 93 53 00-0030 EA 3" Caliper Balled And Burlapped Tree Planting	473.37	
For >10 To 25, Deduct	-23.67	
For >25 To 50, Deduct	-59.17	
For >50 To 100, Deduct	-94.67	
For >100, Deduct	-142.01	
32 93 53 00-0031 EA 3-1/2" Caliper Balled And Burlapped Tree Planting	525.97	
For >10 To 25, Deduct	-26.30	
For >25 To 50, Deduct	-65.75	
For >50 To 100, Deduct	-105.19	
For >100, Deduct	-157.79	
32 93 53 00-0032 EA 4" Caliper Balled And Burlapped Tree Planting	603.11	
For >10 To 25, Deduct	-30.16	
For >25 To 50, Deduct	-75.39	
For >50 To 100, Deduct	-120.62	
For >100, Deduct	-180.93	
32 93 53 00-0033 Planting Shrubs (32 93 53)		
Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.		
32 93 53 00-0034 EA 1 Gallon Container Shrub Planting	14.91	
For >10 To 25, Deduct	-0.75	
For >25 To 50, Deduct	-1.86	
For >50 To 100, Deduct	-2.98	
For >100, Deduct	-4.47	
32 93 53 00-0035 EA 2 Gallon Container Shrub Planting	21.04	
For >10 To 25, Deduct	-1.05	
For >25 To 50, Deduct	-2.63	
For >50 To 100, Deduct	-4.21	
For >100, Deduct	-6.31	
32 93 53 00-0036 EA 3 Gallon Container Shrub Planting	26.30	
For >10 To 25, Deduct	-1.32	
For >25 To 50, Deduct	-3.29	
For >50 To 100, Deduct	-5.26	
For >100, Deduct	-7.89	
32 93 53 00-0037 EA 4 Gallon Container Shrub Planting	35.07	
For >10 To 25, Deduct	-1.75	
For >25 To 50, Deduct	-4.38	
For >50 To 100, Deduct	-7.01	
For >100, Deduct	-10.52	
32 93 53 00-0038 EA 5 Gallon Container Shrub Planting	43.83	
For >10 To 25, Deduct	-2.19	
For >25 To 50, Deduct	-5.48	
For >50 To 100, Deduct	-8.77	
For >100, Deduct	-13.15	
32 93 53 00-0039 EA 7 Gallon Container Shrub Planting	59.61	
For >10 To 25, Deduct	-2.98	
For >25 To 50, Deduct	-7.45	
For >50 To 100, Deduct	-11.92	
For >100, Deduct	-17.88	
32 93 53 00-0040 EA 10 Gallon Container Shrub Planting	78.89	
For >10 To 25, Deduct	-3.94	
For >25 To 50, Deduct	-9.86	
For >50 To 100, Deduct	-15.78	
For >100, Deduct	-23.67	
32 93 53 00-0041 EA 15 Gallon Container Shrub Planting	108.70	
For >10 To 25, Deduct	-5.44	
For >25 To 50, Deduct	-13.59	
For >50 To 100, Deduct	-21.74	
For >100, Deduct	-32.61	



Exterior Improvements		32
Planting		32 90
Plants		32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 53 00-0042 EA 20 Gallon Container Shrub Planting	182.34	
For >10 To 25, Deduct	-9.12	
For >25 To 50, Deduct	-22.79	
For >50 To 100, Deduct	-36.47	
For >100, Deduct	-54.70	
32 93 53 00-0043 EA 25 Gallon Container Shrub Planting	233.53	
For >10 To 25, Deduct	-11.68	
For >25 To 50, Deduct	-29.19	
For >50 To 100, Deduct	-46.71	
For >100, Deduct	-70.06	
32 93 53 00-0044 EA 15" Balled And Burlapped Shrub Planting	49.09	
For >10 To 25, Deduct	-2.45	
For >25 To 50, Deduct	-6.14	
For >50 To 100, Deduct	-9.82	
For >100, Deduct	-14.73	
32 93 53 00-0045 EA 18" Balled And Burlapped Shrub Planting	50.85	
For >10 To 25, Deduct	-2.54	
For >25 To 50, Deduct	-6.36	
For >50 To 100, Deduct	-10.17	
For >100, Deduct	-15.26	
32 93 53 00-0046 EA 24" Balled And Burlapped Shrub Planting	56.10	
For >10 To 25, Deduct	-2.81	
For >25 To 50, Deduct	-7.01	
For >50 To 100, Deduct	-11.22	
For >100, Deduct	-16.83	
32 93 53 00-0047 EA 30" Balled And Burlapped Shrub Planting	56.10	
For >10 To 25, Deduct	-2.81	
For >25 To 50, Deduct	-7.01	
For >50 To 100, Deduct	-11.22	
For >100, Deduct	-16.83	
32 93 53 00-0048 EA 36" Balled And Burlapped Shrub Planting	61.36	
For >10 To 25, Deduct	-3.07	
For >25 To 50, Deduct	-7.67	
For >50 To 100, Deduct	-12.27	
For >100, Deduct	-18.41	
32 93 53 00-0049 EA 42" Balled And Burlapped Shrub Planting	64.87	
For >10 To 25, Deduct	-3.24	
For >25 To 50, Deduct	-8.11	
For >50 To 100, Deduct	-12.97	
For >100, Deduct	-19.46	
32 93 53 00-0050 EA 48" Balled And Burlapped Shrub Planting	70.13	
For >10 To 25, Deduct	-3.51	
For >25 To 50, Deduct	-8.77	
For >50 To 100, Deduct	-14.03	
For >100, Deduct	-21.04	
32 93 53 00-0051 EA 5' Balled And Burlapped Shrub Planting	105.20	
For >10 To 25, Deduct	-5.26	
For >25 To 50, Deduct	-13.15	
For >50 To 100, Deduct	-21.04	
For >100, Deduct	-31.56	
32 93 53 00-0052 EA 6' Balled And Burlapped Shrub Planting	149.02	
For >10 To 25, Deduct	-7.45	
For >25 To 50, Deduct	-18.63	
For >50 To 100, Deduct	-29.80	
For >100, Deduct	-44.71	
32 93 53 00-0053 EA 7' Balled And Burlapped Shrub Planting	198.12	
For >10 To 25, Deduct	-9.91	
For >25 To 50, Deduct	-24.77	
For >50 To 100, Deduct	-39.62	
For >100, Deduct	-59.44	
32 93 53 00-0054 EA 8' Balled And Burlapped Shrub Planting	224.42	
For >10 To 25, Deduct	-11.22	
For >25 To 50, Deduct	-28.05	
For >50 To 100, Deduct	-44.88	
For >100, Deduct	-67.33	
32 93 53 00-0055 EA 9' Balled And Burlapped Shrub Planting	241.94	
For >10 To 25, Deduct	-12.10	
For >25 To 50, Deduct	-30.24	
For >50 To 100, Deduct	-48.39	
For >100, Deduct	-72.58	
32 93 53 00-0056 EA 10' Balled And Burlapped Shrub Planting	262.99	
For >10 To 25, Deduct	-13.15	
For >25 To 50, Deduct	-32.87	
For >50 To 100, Deduct	-52.60	
For >100, Deduct	-78.90	
32 93 53 00-0057 Planting Groundcover, Vines, Perennials, Annuals And Bulbs (32 93 53)		
See CSI section 32 91 13 16-0001 for mulch.		
32 93 53 00-0058 EA 2-1/4" Diameter Potted Groundcover And Flower Planting	1.46	
For >10 To 25, Deduct	-0.07	
For >25 To 50, Deduct	-0.18	
For >50 To 100, Deduct	-0.29	
For >100, Deduct	-0.44	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 53 00-0059 EA 3" Diameter Potted Groundcover And Flower Planting	1.66	
For >10 To 25, Deduct	-0.08	
For >25 To 50, Deduct	-0.21	
For >50 To 100, Deduct	-0.33	
For >100, Deduct	-0.50	
32 93 53 00-0060 EA 4" Diameter Potted Groundcover And Flower Planting	1.95	
For >10 To 25, Deduct	-0.10	
For >25 To 50, Deduct	-0.24	
For >50 To 100, Deduct	-0.39	
For >100, Deduct	-0.59	
32 93 53 00-0061 EA 5-1/2" Diameter Potted Groundcover And Flower Planting	2.34	
For >10 To 25, Deduct	-0.12	
For >25 To 50, Deduct	-0.29	
For >50 To 100, Deduct	-0.47	
For >100, Deduct	-0.70	
32 93 53 00-0062 EA 6" Diameter Potted Groundcover And Flower Planting	2.92	
For >10 To 25, Deduct	-0.15	
For >25 To 50, Deduct	-0.37	
For >50 To 100, Deduct	-0.58	
For >100, Deduct	-0.88	
32 93 53 00-0063 EA 8" Diameter Potted Groundcover And Flower Planting	4.38	
For >10 To 25, Deduct	-0.22	
For >25 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-0.88	
For >100, Deduct	-1.31	
32 93 53 00-0064 EA 1 Gallon Container Groundcover And Flower Planting	14.02	
For >10 To 25, Deduct	-0.70	
For >25 To 50, Deduct	-1.75	
For >50 To 100, Deduct	-2.80	
For >100, Deduct	-4.21	
32 93 53 00-0065 EA 2 Gallon Container Groundcover And Flower Planting	19.29	
For >10 To 25, Deduct	-0.96	
For >25 To 50, Deduct	-2.41	
For >50 To 100, Deduct	-3.86	
For >100, Deduct	-5.79	
32 93 53 00-0066 EA 3 Gallon Container Groundcover And Flower Planting	24.55	
For >10 To 25, Deduct	-1.23	
For >25 To 50, Deduct	-3.07	
For >50 To 100, Deduct	-4.91	
For >100, Deduct	-7.37	
32 93 53 00-0067 EA 4 Gallon Container Groundcover And Flower Planting	31.56	
For >10 To 25, Deduct	-1.58	
For >25 To 50, Deduct	-3.95	
For >50 To 100, Deduct	-6.31	
For >100, Deduct	-9.47	
32 93 53 00-0068 EA 5 Gallon Container Groundcover And Flower Planting	38.57	
For >10 To 25, Deduct	-1.93	
For >25 To 50, Deduct	-4.82	
For >50 To 100, Deduct	-7.71	
For >100, Deduct	-11.57	
32 93 53 00-0069 EA 7 Gallon Container Groundcover And Flower Planting	52.59	
For >10 To 25, Deduct	-2.63	
For >25 To 50, Deduct	-6.57	
For >50 To 100, Deduct	-10.52	
For >100, Deduct	-15.78	
32 93 53 00-0070 EA Bulb Planting.....	0.87	
For >10 To 25, Deduct	-0.04	
For >25 To 50, Deduct	-0.11	
For >50 To 100, Deduct	-0.17	
For >100, Deduct	-0.26	
32 93 53 00-0071 EA Flats Of 24 Groundcover And Flower Planting.....	24.54	
For >10 To 25, Deduct	-1.23	
For >25, Deduct	-3.07	
32 93 53 00-0072 EA Flats Of 36 Groundcover And Flower Planting.....	34.81	
For >10 To 25, Deduct	-1.74	
For >25, Deduct	-4.35	
32 93 53 00-0073 EA Flats Of 48 Groundcover And Flower Planting.....	46.35	
For >10 To 25, Deduct	-2.32	
For >25, Deduct	-5.79	

32 93 53 00-0074 Tree Pits (32 93 53)

Note: Costs given show the tree pit size accommodates the soil ball and the type of soil excavated includes excavation, bank run sand and gravel fill for drainage, imported mix planting soil, hand backfill, perforated drainage pipe for watering, and drainage fabric. Includes one layer of woven fabric to be applied before mulch is spread. Excludes additional soil conditioners or mulch. See CSI section 32 91 13 16-0000 for appropriate mulch or decorative topping, 32 91 13 16-0001 for appropriate mulch or decorative topping.

32 93 53 00-0075 EA 2' x 1-1/4' Deep Tree Pit	106.95
32 93 53 00-0076 EA 2' x 2-1/2' Deep Tree Pit	160.39
32 93 53 00-0077 EA 2-1/2' x 1-1/2' Deep Tree Pit	205.98
32 93 53 00-0078 EA 2-1/2' x 3' Deep Tree Pit	308.93
32 93 53 00-0079 EA 3' x 1-3/4' Deep Tree Pit	320.16
32 93 53 00-0080 EA 3' x 3-1/2' Deep Tree Pit	478.04
32 93 53 00-0081 EA 3-1/2' x 1-3/4' Deep Tree Pit	393.62
32 93 53 00-0082 EA 3-1/2' x 3-1/2' Deep Tree Pit	589.71
32 93 53 00-0083 EA 4' x 2' Deep Tree Pit.....	471.03



		Exterior Improvements	32
		Planting	32 90
		Plants	32 93

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 53 00-0084	EA		4' x 4' Deep Tree Pit	706.20	
32 93 53 00-0085	EA		4-1/2' x 2' Deep Tree Pit	680.34	
32 93 53 00-0086	EA		4-1/2' x 4' Deep Tree Pit	1,022.28	
32 93 53 00-0087	EA		5' x 2-1/4' Deep Tree Pit	904.87	
32 93 53 00-0088	EA		5' x 4-1/2' Deep Tree Pit	1,349.00	
32 93 53 00-0089	EA		6' x 2-1/2' Deep Tree Pit	1,283.20	
32 93 53 00-0090	EA		6' x 5' Deep Tree Pit	1,922.30	
32 93 53 00-0091	EA		7' x 3' Deep Tree Pit	2,163.11	
32 93 53 00-0092	EA		7' x 6' Deep Tree Pit	3,259.80	
32 93 53 00-0093	EA		8' x 3-1/4' Deep Tree Pit	2,979.63	
32 93 53 00-0094	EA		8' x 6-1/2' Deep Tree Pit	4,467.78	

32 94 Planting Accessories (32 90)

32 94 13 Landscape Edging (32 94)

Note: Including stakes.

32 94 13 00-0001 Landscape Edging (32 94 13)

Note: Includes stakes.

32 94 13 00-0002	LF		6" Poly/Vinyl Landscape Edging With Non-Round Top.....	3.78	0.89
			<i>For >2,000 To 5,000 LF, Deduct</i>	-0.20	
			<i>For >5,000 LF, Deduct</i>	-0.40	
32 94 13 00-0003	LF		5" Polyethylene Landscape Edging With Round Top.....	2.41	0.89
			<i>For >2,000 To 5,000 LF, Deduct</i>	-0.06	
			<i>For >5,000 LF, Deduct</i>	-0.12	
32 94 13 00-0004	LF		5-1/2" Polyethylene Landscape Edging With Round Top	2.45	0.89
			<i>For >2,000 To 5,000 LF, Deduct</i>	-0.07	
			<i>For >5,000 LF, Deduct</i>	-0.13	
32 94 13 00-0005	LF		5" Polyethylene Landscape Edging With Corrugated Sides And Round Top	2.47	0.89
			<i>For >2,000 To 5,000 LF, Deduct</i>	-0.07	
			<i>For >5,000 LF, Deduct</i>	-0.14	
32 94 13 00-0006	LF		1/8" x 4", Mill Finish, Aluminum Alloy Landscape Edging	6.78	2.13
			<i>For >1,000 LF, Deduct</i>	-0.64	
32 94 13 00-0007	LF		1/8" x 4", Black Paint, Aluminum Alloy Landscape Edging	7.31	2.13
			<i>For >1,000 LF, Deduct</i>	-0.77	
32 94 13 00-0008	LF		1/8" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	7.34	2.13
			<i>For >1,000 LF, Deduct</i>	-0.78	
32 94 13 00-0009	LF		3/16" x 4", Mill Finish, Aluminum Alloy Landscape Edging	8.28	2.20
			<i>For >1,000 LF, Deduct</i>	-0.98	
32 94 13 00-0010	LF		3/16" x 4", Black Paint, Aluminum Alloy Landscape Edging	8.93	2.20
			<i>For >1,000 LF, Deduct</i>	-1.15	
32 94 13 00-0011	LF		3/16" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	8.92	2.20
			<i>For >1,000 LF, Deduct</i>	-1.14	
32 94 13 00-0012	LF		1/8" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	7.54	2.27
			<i>For >1,000 LF, Deduct</i>	-0.77	
32 94 13 00-0013	LF		1/8" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	8.26	2.27
			<i>For >1,000 LF, Deduct</i>	-0.95	
32 94 13 00-0014	LF		1/8" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	8.33	2.27
			<i>For >1,000 LF, Deduct</i>	-0.97	
32 94 13 00-0015	LF		3/16" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	9.26	2.34
			<i>For >1,000 LF, Deduct</i>	-1.17	
32 94 13 00-0016	LF		3/16" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	9.99	2.34
			<i>For >1,000 LF, Deduct</i>	-1.35	
32 94 13 00-0017	LF		3/16" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	10.05	2.34
			<i>For >1,000 LF, Deduct</i>	-1.36	
32 94 13 00-0018	LF		1/8" x 4" Powder Coated Steel Landscape Edging.....	7.18	2.20
			<i>For >1,000 LF, Deduct</i>	-0.70	
32 94 13 00-0019	LF		3/16" x 4" Powder Coated Steel Landscape Edging.....	8.24	2.20
			<i>For >1,000 LF, Deduct</i>	-0.96	
32 94 13 00-0020	LF		1/4" x 5" Powder Coated Steel Landscape Edging.....	11.08	2.20
			<i>For >1,000 LF, Deduct</i>	-1.67	
32 94 13 00-0021	LF		1/2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board).....	5.63	2.13
			<i>For >1,000 LF, Deduct</i>	-0.35	
32 94 13 00-0022	LF		1" x 4", Recycled Plastic Landscape Edging (Bend-A-Board).....	6.27	2.13
			<i>For >1,000 LF, Deduct</i>	-0.51	
32 94 13 00-0023	LF		1" x 6", Recycled Plastic Landscape Edging (Bend-A-Board).....	6.82	2.13
			<i>For >1,000 LF, Deduct</i>	-0.65	
32 94 13 00-0024	LF		2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board).....	6.94	2.13
			<i>For >1,000 LF, Deduct</i>	-0.68	

32 94 16 Landscape Timbers (32 94)

32 94 16 00-0001	LF		1" x 4" Redwood Edging	3.93	1.42
32 94 16 00-0002	LF		2" x 4" Redwood Edging	5.46	2.12
32 94 16 00-0003	LF		4" x 6" Pressure Treated Hardwood	8.12	2.83
32 94 16 00-0004	LF		6" x 6" Pressure Treated Hardwood	10.57	3.55
32 94 16 00-0005	LF		6" x 8" Pressure Treated Hardwood	12.32	4.16
32 94 16 00-0006	LF		1" x 4" Pressure Treated Pine.....	3.26	1.42
32 94 16 00-0007	LF		2" x 4" Pressure Treated Pine.....	4.92	2.12
32 94 16 00-0008	LF		4" x 6" Pressure Treated Pine.....	7.72	2.75
32 94 16 00-0009	LF		6" x 6" Pressure Treated Pine.....	10.49	3.55
32 94 16 00-0010	LF		6" x 8" Pressure Treated Pine.....	12.81	4.16
32 94 16 00-0011	LF		6" x 8" Railroad Ties	11.22	3.99

32 Exterior Improvements**32 90 Planting****32 94 Planting Accessories**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 94 16 00-0012 LF 7" x 9" Railroad Ties 13.61 5.01

32 94 23 Plant Protection (32 94)

32 94 23 00-0001 SF Tree Trunk Protection - Hardware Cloth 1/4" Mesh, 23 Gauge 2.09

32 94 43 Tree Grates (32 94)**32 94 43 00-0001 Tree Grates With Frames (32 94 43)****32 94 43 00-0002 Round Cast Iron Tree Grates With Frames (32 94 43 00-0001)**

32 94 43 00-0003	EA	32" Diameter, 100 To 150 LB Cast Iron Tree Grate With Frame	.....617.62	52.89
32 94 43 00-0004	EA	36" Diameter, 125 To 175 LB Cast Iron Tree Grate With Frame	.....710.67	52.89
32 94 43 00-0005	EA	42" Diameter, 150 To 200 LB Cast Iron Tree Grate With Frame	.....862.25	70.52
32 94 43 00-0006	EA	48" Diameter, 200 To 250 LB Cast Iron Tree Grate With Frame	.....1,064.79	70.52
32 94 43 00-0007	EA	54" Diameter, 300 To 350 LB Cast Iron Tree Grate With Frame	.....1,364.17	88.16
32 94 43 00-0008	EA	60" Diameter, Up To 350 LB Cast Iron Tree Grate With Frame	.....1,437.75	105.79
32 94 43 00-0009	EA	60" Diameter, >350 LB Cast Iron Tree Grate With Frame	.....1,578.70	105.79
32 94 43 00-0010	EA	72" Diameter, Up To 550 LB Cast Iron Tree Grate With Frame	.....2,106.15	149.86
32 94 43 00-0011	EA	72" Diameter, >500 To 550 LB Cast Iron Tree Grate With Frame	.....2,188.26	149.86
32 94 43 00-0012	EA	72" Diameter, >600 To 650 LB Cast Iron Tree Grate With Frame	.....2,256.69	149.86
32 94 43 00-0013	EA	72" Diameter, >650 To 700 LB Cast Iron Tree Grate With Frame	.....2,311.43	149.86
32 94 43 00-0014	EA	72" Diameter, >700 LB Cast Iron Tree Grate With Frame	.....2,352.48	149.86
32 94 43 00-0015	EA	93" Diameter, 950 To 1,000 LB Cast Iron Tree Grate With Frame	.....2,586.02	176.31

32 94 43 00-0016 Square Cast Iron Tree Grates With Frames (32 94 43 00-0001)

32 94 43 00-0017	EA	30" x 30", 75 To 125 LB Cast Iron Tree Grate With Frame	.....571.08	52.89
32 94 43 00-0018	EA	36" x 36", 100 To 150 LB Cast Iron Tree Grate With Frame	.....687.40	52.89
32 94 43 00-0019	EA	48" x 48", Up To 200 LB Cast Iron Tree Grate With Frame	.....1,024.78	88.16
32 94 43 00-0020	EA	48" x 48", >200 To 250 LB Cast Iron Tree Grate With Frame	.....1,202.69	88.16
32 94 43 00-0021	EA	48" x 48", >250 To 300 LB Cast Iron Tree Grate With Frame	.....1,366.91	88.16
32 94 43 00-0022	EA	48" x 48", >300 To 350 LB Cast Iron Tree Grate With Frame	.....1,517.44	88.16
32 94 43 00-0023	EA	48" x 48", >350 To 400 LB Cast Iron Tree Grate With Frame	.....1,654.29	88.16
32 94 43 00-0024	EA	48" x 48", >400 LB Cast Iron Tree Grate With Frame	.....1,777.45	88.16
32 94 43 00-0025	EA	60" x 60", Up To 400 LB Cast Iron Tree Grate With Frame	.....1,724.82	123.41
32 94 43 00-0026	EA	60" x 60", >400 To 450 LB Cast Iron Tree Grate With Frame	.....1,847.98	123.41
32 94 43 00-0027	EA	60" x 60", >450 To 500 LB Cast Iron Tree Grate With Frame	.....1,957.46	123.41
32 94 43 00-0028	EA	60" x 60", >500 To 550 LB Cast Iron Tree Grate With Frame	.....2,053.26	123.41
32 94 43 00-0029	EA	60" x 60", >550 To 600 LB Cast Iron Tree Grate With Frame	.....2,135.37	123.41
32 94 43 00-0030	EA	60" x 60", >600 LB Cast Iron Tree Grate With Frame	.....2,203.80	123.41
32 94 43 00-0031	EA	72" x 72", Up To 550 LB Cast Iron Tree Grate With Frame	.....2,106.15	149.86
32 94 43 00-0032	EA	72" x 72", >550 To 600 LB Cast Iron Tree Grate With Frame	.....2,188.26	149.86
32 94 43 00-0033	EA	72" x 72", >600 To 650 LB Cast Iron Tree Grate With Frame	.....2,256.69	149.86
32 94 43 00-0034	EA	72" x 72", >650 To 700 LB Cast Iron Tree Grate With Frame	.....2,311.43	149.86
32 94 43 00-0035	EA	72" x 72", >700 To 750 LB Cast Iron Tree Grate With Frame	.....2,352.48	149.86
32 94 43 00-0036	EA	72" x 72", >750 To 800 LB Cast Iron Tree Grate With Frame	.....2,379.85	149.86
32 94 43 00-0037	EA	72" x 72", >800 To 850 LB Cast Iron Tree Grate With Frame	.....2,393.53	149.86
32 94 43 00-0038	EA	72" x 72", >850 LB Cast Iron Tree Grate With Frame	.....2,407.22	149.86

32 94 43 00-0039 Rectangular Cast Iron Tree Grates With Frames (32 94 43 00-0001)

32 94 43 00-0040	EA	36" x 48", 200 To 250 LB Cast Iron Tree Grate With Frame	.....1,064.79	70.52
32 94 43 00-0041	EA	36" x 60", 200 To 250 LB Cast Iron Tree Grate With Frame	.....1,085.31	70.52
32 94 43 00-0042	EA	36" x 72", 275 To 325 LB Cast Iron Tree Grate With Frame	.....1,327.22	88.16
32 94 43 00-0043	EA	48" x 72", Up To 350 LB Cast Iron Tree Grate With Frame	.....1,555.76	88.16
32 94 43 00-0044	EA	48" x 72", >350 LB Cast Iron Tree Grate With Frame	.....1,654.29	88.16
32 94 43 00-0045	EA	60" x 84", 700 To 750 LB Cast Iron Tree Grate With Frame	.....2,229.31	149.86

32 94 49 Plant And Tree Accessories (32 94)**32 94 49 00-0001 Tree Guying (32 94 49)****32 94 49 00-0002 Tree Guying, Stakes (32 94 49 00-0001)**

Note: Includes stakes, cross brace, double #12 gauge twisted wire and reinforced rubber hose tree wrap.

32 94 49 00-0003	EA	Tree Guying Up To 2" Caliper, 2 Stakes, Guy Wire And Wrap	.....18.55	
32 94 49 00-0004	EA	Tree Guying 2" To 3" Caliper, 2 Stakes, Guy Wire And Wrap	.....33.46	
32 94 49 00-0005	EA	Tree Guying 3" To 4" Caliper, 3 Stakes, Guy Wire And Wrap	.....57.52	

32 94 49 00-0006 Tree Guying, Anchors (32 94 49 00-0001)

Note: Includes arrowhead anchor, cable, turnbuckles and wrap or reinforced rubber hose.

32 94 49 00-0007	EA	Tree Guying Up To 3" Caliper, 3" Anchors And Polypropylene Flat Rope	.....77.22	
32 94 49 00-0008	EA	Tree Guying 3" To 6" Caliper, 4" Anchors And Polypropylene Flat Rope	.....104.08	
32 94 49 00-0009	EA	Tree Guying 6" To 8" Caliper, 6" Anchors And Polypropylene Flat Rope	.....132.87	
32 94 49 00-0010	EA	Tree Guying 8" And Up Caliper, 8" Anchors And Polypropylene Flat Rope	.....172.31	

32 94 49 00-0011 Tree Wrap (32 94 49)



		Exterior Improvements	32
		Planting	32 90
		Planting Accessories	32 94

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 49 00-0012 EA Tree Wrap, Up To 1" Caliper Applied Ground Level To First Branches Of Tree.....	5.20	
32 94 49 00-0013 EA Tree Wrap, 1" To 2" Caliper Applied Ground Level To First Branches Of Tree.....	8.56	
32 94 49 00-0014 EA Tree Wrap, >2" To 4" Caliper Applied Ground Level To First Branches Of Tree.....	16.82	
32 94 49 00-0015 EA Tree Wrap, >4" To 6" Caliper Applied Ground Level To First Branches Of Tree.....	25.64	
32 94 49 00-0016 Tree Guards (32 94 49)		
32 94 49 00-0017 EA 3' Preformed Plastic Tree Guard.....	8.95	
32 94 49 00-0018 EA 2' Preformed Plastic Tree Guard.....	8.18	
32 94 49 00-0019 Stake Out Tree And Shrub Locations (32 94 49)		
Note: When no design available.		
32 94 49 00-0020 EA Stake Out Trees Or Shrubs.....	5.37	
32 94 49 00-0021 Root Barriers (32 94 49)		
32 94 49 00-0022 EA 12" High x 24" Long Root Barrier Panel, .080" Polypropylene, With Self Locking Joiner.....	7.91	
32 94 49 00-0023 EA 18" High x 24" Long Root Barrier Panel, .080" Polypropylene, With Self Locking Joiner.....	10.93	
32 94 49 00-0024 EA 24" High x 24" Long Root Barrier Panel, .080" Polypropylene, With Self Locking Joiner.....	12.84	
32 94 49 00-0025 EA 36" High x 24" Long Root Barrier Panel, .080" Polypropylene, With Self Locking Joiner.....	23.42	
32 94 49 00-0026 EA 48" High x 24" Long Root Barrier Panel, .080" Polypropylene, With Self Locking Joiner.....	32.13	
32 96 Transplanting (32 96)		
See CSI section 32 94 49 00-0001 for guying.		
32 96 33 Shrub Transplanting (32 96)		
Note: Includes digging up, moving on site, digging new hole and replanting.		
32 96 33 00-0001 Moving Shrubs On Site, Relocate (32 96 33)		
Note: Includes digging up, moving on site, digging new hole and replanting. See CSI section 32 94 49 00-0001 for guying.		
32 96 33 00-0002 EA Up To 18" Root Ball, Move Shrubs On Site.....	59.89	
For >25 To 50, Deduct	-5.99	
For >50, Deduct	-8.98	
32 96 33 00-0003 EA >18" To 24" Root Ball, Move Shrubs On Site.....	81.03	
For >25 To 50, Deduct	-8.10	
For >50, Deduct	-12.15	
32 96 33 00-0004 EA >24" To 30" Root Ball, Move Shrubs On Site.....	137.39	
For >25 To 50, Deduct	-13.74	
For >50, Deduct	-20.61	
32 96 33 00-0005 EA >30" To 36" Root Ball, Move Shrubs On Site.....	211.38	
For >25 To 50, Deduct	-21.14	
For >50, Deduct	-31.71	
32 96 43 Tree Transplanting (32 96)		
Note: Includes digging up, moving on site, digging new hole and replanting.		
32 96 43 00-0001 Moving Trees On Site, Relocate (32 96 43)		
Note: Includes digging up, moving on site, digging new hole and replanting. Excludes crane where necessary for trees over 20' tall. See CSI section 01 22 23 00-0842 for crane lifting equipment, 32 94 49 00-0001 for guying.		
32 96 43 00-0002 EA Up To 24" Root Ball, Move Trees On Site.....	228.70	
For >5 To 10, Deduct	-11.44	
For >10 To 20, Deduct	-22.87	
For >20, Deduct	-34.31	
32 96 43 00-0003 EA >24" To 30" Root Ball, Move Trees On Site.....	313.63	
For >5 To 10, Deduct	-15.68	
For >10 To 20, Deduct	-31.36	
For >20, Deduct	-47.04	
32 96 43 00-0004 EA >30" To 36" Root Ball, Move Trees On Site.....	508.20	
For >5 To 10, Deduct	-25.41	
For >10 To 20, Deduct	-50.82	
For >20, Deduct	-76.23	
32 96 43 00-0005 EA >36" To 48" Root Ball, Move Trees On Site.....	844.40	
For >5 To 10, Deduct	-42.22	
For >10 To 20, Deduct	-84.44	
For >20, Deduct	-126.66	
32 96 43 00-0006 EA >48" To 60" Root Ball, Move Trees On Site.....	1,372.15	
For >5 To 10, Deduct	-68.61	
For >10 To 20, Deduct	-137.22	
For >20, Deduct	-205.82	
32 96 43 00-0007 EA >60" To 72" Root Ball, Move Trees On Site.....	1,770.51	
For >5 To 10, Deduct	-88.53	
For >10 To 20, Deduct	-177.05	
For >20, Deduct	-265.58	
32 96 43 00-0008 EA >72" To 84" Root Ball, Move Trees On Site.....	2,286.92	
For >5 To 10, Deduct	-114.35	
For >10 To 20, Deduct	-228.69	
For >20, Deduct	-343.04	

32 Exterior Improvements

32 90 Planting

32 96 Transplanting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 96 43 00-0009	EA		>84" To 96" Root Ball, Move Trees On Site.....	2,744.30	
			<i>For >5 To 10, Deduct</i>	-137.22	
			<i>For >10 To 20, Deduct</i>	-274.43	
			<i>For >20, Deduct</i>	-411.65	
32 96 43 00-0010	EA		>96" To 120" Root Ball, Move Trees On Site.....	3,118.52	
			<i>For >5 To 10, Deduct</i>	-155.93	
			<i>For >10 To 20, Deduct</i>	-311.85	
			<i>For >20, Deduct</i>	-467.78	

END OF SECTION 32



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 Utilities

33 01 Operation And Maintenance Of Utilities ⁽³³⁾

33 01 10 Operation And Maintenance Of Water Utilities ^(33 01)

33 01 10 54 **Cleaning of Water Utility Piping** ^(33 01 10)

See CSI section 33 01 30 41-0006 for cleaning of water lines.

33 01 10 58 **Disinfection of Water Utility Piping Systems** ^(33 01 10)

33 01 10 58-0001 **Water Main Disinfection/Sterilization** ^(33 01 10 58)

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA Setting Up And Removing Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	804.96	
33 01 10 58-0003	EA Re-Set Up/Move Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	402.47	
33 01 10 58-0004	LF Up To 4" Diameter Pipe Water Main Disinfection/Sterilization.....	0.31	
	For >250 To 500, Deduct	-0.02	
	For >500 To 1,000, Deduct	-0.03	
	For >1,000 To 2,000, Deduct	-0.05	
	For >2,000 To 5,000, Deduct	-0.06	
	For >5,000, Deduct	-0.08	
33 01 10 58-0005	LF 6" Diameter Pipe Water Main Disinfection/Sterilization.....	0.46	
	For >250 To 500, Deduct	-0.02	
	For >500 To 1,000, Deduct	-0.05	
	For >1,000 To 2,000, Deduct	-0.07	
	For >2,000 To 5,000, Deduct	-0.09	
	For >5,000, Deduct	-0.12	
33 01 10 58-0006	LF 8" Diameter Pipe Water Main Disinfection/Sterilization.....	0.60	
	For >250 To 500, Deduct	-0.03	
	For >500 To 1,000, Deduct	-0.06	
	For >1,000 To 2,000, Deduct	-0.09	
	For >2,000 To 5,000, Deduct	-0.12	
	For >5,000, Deduct	-0.15	
33 01 10 58-0007	LF 10" Diameter Pipe Water Main Disinfection/Sterilization.....	0.71	
	For >250 To 500, Deduct	-0.04	
	For >500 To 1,000, Deduct	-0.07	
	For >1,000 To 2,000, Deduct	-0.11	
	For >2,000 To 5,000, Deduct	-0.14	
	For >5,000, Deduct	-0.18	
33 01 10 58-0008	LF 12" Diameter Pipe Water Main Disinfection/Sterilization.....	0.93	
	For >250 To 500, Deduct	-0.05	
	For >500 To 1,000, Deduct	-0.09	
	For >1,000 To 2,000, Deduct	-0.14	
	For >2,000 To 5,000, Deduct	-0.19	
	For >5,000, Deduct	-0.23	
33 01 10 58-0009	LF >12" To 16" Diameter Pipe Water Main Disinfection/Sterilization.....	1.05	
	For >250 To 500, Deduct	-0.05	
	For >500 To 1,000, Deduct	-0.11	
	For >1,000 To 2,000, Deduct	-0.16	
	For >2,000 To 5,000, Deduct	-0.21	
	For >5,000, Deduct	-0.26	
33 01 10 58-0010	LF >16" To 24" Diameter Pipe Water Main Disinfection/Sterilization.....	1.20	
	For >250 To 500, Deduct	-0.06	
	For >500 To 1,000, Deduct	-0.12	
	For >1,000 To 2,000, Deduct	-0.18	
	For >2,000 To 5,000, Deduct	-0.24	
	For >5,000, Deduct	-0.30	
33 01 10 58-0011	LF >24" To 30" Diameter Pipe Water Main Disinfection/Sterilization.....	1.42	
	For >250 To 500, Deduct	-0.07	
	For >500 To 1,000, Deduct	-0.14	
	For >1,000 To 2,000, Deduct	-0.21	
	For >2,000 To 5,000, Deduct	-0.28	
	For >5,000, Deduct	-0.36	
33 01 10 58-0012	LF >30" To 42" Diameter Pipe Water Main Disinfection/Sterilization.....	1.83	
	For >250 To 500, Deduct	-0.09	
	For >500 To 1,000, Deduct	-0.18	
	For >1,000 To 2,000, Deduct	-0.27	
	For >2,000 To 5,000, Deduct	-0.37	
	For >5,000, Deduct	-0.46	
33 01 10 58-0013	LF >42" To 60" Diameter Pipe Water Main Disinfection/Sterilization.....	2.68	
	For >250 To 500, Deduct	-0.13	
	For >500 To 1,000, Deduct	-0.27	
	For >1,000 To 2,000, Deduct	-0.40	
	For >2,000 To 5,000, Deduct	-0.54	
	For >5,000, Deduct	-0.67	
33 01 10 58-0014	LF >60" Diameter Pipe Water Main Disinfection/Sterilization.....	3.71	
	For >250 To 500, Deduct	-0.19	
	For >500 To 1,000, Deduct	-0.37	
	For >1,000 To 2,000, Deduct	-0.56	
	For >2,000 To 5,000, Deduct	-0.74	
	For >5,000, Deduct	-0.93	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 10 Operation And Maintenance Of Water Utilities**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST
33 01 10 71 Relining Water Utilities Pipelines (33 01 10)

See CSI section 33 01 30 71-0000 for relining water pipelines.

33 01 10 71-0001	Relining Underground Water Pipelines	<small>(33 01 10 71)</small>	
	Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hours response for homeowners backups.		
33 01 10 71-0002	Relining Underground Water Pipelines Set-Up And Reinsertion	<small>(33 01 10 71-0001)</small>	
33 01 10 71-0003	EA Initial Set Up And Final Equipment Removal For Relining Underground Water Pipelines		4,124.64
33 01 10 71-0004	EA Move And Reset Up At Different Access/Location		1,649.86
33 01 10 71-0005	Lining Pipe With Cement	<small>(33 01 10 71-0001)</small>	
33 01 10 71-0006	LF Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement		49.87
	For 3/16" Thickness, Add		0.54
	For 1/4" Thickness, Add		1.08
33 01 10 71-0007	LF >500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement		44.36
	For 3/16" Thickness, Add		0.54
	For 1/4" Thickness, Add		1.08
33 01 10 71-0008	LF >1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement		36.98
	For 3/16" Thickness, Add		0.54
	For 1/4" Thickness, Add		1.08
33 01 10 71-0009	LF >5,000', 4" Pipe, 1/8" Pipe Lining With Cement		27.71
	For 3/16" Thickness, Add		0.54
	For 1/4" Thickness, Add		1.08
33 01 10 71-0010	LF Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement		51.67
	For 3/16" Thickness, Add		0.81
	For 1/4" Thickness, Add		1.62
33 01 10 71-0011	LF >500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement		45.95
	For 3/16" Thickness, Add		0.81
	For 1/4" Thickness, Add		1.62
33 01 10 71-0012	LF >1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement		38.32
	For 3/16" Thickness, Add		0.81
	For 1/4" Thickness, Add		1.62
33 01 10 71-0013	LF >5,000', 6" Pipe, 1/8" Pipe Lining With Cement		28.92
	For 3/16" Thickness, Add		0.81
	For 1/4" Thickness, Add		1.62
33 01 10 71-0014	LF Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement		53.38
	For 3/16" Thickness, Add		1.08
	For 1/4" Thickness, Add		2.15
33 01 10 71-0015	LF >500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement		47.54
	For 3/16" Thickness, Add		1.08
	For 1/4" Thickness, Add		2.15
33 01 10 71-0016	LF >1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement		39.65
	For 3/16" Thickness, Add		1.08
	For 1/4" Thickness, Add		2.15
33 01 10 71-0017	LF >5,000', 8" Pipe, 1/8" Pipe Lining With Cement		30.12
	For 3/16" Thickness, Add		1.08
	For 1/4" Thickness, Add		2.15
33 01 10 71-0018	LF Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement		54.65
	For 3/16" Thickness, Add		1.35
	For 1/4" Thickness, Add		2.70
33 01 10 71-0019	LF >500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement		48.70
	For 3/16" Thickness, Add		1.35
	For 1/4" Thickness, Add		2.70
33 01 10 71-0020	LF >1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement		40.70
	For 3/16" Thickness, Add		1.35
	For 1/4" Thickness, Add		2.70
33 01 10 71-0021	LF >5,000', 10" Pipe, 1/8" Pipe Lining With Cement		31.35
	For 3/16" Thickness, Add		1.35
	For 1/4" Thickness, Add		2.70
33 01 10 71-0022	LF Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement		58.93
	For 3/16" Thickness, Add		1.62
	For 1/4" Thickness, Add		3.24
33 01 10 71-0023	LF >500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement		52.62
	For 3/16" Thickness, Add		1.62
	For 1/4" Thickness, Add		3.24
33 01 10 71-0024	LF >1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement		44.11
	For 3/16" Thickness, Add		1.62
	For 1/4" Thickness, Add		3.24
33 01 10 71-0025	LF >5,000', 12" Pipe, 1/8" Pipe Lining With Cement		34.00
	For 3/16" Thickness, Add		1.62
	For 1/4" Thickness, Add		3.24
33 01 10 71-0026	LF Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement		62.78
	For 1/4" Thickness, Add		1.80
	For 5/16" Thickness, Add		3.60
33 01 10 71-0027	LF >500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement		56.24
	For 1/4" Thickness, Add		1.80
	For 5/16" Thickness, Add		3.60
33 01 10 71-0028	LF >1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement		47.36
	For 1/4" Thickness, Add		1.80
	For 5/16" Thickness, Add		3.60
33 01 10 71-0029	LF >5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement		37.67
	For 1/4" Thickness, Add		1.80
	For 5/16" Thickness, Add		3.60



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0030 LF Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	65.53	
<i>For 1/4" Thickness, Add</i>	2.16	
<i>For 5/16" Thickness, Add</i>	4.31	
33 01 10 71-0031 LF >500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	58.78	
<i>For 1/4" Thickness, Add</i>	2.16	
<i>For 5/16" Thickness, Add</i>	4.31	
33 01 10 71-0032 LF >1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	49.61	
<i>For 1/4" Thickness, Add</i>	2.16	
<i>For 5/16" Thickness, Add</i>	4.31	
33 01 10 71-0033 LF >5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	40.43	
<i>For 1/4" Thickness, Add</i>	2.16	
<i>For 5/16" Thickness, Add</i>	4.31	
33 01 10 71-0034 LF Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	69.07	
<i>For 1/4" Thickness, Add</i>	2.52	
<i>For 5/16" Thickness, Add</i>	5.04	
33 01 10 71-0035 LF >500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	62.09	
<i>For 1/4" Thickness, Add</i>	2.52	
<i>For 5/16" Thickness, Add</i>	5.04	
33 01 10 71-0036 LF >1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	52.47	
<i>For 1/4" Thickness, Add</i>	2.52	
<i>For 5/16" Thickness, Add</i>	5.04	
33 01 10 71-0037 LF >5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	43.87	
<i>For 1/4" Thickness, Add</i>	2.52	
<i>For 5/16" Thickness, Add</i>	5.04	
33 01 10 71-0038 LF Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement	72.67	
<i>For 1/4" Thickness, Add</i>	2.88	
<i>For 5/16" Thickness, Add</i>	5.76	
33 01 10 71-0039 LF >500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement	65.40	
<i>For 1/4" Thickness, Add</i>	2.88	
<i>For 5/16" Thickness, Add</i>	5.76	
33 01 10 71-0040 LF >1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement	55.48	
<i>For 1/4" Thickness, Add</i>	2.88	
<i>For 5/16" Thickness, Add</i>	5.76	
33 01 10 71-0041 LF >5,000', 24" Pipe, 3/16" Pipe Lining With Cement	47.49	
<i>For 1/4" Thickness, Add</i>	2.88	
<i>For 5/16" Thickness, Add</i>	5.76	
33 01 10 71-0042 LF Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement	77.27	
<i>For 1/4" Thickness, Add</i>	3.60	
<i>For 5/16" Thickness, Add</i>	7.19	
33 01 10 71-0043 LF >500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement	69.57	
<i>For 1/4" Thickness, Add</i>	3.60	
<i>For 5/16" Thickness, Add</i>	7.19	
33 01 10 71-0044 LF >1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement	59.07	
<i>For 1/4" Thickness, Add</i>	3.60	
<i>For 5/16" Thickness, Add</i>	7.19	
33 01 10 71-0045 LF >5,000', 30" Pipe, 3/16" Pipe Lining With Cement	50.98	
<i>For 1/4" Thickness, Add</i>	3.60	
<i>For 5/16" Thickness, Add</i>	7.19	
33 01 10 71-0046 LF Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement	81.80	
<i>For 1/4" Thickness, Add</i>	4.32	
<i>For 5/16" Thickness, Add</i>	8.64	
33 01 10 71-0047 LF 500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement	73.77	
<i>For 1/4" Thickness, Add</i>	4.32	
<i>For 5/16" Thickness, Add</i>	8.64	
33 01 10 71-0048 LF >1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement	62.67	
<i>For 1/4" Thickness, Add</i>	4.32	
<i>For 5/16" Thickness, Add</i>	8.64	
33 01 10 71-0049 LF >5,000', 36" Pipe, 3/16" Pipe Lining With Cement	54.50	
<i>For 1/4" Thickness, Add</i>	4.32	
<i>For 5/16" Thickness, Add</i>	8.64	
33 01 10 71-0050 LF Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement	97.91	
<i>For 3/8" Thickness, Add</i>	11.34	
<i>For 7/16" Thickness, Add</i>	17.00	
33 01 10 71-0051 LF >500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement	89.16	
<i>For 3/8" Thickness, Add</i>	11.34	
<i>For 7/16" Thickness, Add</i>	17.00	
33 01 10 71-0052 LF >1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement	77.11	
<i>For 3/8" Thickness, Add</i>	11.34	
<i>For 7/16" Thickness, Add</i>	17.00	
33 01 10 71-0053 LF >5,000', 42" Pipe, 1/4" Pipe Lining With Cement	68.67	
<i>For 3/8" Thickness, Add</i>	11.34	
<i>For 7/16" Thickness, Add</i>	17.00	
33 01 10 71-0054 LF Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement	107.47	
<i>For 3/8" Thickness, Add</i>	12.96	
<i>For 7/16" Thickness, Add</i>	19.43	
33 01 10 71-0055 LF >500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement	98.11	
<i>For 3/8" Thickness, Add</i>	12.96	
<i>For 7/16" Thickness, Add</i>	19.43	
33 01 10 71-0056 LF >1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement	85.14	
<i>For 3/8" Thickness, Add</i>	12.96	
<i>For 7/16" Thickness, Add</i>	19.43	
33 01 10 71-0057 LF >5,000', 48" Pipe, 1/4" Pipe Lining With Cement	76.55	
<i>For 3/8" Thickness, Add</i>	12.96	
<i>For 7/16" Thickness, Add</i>	19.43	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 10 Operation And Maintenance Of Water Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0058 LF Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement.....	112.22	
For 3/8" Thickness, Add	14.57	
For 7/16" Thickness, Add	21.86	
33 01 10 71-0059 LF >500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement	102.66	
For 3/8" Thickness, Add	14.57	
For 7/16" Thickness, Add	21.86	
33 01 10 71-0060 LF >1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement	89.39	
For 3/8" Thickness, Add	14.57	
For 7/16" Thickness, Add	21.86	
33 01 10 71-0061 LF >5,000', 54" Pipe, 1/4" Pipe Lining With Cement	81.13	
For 3/8" Thickness, Add	14.57	
For 7/16" Thickness, Add	21.86	
33 01 10 71-0062 LF Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement.....	116.99	
For 3/8" Thickness, Add	16.20	
For 7/16" Thickness, Add	24.29	
33 01 10 71-0063 LF >500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement	107.25	
For 3/8" Thickness, Add	16.20	
For 7/16" Thickness, Add	24.29	
33 01 10 71-0064 LF >1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement	93.73	
For 3/8" Thickness, Add	16.20	
For 7/16" Thickness, Add	24.29	
33 01 10 71-0065 LF >5,000', 60" Pipe, 1/4" Pipe Lining With Cement.....	85.72	
For 3/8" Thickness, Add	16.20	
For 7/16" Thickness, Add	24.29	
33 01 10 71-0066 LF Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement.....	122.00	
For 3/8" Thickness, Add	17.82	
For 7/16" Thickness, Add	26.72	
33 01 10 71-0067 LF >500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement	112.06	
For 3/8" Thickness, Add	17.82	
For 7/16" Thickness, Add	26.72	
33 01 10 71-0068 LF >1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement	98.32	
For 3/8" Thickness, Add	17.82	
For 7/16" Thickness, Add	26.72	
33 01 10 71-0069 LF >5,000', 66" Pipe, 1/4" Pipe Lining With Cement.....	90.91	
For 3/8" Thickness, Add	17.82	
For 7/16" Thickness, Add	26.72	
33 01 10 71-0070 LF Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement.....	127.33	
For 3/8" Thickness, Add	19.43	
For 7/16" Thickness, Add	29.15	
33 01 10 71-0071 LF >500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement	117.22	
For 3/8" Thickness, Add	19.43	
For 7/16" Thickness, Add	29.15	
33 01 10 71-0072 LF >1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement	103.15	
For 3/8" Thickness, Add	19.43	
For 7/16" Thickness, Add	29.15	
33 01 10 71-0073 LF >5,000', 72" Pipe, 1/4" Pipe Lining With Cement.....	96.16	
For 3/8" Thickness, Add	19.43	
For 7/16" Thickness, Add	29.15	

33 01 30 Operation And Maintenance Of Sewer Utilities (33 01)**33 01 30 11 Television Inspection Of Pipelines** (33 01 30)

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

33 01 30 11-0001 Remote Visual Inspection (RVI) Of Pipe Interior And Culverts (33 01 30 11)**33 01 30 11-0002 Video Camera Set-up** (33 01 30 11-0001)

33 01 30 11-0003 EA Initial Set Up For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	700.59	
Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1"-12" diameter pipes for distances up to 300 feet.		
33 01 30 11-0004 EA Initial Set Up For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert.....	1,401.19	
Note: Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).		
33 01 30 11-0005 EA Initial Set Up For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert	2,101.77	
33 01 30 11-0006 EA Re-Set Up/Move For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert.....	350.29	
33 01 30 11-0007 EA Re-Set Up/Move For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert	700.59	

33 01 30 11-0008 Video Camera Planning And Analysis Inspection (33 01 30 11-0001)

Note: For pipe interior and culverts.

33 01 30 11-0009 LF 4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase.....	1.78	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.18	
For >1,000 To 5,000, Deduct	-0.45	
For >5,000, Deduct	-0.62	
33 01 30 11-0010 LF >6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase.....	2.37	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.24	
For >1,000 To 5,000, Deduct	-0.59	
For >5,000, Deduct	-0.83	
33 01 30 11-0011 LF >12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase.....	2.96	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.30	
For >1,000 To 5,000, Deduct	-0.74	
For >5,000, Deduct	-1.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0012 LF >21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase.....	3.95	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.40	
For >1,000 To 5,000, Deduct	-0.99	
For >5,000, Deduct	-1.38	
33 01 30 11-0013 LF >30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase.....	5.55	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.56	
For >1,000 To 5,000, Deduct	-1.39	
For >5,000, Deduct	-1.94	
33 01 30 11-0014 LF >42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase.....	7.40	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.74	
For >1,000 To 5,000, Deduct	-1.85	
For >5,000, Deduct	-2.59	
33 01 30 11-0015 LF >60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase.....	10.45	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.05	
For >1,000 To 5,000, Deduct	-2.61	
For >5,000, Deduct	-3.66	
33 01 30 11-0016 LF >72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase.....	14.80	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.48	
For >1,000 To 5,000, Deduct	-3.70	
For >5,000, Deduct	-5.18	
33 01 30 11-0017 Video Camera Pre-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0018 LF 4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	2.63	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.26	
For >1,000 To 5,000, Deduct	-0.66	
For >5,000, Deduct	-0.92	
33 01 30 11-0019 LF >6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase	3.50	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.35	
For >1,000 To 5,000, Deduct	-0.88	
For >5,000, Deduct	-1.23	
33 01 30 11-0020 LF >12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase	4.38	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.44	
For >1,000 To 5,000, Deduct	-1.10	
For >5,000, Deduct	-1.53	
33 01 30 11-0021 LF >21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase	5.84	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.58	
For >1,000 To 5,000, Deduct	-1.46	
For >5,000, Deduct	-2.04	
33 01 30 11-0022 LF >30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase	8.21	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.82	
For >1,000 To 5,000, Deduct	-2.05	
For >5,000, Deduct	-2.87	
33 01 30 11-0023 LF >42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase	10.95	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.10	
For >1,000 To 5,000, Deduct	-2.74	
For >5,000, Deduct	-3.83	
33 01 30 11-0024 LF >60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase	15.46	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.55	
For >1,000 To 5,000, Deduct	-3.87	
For >5,000, Deduct	-5.41	
33 01 30 11-0025 LF >72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase	21.89	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-2.19	
For >1,000 To 5,000, Deduct	-5.47	
For >5,000, Deduct	-7.66	
33 01 30 11-0026 Video Camera Post-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0027 LF 4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	1.88	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.19	
For >1,000 To 5,000, Deduct	-0.47	
For >5,000, Deduct	-0.66	
33 01 30 11-0028 LF >6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	2.50	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.25	
For >1,000 To 5,000, Deduct	-0.63	
For >5,000, Deduct	-0.88	
33 01 30 11-0029 LF >12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	3.13	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.31	
For >1,000 To 5,000, Deduct	-0.78	
For >5,000, Deduct	-1.10	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0030 LF >21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	4.17	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.42	
For >1,000 To 5,000, Deduct	-1.04	
For >5,000, Deduct	-1.46	
33 01 30 11-0031 LF >30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	5.87	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.59	
For >1,000 To 5,000, Deduct	-1.47	
For >5,000, Deduct	-2.05	
33 01 30 11-0032 LF >42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	7.82	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.78	
For >1,000 To 5,000, Deduct	-1.96	
For >5,000, Deduct	-2.74	
33 01 30 11-0033 LF >60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	11.04	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.10	
For >1,000 To 5,000, Deduct	-2.76	
For >5,000, Deduct	-3.86	
33 01 30 11-0034 LF >72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	15.64	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.56	
For >1,000 To 5,000, Deduct	-3.91	
For >5,000, Deduct	-5.47	
33 01 30 41 Cleaning of Sewers <small>(33 01 30)</small>		
33 01 30 41-0001 Pipe Line Cleaning And Flushing <small>(33 01 30 41)</small>		
Note: Includes flushing. Owner provided water.		
33 01 30 41-0002 Pipe Line Cleaning <small>(33 01 30 41-0001)</small>		
Note: Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0003 Hydro Jet Set-up And Reinsertion <small>(33 01 30 41-0002)</small>		
33 01 30 41-0004 EA Initial Set Up And Final Equipment Removal For Jet Cleaning.....	2,180.40	
33 01 30 41-0005 EA Move And Reset Up At Different Access/Location For Jet Cleaning.....	545.10	
33 01 30 41-0006 Hydro Jet Cleaning Of Sewer And Water Pipelines <small>(33 01 30 41-0002)</small>		
33 01 30 41-0007 LF Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	2.93	
For >250 To 500, Deduct	-0.15	
For >500 To 1,000, Deduct	-0.29	
For >1,000 To 2,000, Deduct	-0.44	
For >2,000 To 5,000, Deduct	-0.59	
For >5,000, Deduct	-0.73	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.20	
33 01 30 41-0008 LF 6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	3.37	
For >250 To 500, Deduct	-0.17	
For >500 To 1,000, Deduct	-0.34	
For >1,000 To 2,000, Deduct	-0.51	
For >2,000 To 5,000, Deduct	-0.67	
For >5,000, Deduct	-0.84	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.53	
33 01 30 41-0009 LF 8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	3.95	
For >250 To 500, Deduct	-0.20	
For >500 To 1,000, Deduct	-0.40	
For >1,000 To 2,000, Deduct	-0.59	
For >2,000 To 5,000, Deduct	-0.79	
For >5,000, Deduct	-0.99	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.96	
33 01 30 41-0010 LF 10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	4.89	
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.49	
For >1,000 To 2,000, Deduct	-0.73	
For >2,000 To 5,000, Deduct	-0.98	
For >5,000, Deduct	-1.22	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.67	
33 01 30 41-0011 LF 12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	5.54	
For >250 To 500, Deduct	-0.28	
For >500 To 1,000, Deduct	-0.55	
For >1,000 To 2,000, Deduct	-0.83	
For >2,000 To 5,000, Deduct	-1.11	
For >5,000, Deduct	-1.39	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.16	
33 01 30 41-0012 LF >12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	6.39	
For >250 To 500, Deduct	-0.32	
For >500 To 1,000, Deduct	-0.64	
For >1,000 To 2,000, Deduct	-0.96	
For >2,000 To 5,000, Deduct	-1.28	
For >5,000, Deduct	-1.60	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0013 LF >16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	7.69	
<i>For >250 To 500, Deduct</i>	-0.38	
<i>For >500 To 1,000, Deduct</i>	-0.77	
<i>For >1,000 To 2,000, Deduct</i>	-1.15	
<i>For >2,000 To 5,000, Deduct</i>	-1.54	
<i>For >5,000, Deduct</i>	-1.92	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	5.77	
33 01 30 41-0014 LF >24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	8.73	
<i>For >250 To 500, Deduct</i>	-0.44	
<i>For >500 To 1,000, Deduct</i>	-0.87	
<i>For >1,000 To 2,000, Deduct</i>	-1.31	
<i>For >2,000 To 5,000, Deduct</i>	-1.75	
<i>For >5,000, Deduct</i>	-2.18	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	6.55	
33 01 30 41-0015 LF >30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	10.32	
<i>For >250 To 500, Deduct</i>	-0.52	
<i>For >500 To 1,000, Deduct</i>	-1.03	
<i>For >1,000 To 2,000, Deduct</i>	-1.55	
<i>For >2,000 To 5,000, Deduct</i>	-2.06	
<i>For >5,000, Deduct</i>	-2.58	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	7.74	
33 01 30 41-0016 LF >42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	12.98	
<i>For >250 To 500, Deduct</i>	-0.65	
<i>For >500 To 1,000, Deduct</i>	-1.30	
<i>For >1,000 To 2,000, Deduct</i>	-1.95	
<i>For >2,000 To 5,000, Deduct</i>	-2.60	
<i>For >5,000, Deduct</i>	-3.25	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	9.74	
33 01 30 41-0017 LF >60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	15.14	
<i>For >250 To 500, Deduct</i>	-0.76	
<i>For >500 To 1,000, Deduct</i>	-1.51	
<i>For >1,000 To 2,000, Deduct</i>	-2.27	
<i>For >2,000 To 5,000, Deduct</i>	-3.03	
<i>For >5,000, Deduct</i>	-3.79	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	11.36	
 33 01 30 41-0018 Flushing Of Storm Water Pipelines <small>(33 01 30 41-0002)</small>		
Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.		
33 01 30 41-0019 LF 12" To 16" Diameter Pipe Line Flushing.....	1.13	
<i>For >250 To 500, Deduct</i>	-0.06	
<i>For >500 To 1,000, Deduct</i>	-0.11	
<i>For >1,000 To 2,000, Deduct</i>	-0.17	
<i>For >2,000 To 5,000, Deduct</i>	-0.23	
<i>For >5,000, Deduct</i>	-0.28	
33 01 30 41-0020 LF >16" To 24" Diameter Pipe Line Flushing.....	1.29	
<i>For >250 To 500, Deduct</i>	-0.06	
<i>For >500 To 1,000, Deduct</i>	-0.13	
<i>For >1,000 To 2,000, Deduct</i>	-0.19	
<i>For >2,000 To 5,000, Deduct</i>	-0.26	
<i>For >5,000, Deduct</i>	-0.32	
33 01 30 41-0021 LF >24" To 30" Diameter Pipe Line Flushing.....	1.52	
<i>For >250 To 500, Deduct</i>	-0.08	
<i>For >500 To 1,000, Deduct</i>	-0.15	
<i>For >1,000 To 2,000, Deduct</i>	-0.23	
<i>For >2,000 To 5,000, Deduct</i>	-0.30	
<i>For >5,000, Deduct</i>	-0.38	
33 01 30 41-0022 LF >30" To 42" Diameter Pipe Line Flushing.....	1.76	
<i>For >250 To 500, Deduct</i>	-0.09	
<i>For >500 To 1,000, Deduct</i>	-0.18	
<i>For >1,000 To 2,000, Deduct</i>	-0.26	
<i>For >2,000 To 5,000, Deduct</i>	-0.35	
<i>For >5,000, Deduct</i>	-0.44	
33 01 30 41-0023 LF >42" To 60" Diameter Pipe Line Flushing.....	2.34	
<i>For >250 To 500, Deduct</i>	-0.12	
<i>For >500 To 1,000, Deduct</i>	-0.23	
<i>For >1,000 To 2,000, Deduct</i>	-0.35	
<i>For >2,000 To 5,000, Deduct</i>	-0.47	
<i>For >5,000, Deduct</i>	-0.59	
 33 01 30 41-0024 Hydro Jet Cleaning Of Culverts <small>(33 01 30 41-0002)</small>		
33 01 30 41-0025 LF Jet Cleaning Of Culvert, 0-250 LF.....	13.56	
<i>For >250 To 500, Deduct</i>	-0.68	
<i>For >500 To 1,000, Deduct</i>	-1.36	
<i>For >1,000 To 2,000, Deduct</i>	-2.03	
<i>For >2,000 To 5,000, Deduct</i>	-2.71	
<i>For >5,000, Deduct</i>	-3.39	
 33 01 30 41-0026 Pipe Line Cleaning, Mechanical Method <small>(33 01 30 41-0001)</small>		
Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0027 EA Initial Set Up And Final Equipment Removal For Mechanical Cleaning.....	965.95	
33 01 30 41-0028 EA Move And Reset Up At Different Access/Location.....	321.98	

33 Utilities
33 01 Operation And Maintenance Of Utilities
33 01 30 Operation And Maintenance Of Sewer Utilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0029 LF Up To 4" Diameter Pipe Line Cleaning, Mechanical Method	5.53	
For >250 To 500, Deduct	-0.27	
For >500 To 1,000, Deduct	-0.54	
For >1,000 To 2,000, Deduct	-0.80	
For >2,000 To 5,000, Deduct	-1.07	
For >5,000, Deduct	-1.34	
33 01 30 41-0030 LF 6" Diameter Pipe Line Cleaning, Mechanical Method	7.23	
For >250 To 500, Deduct	-0.35	
For >500 To 1,000, Deduct	-0.69	
For >1,000 To 2,000, Deduct	-1.04	
For >2,000 To 5,000, Deduct	-1.38	
For >5,000, Deduct	-1.73	
33 01 30 41-0031 LF 8" Diameter Pipe Line Cleaning, Mechanical Method	8.46	
For >250 To 500, Deduct	-0.40	
For >500 To 1,000, Deduct	-0.81	
For >1,000 To 2,000, Deduct	-1.21	
For >2,000 To 5,000, Deduct	-1.61	
For >5,000, Deduct	-2.01	
33 01 30 41-0032 LF 10" Diameter Pipe Line Cleaning, Mechanical Method	9.78	
For >250 To 500, Deduct	-0.46	
For >500 To 1,000, Deduct	-0.93	
For >1,000 To 2,000, Deduct	-1.39	
For >2,000 To 5,000, Deduct	-1.86	
For >5,000, Deduct	-2.32	
33 01 30 41-0033 LF 12" Diameter Pipe Line Cleaning, Mechanical Method	10.64	
For >250 To 500, Deduct	-0.50	
For >500 To 1,000, Deduct	-1.01	
For >1,000 To 2,000, Deduct	-1.51	
For >2,000 To 5,000, Deduct	-2.01	
For >5,000, Deduct	-2.52	
33 01 30 41-0034 LF >12" To 16" Diameter Pipe Line Cleaning, Mechanical Method	12.25	
For >250 To 500, Deduct	-0.58	
For >500 To 1,000, Deduct	-1.15	
For >1,000 To 2,000, Deduct	-1.73	
For >2,000 To 5,000, Deduct	-2.30	
For >5,000, Deduct	-2.88	
33 01 30 41-0035 LF >16" To 24" Diameter Pipe Line Cleaning, Mechanical Method	15.36	
For >250 To 500, Deduct	-0.71	
For >500 To 1,000, Deduct	-1.42	
For >1,000 To 2,000, Deduct	-2.13	
For >2,000 To 5,000, Deduct	-2.84	
For >5,000, Deduct	-3.55	
33 01 30 41-0036 LF >24" To 30" Diameter Pipe Line Cleaning, Mechanical Method	17.49	
For >250 To 500, Deduct	-0.79	
For >500 To 1,000, Deduct	-1.58	
For >1,000 To 2,000, Deduct	-2.37	
For >2,000 To 5,000, Deduct	-3.17	
For >5,000, Deduct	-3.96	
33 01 30 41-0037 LF >30" To 42" Diameter Pipe Line Cleaning, Mechanical Method	20.30	
For >250 To 500, Deduct	-0.91	
For >500 To 1,000, Deduct	-1.82	
For >1,000 To 2,000, Deduct	-2.73	
For >2,000 To 5,000, Deduct	-3.65	
For >5,000, Deduct	-4.56	
33 01 30 41-0038 LF >42 To 60" Diameter Pipe Line Cleaning, Mechanical Method	26.64	
For >250 To 500, Deduct	-1.21	
For >500 To 1,000, Deduct	-2.42	
For >1,000 To 2,000, Deduct	-3.62	
For >2,000 To 5,000, Deduct	-4.83	
For >5,000, Deduct	-6.04	
33 01 30 41-0039 LF >60" Diameter Pipe Line Cleaning, Mechanical Method	30.15	
For >250 To 500, Deduct	-1.34	
For >500 To 1,000, Deduct	-2.68	
For >1,000 To 2,000, Deduct	-4.02	
For >2,000 To 5,000, Deduct	-5.37	
For >5,000, Deduct	-6.71	
33 01 30 41-0040 Pipe Line Auguring/Rod Out Pipe (33 01 30 41-0001)		
33 01 30 41-0041 EA Initial Set Up And Final Equipment Removal For Auguring	965.95	
33 01 30 41-0042 EA Move And Reset Up At Different Location	321.98	
33 01 30 41-0043 LF Up To 4" Diameter Pipe Line Auguring/Rod Out	3.22	
For >250 To 500, Deduct	-0.16	
For >500 To 1,000, Deduct	-0.32	
For >1,000 To 2,000, Deduct	-0.48	
For >2,000 To 5,000, Deduct	-0.64	
For >5,000, Deduct	-0.81	
33 01 30 41-0044 LF 6" Diameter Pipe Line Auguring/Rod Out	4.16	
For >250 To 500, Deduct	-0.21	
For >500 To 1,000, Deduct	-0.42	
For >1,000 To 2,000, Deduct	-0.62	
For >2,000 To 5,000, Deduct	-0.83	
For >5,000, Deduct	-1.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0045 LF 8" Diameter Pipe Line Auguring/Rod Out	4.83	
<i>For >250 To 500, Deduct</i>	-0.24	
<i>For >500 To 1,000, Deduct</i>	-0.48	
<i>For >1,000 To 2,000, Deduct</i>	-0.72	
<i>For >2,000 To 5,000, Deduct</i>	-0.97	
<i>For >5,000, Deduct</i>	-1.21	
33 01 30 41-0046 LF 10" Diameter Pipe Line Auguring/Rod Out	5.62	
<i>For >250 To 500, Deduct</i>	-0.28	
<i>For >500 To 1,000, Deduct</i>	-0.56	
<i>For >1,000 To 2,000, Deduct</i>	-0.84	
<i>For >2,000 To 5,000, Deduct</i>	-1.12	
<i>For >5,000, Deduct</i>	-1.41	
33 01 30 41-0047 LF 12" Diameter Pipe Line Auguring/Rod Out	6.03	
<i>For >250 To 500, Deduct</i>	-0.30	
<i>For >500 To 1,000, Deduct</i>	-0.60	
<i>For >1,000 To 2,000, Deduct</i>	-0.90	
<i>For >2,000 To 5,000, Deduct</i>	-1.21	
<i>For >5,000, Deduct</i>	-1.51	
33 01 30 41-0048 LF >12" To 16" Diameter Pipe Line Auguring/Rod Out	6.90	
<i>For >250 To 500, Deduct</i>	-0.35	
<i>For >500 To 1,000, Deduct</i>	-0.69	
<i>For >1,000 To 2,000, Deduct</i>	-1.04	
<i>For >2,000 To 5,000, Deduct</i>	-1.38	
<i>For >5,000, Deduct</i>	-1.73	
33 01 30 41-0049 LF >16" To 24" Diameter Pipe Line Auguring/Rod Out	8.47	
<i>For >250 To 500, Deduct</i>	-0.42	
<i>For >500 To 1,000, Deduct</i>	-0.85	
<i>For >1,000 To 2,000, Deduct</i>	-1.27	
<i>For >2,000 To 5,000, Deduct</i>	-1.69	
<i>For >5,000, Deduct</i>	-2.12	
33 01 30 41-0050 LF >24" To 30" Diameter Pipe Line Auguring/Rod Out	9.47	
<i>For >250 To 500, Deduct</i>	-0.47	
<i>For >500 To 1,000, Deduct</i>	-0.95	
<i>For >1,000 To 2,000, Deduct</i>	-1.42	
<i>For >2,000 To 5,000, Deduct</i>	-1.89	
<i>For >5,000, Deduct</i>	-2.37	
33 01 30 41-0051 LF >30" To 42" Diameter Pipe Line Auguring/Rod Out	10.98	
<i>For >250 To 500, Deduct</i>	-0.55	
<i>For >500 To 1,000, Deduct</i>	-1.10	
<i>For >1,000 To 2,000, Deduct</i>	-1.65	
<i>For >2,000 To 5,000, Deduct</i>	-2.20	
<i>For >5,000, Deduct</i>	-2.75	
33 01 30 41-0052 LF >42 To 60" Diameter Pipe Line Auguring/Rod Out	15.10	
<i>For >250 To 500, Deduct</i>	-0.76	
<i>For >500 To 1,000, Deduct</i>	-1.51	
<i>For >1,000 To 2,000, Deduct</i>	-2.27	
<i>For >2,000 To 5,000, Deduct</i>	-3.02	
<i>For >5,000, Deduct</i>	-3.78	
33 01 30 41-0053 LF >60" Diameter Pipe Line Auguring/Rod Out	16.09	
<i>For >250 To 500, Deduct</i>	-0.80	
<i>For >500 To 1,000, Deduct</i>	-1.61	
<i>For >1,000 To 2,000, Deduct</i>	-2.41	
<i>For >2,000 To 5,000, Deduct</i>	-3.22	
<i>For >5,000, Deduct</i>	-4.02	

33 01 30 42 Cleaning of Manholes (33 01 30)

33 01 30 42-0001 Structure Cleaning And Flushing (33 01 30 42)

Note: Includes flushing. Owner provided water.

33 01 30 42-0002 Rod Out Structures And Other Hand Operations (33 01 30 42-0001)

33 01 30 42-0003 EA Rod Out Sewer Catch Basin	84.26	
33 01 30 42-0004 EA Clean Out Debris From Entrance To Inlet Structure	210.65	
33 01 30 42-0005 EA 3' To 4' Diameter, Clean Out Blocked Manhole By Hand	701.29	
<i>For >10 To 100, Deduct</i>	-105.19	
<i>For >100 To 250, Deduct</i>	-157.79	
<i>For >250, Deduct</i>	-210.39	
33 01 30 42-0006 EA 5' To 6' Diameter, Clean Out Blocked Manhole By Hand	841.55	
<i>For >10 To 100, Deduct</i>	-126.23	
<i>For >100 To 250, Deduct</i>	-189.35	
<i>For >250, Deduct</i>	-252.47	
33 01 30 42-0007 EA Clean Out Blocked Catch Basin By Hand	420.78	
<i>For >10 To 100, Deduct</i>	-63.12	
<i>For >100 To 250, Deduct</i>	-94.68	
<i>For >250, Deduct</i>	-126.23	
33 01 30 42-0008 EA Up To 6" Diameter Pipe, Rod Out Blockage	16.86	
33 01 30 42-0009 EA 8" Diameter Pipe, Rod Out Blockage	18.54	
33 01 30 42-0010 EA 10" Diameter Pipe, Rod Out Blockage	21.07	
33 01 30 42-0011 EA 12" Diameter Pipe, Rod Out Blockage	24.44	
33 01 30 42-0012 EA >12" To 16" Diameter Pipe, Rod Out Blockage	28.65	
33 01 30 42-0013 EA >16" To 24" Diameter Pipe, Rod Out Blockage	33.70	
33 01 30 42-0014 EA >24" To 30" Diameter Pipe, Rod Out Blockage	39.60	
33 01 30 42-0015 EA >30" To 42" Diameter Pipe, Rod Out Blockage	45.50	
33 01 30 42-0016 EA >42" To 60" Diameter Pipe, Rod Out Blockage	53.08	
33 01 30 42-0017 EA >60" Diameter Pipe, Rod Out Blockage	63.19	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 42-0018		Cleaning Manholes And Drainage Structures <small>(33 01 30 42-0001)</small>	
Note: Includes removal of debris. Excludes disposal.			
33 01 30 42-0019	VLF	Waterblast Cleaning For 3' To 4' Diameter Manhole.....	90.85
33 01 30 42-0020	VLF	Waterblast Cleaning For 5' To 6' Diameter Manhole.....	113.57
33 01 30 42-0021	EA	Vacuum Out 1 To 2 Catch Basins Or Manholes.....	1,183.23
Note: Includes vacuum pump equipment.			
33 01 30 42-0022	EA	Vacuum Out 3 To 10 Catch Basins Or Manholes.....	887.42
Note: Includes vacuum pump equipment.			
33 01 30 42-0023	EA	Vacuum Out 11 To 25 Catch Basins Or Manholes.....	591.62
Note: Includes vacuum pump equipment.			
33 01 30 42-0024	EA	Vacuum Out 26 To 100 Catch Basins Or Manholes.....	517.67
Note: Includes vacuum pump equipment.			
33 01 30 42-0025	EA	Vacuum Out 101 To 250 Catch Basins Or Manholes.....	480.69
Note: Includes vacuum pump equipment.			
33 01 30 42-0026	EA	Vacuum Out >250 Catch Basins Or Manholes.....	443.71
Note: Includes vacuum pump equipment.			
33 01 30 42-0027	EA	Pump Out Blocked Manhole, 3' To 4' Diameter Includes Pump Equipment.....	337.03
33 01 30 42-0028	EA	Pump Out Blocked Manhole, 5' To 6' Diameter Includes Pump Equipment.....	505.56

33 01 30 51 Maintenance Of Utilities (33 01 30)

33 01 30 51-0001		Pipe Repair <small>(33 01 30 51)</small>	
33 01 30 51-0002		Pipe Repair Clamp, Full Circle, Single Band <small>(33 01 30 51-0001)</small>	
Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.			
33 01 30 51-0003	EA	2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	117.18
For Stainless Steel Nuts And Bolts, Add			
			19.70
33 01 30 51-0004	EA	2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	167.29
For Stainless Steel Nuts And Bolts, Add			
			29.69
33 01 30 51-0005	EA	2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	193.59
For Stainless Steel Nuts And Bolts, Add			
			34.96
33 01 30 51-0006	EA	2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	220.73
For Stainless Steel Nuts And Bolts, Add			
			40.22
33 01 30 51-0007	EA	2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	126.45
For Stainless Steel Nuts And Bolts, Add			
			21.39
33 01 30 51-0008	EA	2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	177.87
For Stainless Steel Nuts And Bolts, Add			
			31.68
33 01 30 51-0009	EA	2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	204.10
For Stainless Steel Nuts And Bolts, Add			
			36.83
33 01 30 51-0010	EA	2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	236.11
For Stainless Steel Nuts And Bolts, Add			
			43.10
33 01 30 51-0011	EA	3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	136.16
For Stainless Steel Nuts And Bolts, Add			
			23.40
33 01 30 51-0012	EA	3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	185.10
For Stainless Steel Nuts And Bolts, Add			
			33.12
33 01 30 51-0013	EA	3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	214.23
For Stainless Steel Nuts And Bolts, Add			
			38.83
33 01 30 51-0014	EA	3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	250.15
For Stainless Steel Nuts And Bolts, Add			
			46.10
33 01 30 51-0015	EA	4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	153.51
For Stainless Steel Nuts And Bolts, Add			
			26.61
33 01 30 51-0016	EA	4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	203.06
For Stainless Steel Nuts And Bolts, Add			
			35.82
33 01 30 51-0017	EA	4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	246.33
For Stainless Steel Nuts And Bolts, Add			
			43.61
33 01 30 51-0018	EA	4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	296.79
For Stainless Steel Nuts And Bolts, Add			
			52.60
33 01 30 51-0019	EA	4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	388.88
For Stainless Steel Nuts And Bolts, Add			
			70.65
33 01 30 51-0020	EA	4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	484.18
For Stainless Steel Nuts And Bolts, Add			
			88.70
33 01 30 51-0021	EA	4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	590.94
For Stainless Steel Nuts And Bolts, Add			
			108.81
33 01 30 51-0022	EA	6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	180.51
For Stainless Steel Nuts And Bolts, Add			
			31.40
33 01 30 51-0023	EA	6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	240.18
For Stainless Steel Nuts And Bolts, Add			
			42.60
33 01 30 51-0024	EA	6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	284.36
For Stainless Steel Nuts And Bolts, Add			
			50.23
33 01 30 51-0025	EA	6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	332.94
For Stainless Steel Nuts And Bolts, Add			
			58.37
33 01 30 51-0026	EA	6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	462.73
For Stainless Steel Nuts And Bolts, Add			
			84.58
33 01 30 51-0027	EA	6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	562.78
For Stainless Steel Nuts And Bolts, Add			
			103.14
33 01 30 51-0028	EA	6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	672.20
For Stainless Steel Nuts And Bolts, Add			
			123.25
33 01 30 51-0029	EA	8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	233.70
For Stainless Steel Nuts And Bolts, Add			
			37.57
33 01 30 51-0030	EA	8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	304.09
For Stainless Steel Nuts And Bolts, Add			
			49.71



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0031 EA 8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	367.11 60.16	
33 01 30 51-0032 EA 8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	438.33 71.68	
33 01 30 51-0033 EA 8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	583.94 99.31	
33 01 30 51-0034 EA 8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	698.40 118.75	
33 01 30 51-0035 EA 8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	826.72 139.77	
33 01 30 51-0036 EA 10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	274.45 45.73	
33 01 30 51-0037 EA 10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	369.53 63.25	
33 01 30 51-0038 EA 10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	434.98 73.95	
33 01 30 51-0039 EA 10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	534.01 91.46	
33 01 30 51-0040 EA 10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	702.99 124.06	
33 01 30 51-0041 EA 10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	799.01 138.66	
33 01 30 51-0042 EA 10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,030.20 182.93	
33 01 30 51-0043 EA 12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	312.20 51.58	
33 01 30 51-0044 EA 12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	408.18 68.59	
33 01 30 51-0045 EA 12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	492.81 83.00	
33 01 30 51-0046 EA 12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	606.76 103.14	
33 01 30 51-0047 EA 12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	782.29 136.23	
33 01 30 51-0048 EA 12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	919.50 159.09	
33 01 30 51-0049 EA 12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,170.39 206.28	
33 01 30 51-0050 Pipe Repair Clamp, Full Circle, Double Bands <small>(33 01 30 51-0001)</small> Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0051 EA 14.38"-15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	703.25 198.43	
33 01 30 51-0052 EA 14.38"-15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	998.49 286.46	
33 01 30 51-0053 EA 14.38"-15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,345.34 388.48	
33 01 30 51-0054 EA 14.38"-15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,985.55 585.52	
33 01 30 51-0055 EA 15.07"-15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	738.12 208.20	
33 01 30 51-0056 EA 15.07"-15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,045.19 299.74	
33 01 30 51-0057 EA 15.07"-15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,404.75 405.25	
33 01 30 51-0058 EA 15.07"-15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,081.34 613.46	
33 01 30 51-0059 EA 15.92"-16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	756.64 212.40	
33 01 30 51-0060 EA 15.92"-16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,069.57 305.34	
33 01 30 51-0061 EA 15.92"-16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,441.16 414.33	
33 01 30 51-0062 EA 15.92"-16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,133.56 626.73	
33 01 30 51-0063 EA 16.56"-17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	776.01 216.59	
33 01 30 51-0064 EA 16.56"-17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,097.31 311.63	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0065 EA 16.56"-17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,476.07	
For Stainless Steel Nuts And Bolts, Add	422.01	
33 01 30 51-0066 EA 16.56"-17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,185.52	
For Stainless Steel Nuts And Bolts, Add	639.31	
33 01 30 51-0067 EA 17.15"-17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	793.34	
For Stainless Steel Nuts And Bolts, Add	220.09	
33 01 30 51-0068 EA 17.15"-17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,120.90	
For Stainless Steel Nuts And Bolts, Add	316.51	
33 01 30 51-0069 EA 17.15"-17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,510.98	
For Stainless Steel Nuts And Bolts, Add	429.70	
33 01 30 51-0070 EA 17.15"-17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,232.20	
For Stainless Steel Nuts And Bolts, Add	649.79	
33 01 30 51-0071 EA 17.82"-18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	809.78	
For Stainless Steel Nuts And Bolts, Add	223.59	
33 01 30 51-0072 EA 17.82"-18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,145.26	
For Stainless Steel Nuts And Bolts, Add	322.10	
33 01 30 51-0073 EA 17.82"-18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,542.09	
For Stainless Steel Nuts And Bolts, Add	436.69	
33 01 30 51-0074 EA 17.82"-18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,261.65	
For Stainless Steel Nuts And Bolts, Add	655.03	
33 01 30 51-0075 EA 18.46"-19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	828.74	
For Stainless Steel Nuts And Bolts, Add	227.94	
33 01 30 51-0076 EA 18.46"-19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,174.16	
For Stainless Steel Nuts And Bolts, Add	329.09	
33 01 30 51-0077 EA 18.46"-19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,575.23	
For Stainless Steel Nuts And Bolts, Add	444.37	
33 01 30 51-0078 EA 18.46"-19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,329.34	
For Stainless Steel Nuts And Bolts, Add	673.55	
33 01 30 51-0079 Repair Couplings and Fittings (33 01 30 51-0001)		
33 01 30 51-0080 Couplings And Fittings For Copper Pipe, Compression (33 01 30 51-0079) Note: Includes gaskets. Dresser style 88.		
33 01 30 51-0081 Copper Compression Repair Couplings (33 01 30 51-0080)		
33 01 30 51-0082 EA 1/2" Copper Compression Repair Coupling	71.23	
33 01 30 51-0083 EA 3/4" Copper Compression Repair Coupling	82.79	
33 01 30 51-0084 EA 1" Copper Compression Repair Coupling	97.35	
33 01 30 51-0085 EA 1-1/4" Copper Compression Repair Coupling	109.45	
33 01 30 51-0086 EA 1-1/2" Copper Compression Repair Coupling	170.25	
33 01 30 51-0087 Copper Compression Repair Fitting, 90 Degree Elbows (33 01 30 51-0080)		
33 01 30 51-0088 EA 1/2" Copper Compression Repair 90 Degree Elbow	86.08	
33 01 30 51-0089 EA 1" Copper Compression Repair 90 Degree Elbow	99.48	
33 01 30 51-0090 EA 1-1/2" Copper Compression Repair 90 Degree Elbow	204.00	
33 01 30 51-0091 EA 1" IPS x 1" CTS 90 Degree Plain End Street Elbow	79.60	
33 01 30 51-0092 EA 3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow	71.67	
33 01 30 51-0093 EA 1" IPS x 1" CTS 90 Degree Threaded End Street Elbow	83.90	
33 01 30 51-0094 EA 1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow	104.09	
33 01 30 51-0095 Copper Compression Repair Fitting, Tees (33 01 30 51-0080)		
33 01 30 51-0096 EA 1/2" Copper Compression Repair Tee	158.71	
33 01 30 51-0097 EA 3/4" Copper Compression Repair Tee	121.53	
33 01 30 51-0098 EA 1" Copper Compression Repair Tee	144.47	
33 01 30 51-0099 EA 1" F x 1" M x 1" CTS Street Tee	118.15	
33 01 30 51-0100 Copper Compression Repair Fitting, Male Adapters (33 01 30 51-0080)		
33 01 30 51-0101 EA 3/4" M x 1/2" CTS Male Adapter	74.63	
33 01 30 51-0102 EA 3/4" M x 3/4" CTS Male Adapter	59.50	
33 01 30 51-0103 EA 1" M x 1" CTS Male Adapter	67.53	
33 01 30 51-0104 EA 1-1/4" M x 1" CTS Male Adapter	81.78	
33 01 30 51-0105 EA 1-1/4" M x 1-1/4" CTS Male Adapter	98.48	
33 01 30 51-0106 EA 1-1/2" M x 1" CTS Male Adapter	107.24	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0107				Copper Compression Repair Fitting, Female Adapters (33 01 30 51-0080)		
			EA	3/4" M x 3/4" CTS Female Adapter.....	87.70	
			EA	1" M x 1" CTS Female Adapter.....	92.53	
33 01 30 51-0110				Couplings And Fittings For Steel Pipe, Cast Body, Compression (33 01 30 51-0079) Note: Includes gaskets. Dresser style 90.		
33 01 30 51-0111				Couplings For Steel Pipe, Cast Body (Compression) (33 01 30 51-0110) Note: Includes gaskets.		
			EA	1/2" Coupling, Cast Body (Compression), 5" Middle Ring.....	47.89	
			EA	3/4" Coupling, Cast Body (Compression), 5" Middle Ring.....	49.13	
			EA	1" Coupling, Cast Body (Compression), 5" Middle Ring.....	55.49	
			EA	1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring.....	61.91	
			EA	1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring.....	76.58	
			EA	2" Coupling, Cast Body (Compression), 5" Middle Ring.....	93.05	
			EA	1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	49.13	
			EA	3/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	50.50	
			EA	1" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	55.70	
			EA	1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	62.54	
			EA	1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	78.66	
			EA	2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	93.97	
			EA	3/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....	91.68	
			EA	1" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....	107.24	
			EA	1-1/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....	112.04	
			EA	1-1/2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....	126.61	
			EA	2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....	153.96	
33 01 30 51-0129				Reducing Couplings For Steel Pipe (Compression) (33 01 30 51-0110) Note: Includes armored gaskets.		
			EA	3/4" x 1/2" Reducing Coupling (Compression).....	53.27	
			EA	1" x 3/4" Reducing Coupling (Compression).....	56.84	
			EA	1-1/4" x 3/4" Reducing Coupling (Compression).....	64.17	
			EA	1-1/4" x 1" Reducing Coupling (Compression).....	66.45	
			EA	1-1/2" x 3/4" Reducing Coupling (Compression).....	124.32	
			EA	1-1/2" x 1" Reducing Coupling (Compression).....	80.13	
			EA	1-1/2" x 1-1/4" Reducing Coupling (Compression).....	80.45	
			EA	2" x 3/4" Reducing Coupling (Compression).....	148.51	
			EA	2" x 1" Reducing Coupling (Compression).....	135.82	
			EA	2" x 1-1/4" Reducing Coupling (Compression).....	105.61	
			EA	2" x 1-1/2" Reducing Coupling (Compression).....	105.28	
33 01 30 51-0141				Steel Compression Repair Fittings, Elbows (33 01 30 51-0110) Note: Includes armored gaskets.		
			EA	1" 45 Degree Elbow (Compression).....	85.98	
			EA	1-1/4" 45 Degree Elbow (Compression).....	90.07	
			EA	1-1/2" 45 Degree Elbow (Compression).....	116.11	
			EA	2" 45 Degree Elbow (Compression).....	146.14	
			EA	3/4" 90 Degree Elbow (Compression).....	58.54	
			EA	1" 90 Degree Elbow (Compression).....	61.25	
			EA	1-1/4" 90 Degree Elbow (Compression).....	71.59	
			EA	1-1/2" 90 Degree Elbow (Compression).....	101.13	
			EA	2" 90 Degree Elbow (Compression).....	111.50	
			EA	3/4" Plain End 90 Degree Street Elbow (Compression).....	58.71	
			EA	1" Plain End 90 Degree Street Elbow (Compression).....	53.01	
			EA	1-1/4" Plain End 90 Degree Street Elbow (Compression).....	59.94	
			EA	1-1/2" Plain End 90 Degree Street Elbow (Compression).....	75.73	
			EA	2" Plain End 90 Degree Street Elbow (Compression).....	97.14	
			EA	3/4" Threaded End 90 Degree Street Elbow (Compression).....	60.50	
			EA	1" Threaded End 90 Degree Street Elbow (Compression).....	56.36	
			EA	1-1/4" Threaded End 90 Degree Street Elbow (Compression).....	72.39	
			EA	1-1/2" Threaded End 90 Degree Street Elbow (Compression).....	87.61	
			EA	2" Threaded End 90 Degree Street Elbow (Compression).....	122.54	
33 01 30 51-0161				Steel Compression Repair Fittings, Tees (33 01 30 51-0110) Note: Includes armored gaskets.		
			EA	3/4" Street Tee (Compression).....	66.20	
			EA	1" Street Tee (Compression).....	77.84	
			EA	1-1/4" Street Tee (Compression).....	79.72	
			EA	1-1/2" Street Tee (Compression).....	92.92	
			EA	2" Street Tee (Compression).....	137.04	
			EA	1-1/4" x 1-1/4" x 1" Reducing Street Tee (Compression).....	79.08	
			EA	1-1/4" x 1" x 1-1/4" Reducing Street Tee (Compression).....	82.32	
			EA	1-1/2" x 1-1/2" x 1" Reducing Street Tee (Compression).....	103.09	
			EA	1-1/2" x 1-1/2" x 1-1/4" Reducing Street Tee (Compression).....	117.74	
			EA	1-1/2" x 1" x 1-1/2" Reducing Street Tee (Compression).....	118.39	
			EA	1-1/2" x 1-1/4" x 1-1/2" Reducing Street Tee (Compression).....	101.71	
			EA	2" x 1-1/4" x 2" Reducing Street Tee (Compression).....	133.87	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 51-0174	EA	2" x 1-1/2" x 2" Reducing Street Tee (Compression)	150.16	
33 01 30 51-0175	EA	3/4" Welding Street Tee (Compression).....	115.05	
33 01 30 51-0176	EA	1" Welding Street Tee (Compression).....	116.51	
33 01 30 51-0177	EA	1-1/4" Welding Street Tee (Compression)	125.55	
33 01 30 51-0178	EA	1-1/2" Welding Street Tee (Compression)	151.54	
33 01 30 51-0179	EA	2" Welding Street Tee (Compression).....	202.43	
33 01 30 51-0180	EA	3/4" Regular Tee (Compression)	86.63	
33 01 30 51-0181	EA	1" Regular Tee (Compression)	147.52	
33 01 30 51-0182	EA	1-1/4" Regular Tee (Compression)	156.49	
33 01 30 51-0183	EA	1-1/2" Regular Tee (Compression)	169.69	
33 01 30 51-0184	EA	2" Regular Tee (Compression)	189.24	
33 01 30 51-0185	EA	2" x 2" x 1-1/4" Regular Reducing Tee (Compression).....	186.63	

33 01 30 51-0186 Steel Compression Repair Fittings, Male Adapters (33 01 30 51-0110)

Note: Includes armored gaskets.

33 01 30 51-0187	EA	3/4" Male Adapter (Compression).....	58.39	
33 01 30 51-0188	EA	1" Male Adapter (Compression).....	65.31	
33 01 30 51-0189	EA	1-1/4" Male Adapter (Compression).....	84.29	
33 01 30 51-0190	EA	1-1/2" Male Adapter (Compression).....	95.93	
33 01 30 51-0191	EA	2" Male Adapter (Compression).....	108.78	
33 01 30 51-0192	EA	1" x 1-1/4" Male Adapter (Compression).....	83.87	

33 01 30 51-0193 Steel Compression Repair Fittings, Line Caps (33 01 30 51-0110)

Note: Includes armored gaskets.

33 01 30 51-0194	EA	3/4" Line Caps (Compression)	31.19	
33 01 30 51-0195	EA	1" Line Caps (Compression)	36.32	
33 01 30 51-0196	EA	1-1/4" Line Caps (Compression).....	41.53	
33 01 30 51-0197	EA	1-1/2" Line Caps (Compression).....	49.09	
33 01 30 51-0198	EA	2" Line Caps (Compression)	60.50	

33 01 30 51-0199 Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna S gasket. Dresser style 38

33 01 30 51-0200	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket	39.42	
33 01 30 51-0201	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket	50.10	
33 01 30 51-0202	EA	1" Coupling, 5" Middle Ring With Buna S Gasket	59.42	
33 01 30 51-0203	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket	73.34	
33 01 30 51-0204	EA	2" Coupling, 4" Middle Ring With Buna S Gasket	90.51	
33 01 30 51-0205	EA	2" Coupling, 5" Middle Ring With Buna S Gasket	107.77	
33 01 30 51-0206	EA	2" Coupling, 7" Middle Ring With Buna S Gasket	103.48	
33 01 30 51-0207	EA	3" Coupling, 4" Middle Ring With Buna S Gasket	140.15	
33 01 30 51-0208	EA	3" Coupling, 5" Middle Ring With Buna S Gasket	142.75	
33 01 30 51-0209	EA	3" Coupling, 7" Middle Ring With Buna S Gasket	145.35	
33 01 30 51-0210	EA	4" Coupling, 4" Middle Ring With Buna S Gasket	167.83	
33 01 30 51-0211	EA	4" Coupling, 5" Middle Ring With Buna S Gasket	172.24	
33 01 30 51-0212	EA	4" Coupling, 7" Middle Ring With Buna S Gasket	177.77	
33 01 30 51-0213	EA	5" Coupling, 4" Middle Ring With Buna S Gasket	211.36	
33 01 30 51-0214	EA	5" Coupling, 5" Middle Ring With Buna S Gasket	213.10	
33 01 30 51-0215	EA	5" Coupling, 7" Middle Ring With Buna S Gasket	219.44	
33 01 30 51-0216	EA	6" Coupling, 4" Middle Ring With Buna S Gasket	231.66	
33 01 30 51-0217	EA	6" Coupling, 5" Middle Ring With Buna S Gasket	236.37	
33 01 30 51-0218	EA	6" Coupling, 7" Middle Ring With Buna S Gasket	242.39	
33 01 30 51-0219	EA	8" Coupling, 4" Middle Ring With Buna S Gasket	271.02	
33 01 30 51-0220	EA	8" Coupling, 5" Middle Ring With Buna S Gasket	277.99	
33 01 30 51-0221	EA	8" Coupling, 7" Middle Ring With Buna S Gasket	283.71	
33 01 30 51-0222	EA	10" Coupling, 5" Middle Ring With Buna S Gasket	322.40	
33 01 30 51-0223	EA	10" Coupling, 7" Middle Ring With Buna S Gasket	355.29	
33 01 30 51-0224	EA	12" Coupling, 5" Middle Ring With Buna S Gasket	365.89	
33 01 30 51-0225	EA	12" Coupling, 7" Middle Ring With Buna S Gasket	435.61	
33 01 30 51-0226	EA	14" Coupling, 7" Middle Ring With Buna S Gasket	495.84	
33 01 30 51-0227	EA	16" Coupling, 7" Middle Ring With Buna S Gasket	576.65	
33 01 30 51-0228	EA	18" Coupling, 7" Middle Ring With Buna S Gasket	631.64	
33 01 30 51-0229	EA	20" Coupling, 7" Middle Ring With Buna S Gasket	681.42	
33 01 30 51-0230	EA	22" Coupling, 7" Middle Ring With Buna S Gasket	818.31	
33 01 30 51-0231	EA	24" Coupling, 7" Middle Ring With Buna S Gasket	864.19	

33 01 30 51-0232 Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna S gasket, protected. Dresser style 38.

33 01 30 51-0233	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected.....	40.17	
33 01 30 51-0234	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected	50.00	
33 01 30 51-0235	EA	1" Coupling, 5" Middle Ring With Buna S Gasket, Protected	59.37	
33 01 30 51-0236	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	73.00	
33 01 30 51-0237	EA	2" Coupling, 4" Middle Ring With Buna S Gasket, Protected	100.43	
33 01 30 51-0238	EA	2" Coupling, 5" Middle Ring With Buna S Gasket, Protected	99.06	
33 01 30 51-0239	EA	2" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	99.75	
33 01 30 51-0240	EA	3" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	145.35	
33 01 30 51-0241	EA	3" Coupling, 5" Middle Ring With Buna S Gasket, Protected	147.95	
33 01 30 51-0242	EA	3" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	150.55	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 01 30 51-0243	EA		4" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	174.91	
33 01 30 51-0244	EA		4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	170.33	
33 01 30 51-0245	EA		4" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	172.74	
33 01 30 51-0246	EA		5" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	220.48	
33 01 30 51-0247	EA		5" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	221.76	
33 01 30 51-0248	EA		5" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	280.73	
33 01 30 51-0249	EA		6" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	234.45	
33 01 30 51-0250	EA		6" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	241.22	
33 01 30 51-0251	EA		6" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	243.83	
33 01 30 51-0252	EA		8" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	286.15	
33 01 30 51-0253	EA		8" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	288.72	
33 01 30 51-0254	EA		8" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	292.86	
33 01 30 51-0255	EA		10" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	328.64	
33 01 30 51-0256	EA		10" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	361.79	
33 01 30 51-0257	EA		12" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	372.39	
33 01 30 51-0258	EA		12" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	441.97	
33 01 30 51-0259	EA		14" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	502.34	
33 01 30 51-0260	EA		16" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	586.40	
33 01 30 51-0261	EA		18" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	644.64	
33 01 30 51-0262	EA		20" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	694.42	
33 01 30 51-0263	EA		22" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	831.31	
33 01 30 51-0264	EA		24" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	877.19	

33 01 30 51-0265 Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna N gasket, protected. Dresser style 38.

33 01 30 51-0266	EA		1/2" Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected.....	44.79	
33 01 30 51-0267	EA		3/4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	54.70	
33 01 30 51-0268	EA		1" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	64.89	
33 01 30 51-0269	EA		1-1/2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	80.17	
33 01 30 51-0270	EA		2" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	100.43	
33 01 30 51-0271	EA		2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	112.04	
33 01 30 51-0272	EA		2" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	115.90	
33 01 30 51-0273	EA		3" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	145.35	
33 01 30 51-0274	EA		3" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	147.95	
33 01 30 51-0275	EA		3" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	150.55	
33 01 30 51-0276	EA		4" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	174.91	
33 01 30 51-0277	EA		4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	184.18	
33 01 30 51-0278	EA		4" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	187.71	
33 01 30 51-0279	EA		5" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	220.48	
33 01 30 51-0280	EA		5" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	221.76	
33 01 30 51-0281	EA		5" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	236.64	
33 01 30 51-0282	EA		6" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	234.45	
33 01 30 51-0283	EA		6" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	241.22	
33 01 30 51-0284	EA		6" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	243.83	
33 01 30 51-0285	EA		8" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	286.15	
33 01 30 51-0286	EA		8" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	288.72	
33 01 30 51-0287	EA		8" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	292.86	
33 01 30 51-0288	EA		10" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	328.64	
33 01 30 51-0289	EA		10" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	361.79	
33 01 30 51-0290	EA		12" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	372.39	
33 01 30 51-0291	EA		12" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	441.97	
33 01 30 51-0292	EA		14" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	502.34	
33 01 30 51-0293	EA		16" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	576.65	
33 01 30 51-0294	EA		18" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	644.64	
33 01 30 51-0295	EA		20" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	694.42	
33 01 30 51-0296	EA		22" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	831.31	
33 01 30 51-0297	EA		24" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	877.19	

33 01 30 51-0298 Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes high temperature carded glass gasket, protected. Dresser style 38.

33 01 30 51-0299	EA		3/4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	71.01	
33 01 30 51-0300	EA		1" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	79.80	
33 01 30 51-0301	EA		1-1/2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	89.26	
33 01 30 51-0302	EA		2" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket.....	127.92	
33 01 30 51-0303	EA		2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	135.04	
33 01 30 51-0304	EA		2" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	138.66	
33 01 30 51-0305	EA		3" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	170.41	
33 01 30 51-0306	EA		3" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	169.59	
33 01 30 51-0307	EA		4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	197.18	
33 01 30 51-0308	EA		4" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	200.71	
33 01 30 51-0309	EA		5" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	262.12	
33 01 30 51-0310	EA		5" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	266.80	
33 01 30 51-0311	EA		6" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	285.32	
33 01 30 51-0312	EA		6" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	288.43	
33 01 30 51-0313	EA		8" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket.....	308.45	
33 01 30 51-0314	EA		8" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	354.97	
33 01 30 51-0315	EA		8" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	373.94	
33 01 30 51-0316	EA		10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	393.37	
33 01 30 51-0317	EA		10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	393.31	

33 Utilities
33 01 Operation And Maintenance Of Utilities
33 01 30 Operation And Maintenance Of Sewer Utilities



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 01 30 51-0318	EA	12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	483.11	
33 01 30 51-0319	EA	12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	497.40	
33 01 30 51-0320	EA	14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	567.63	
33 01 30 51-0321	EA	16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	687.03	
33 01 30 51-0322	EA	18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	688.84	
33 01 30 51-0323	EA	20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	761.37	
33 01 30 51-0324	EA	22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	822.86	
33 01 30 51-0325	EA	24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	890.19	

33 01 30 51-0326 Temporary Pipe Plugging (33 01 30 51-0001)

33 01 30 51-0327 Gravity Bladder Pipe Plugging (33 01 30 51-0326)

Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.

33 01 30 51-0328	EA	3/4" Bladder Type Pipe Plug.....	62.79	
33 01 30 51-0329	EA	1" Bladder Type Pipe Plug.....	67.27	
33 01 30 51-0330	EA	1-1/4" Bladder Type Pipe Plug.....	73.07	
33 01 30 51-0331	EA	1-1/2" Bladder Type Pipe Plug.....	78.35	
33 01 30 51-0332	EA	2" Bladder Type Pipe Plug.....	83.36	
33 01 30 51-0333	EA	2-1/2" Bladder Type Pipe Plug.....	89.14	
33 01 30 51-0334	EA	3" Bladder Type Pipe Plug.....	96.90	
33 01 30 51-0335	EA	4" Bladder Type Pipe Plug.....	106.79	
33 01 30 51-0336	EA	5" Bladder Type Pipe Plug.....	115.59	
33 01 30 51-0337	EA	6" Bladder Type Pipe Plug.....	128.76	
33 01 30 51-0338	EA	8" Bladder Type Pipe Plug.....	143.08	
33 01 30 51-0339	EA	10" Bladder Type Pipe Plug.....	165.73	
33 01 30 51-0340	EA	12" Bladder Type Pipe Plug.....	197.44	
33 01 30 51-0341	EA	14" Bladder Type Pipe Plug.....	234.32	
33 01 30 51-0342	EA	16" Bladder Type Pipe Plug.....	282.01	
33 01 30 51-0343	EA	18" Bladder Type Pipe Plug.....	339.30	
33 01 30 51-0344	EA	20" Bladder Type Pipe Plug.....	406.58	
33 01 30 51-0345	EA	24" Bladder Type Pipe Plug.....	470.54	

33 01 30 51-0346 Hydra Stop, Hot Tapping Of Pressure Pipe (33 01 30 51-0326)

Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device.

33 01 30 51-0347	EA	2" Hydra Stop, Line Stopper.....	1,726.05	
33 01 30 51-0348	EA	2-1/2" Hydra Stop, Line Stopper.....	2,164.94	
33 01 30 51-0349	EA	3" Hydra Stop, Line Stopper.....	2,648.11	
33 01 30 51-0350	EA	4" Hydra Stop, Line Stopper.....	3,230.71	
33 01 30 51-0351	EA	5" Hydra Stop, Line Stopper.....	3,687.87	
33 01 30 51-0352	EA	6" Hydra Stop, Line Stopper.....	4,454.58	
33 01 30 51-0353	EA	8" Hydra Stop, Line Stopper.....	4,911.75	
33 01 30 51-0354	EA	10" Hydra Stop, Line Stopper.....	5,678.44	
33 01 30 51-0355	EA	12" Hydra Stop, Line Stopper.....	6,445.15	
33 01 30 51-0356	EA	14" Hydra Stop, Line Stopper.....	7,248.76	
33 01 30 51-0357	EA	16" Hydra Stop, Line Stopper.....	8,273.79	
33 01 30 51-0358	EA	18" Hydra Stop, Line Stopper.....	9,409.48	
33 01 30 51-0359	EA	20" Hydra Stop, Line Stopper.....	11,061.68	

33 01 30 51-0360 Aluminum Expansion Plugs (33 01 30 51-0326)

Note: For use with PVC, clay Or cast iron drainage pipe.

33 01 30 51-0361	EA	3" Pipe Plug.....	47.39	
33 01 30 51-0362	EA	4" Pipe Plug.....	66.71	
33 01 30 51-0363	EA	5" Pipe Plug.....	75.03	
33 01 30 51-0364	EA	6" Pipe Plug.....	111.98	
33 01 30 51-0365	EA	8" Pipe Plug.....	115.28	
33 01 30 51-0366	EA	10" Pipe Plug.....	143.25	
33 01 30 51-0367	EA	12" Pipe Plug.....	192.02	
33 01 30 51-0368	EA	14" Pipe Plug.....	306.73	
33 01 30 51-0369	EA	15" Pipe Plug.....	331.89	

33 01 30 51-0370 Pipe Repair Clamp, Stainless Steel, 3" Long (33 01 30 51-0001)

33 01 30 51-0371	EA	1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	125.23	
33 01 30 51-0372	EA	3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	125.41	
33 01 30 51-0373	EA	1" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	125.85	
33 01 30 51-0374	EA	1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	126.29	
33 01 30 51-0375	EA	1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	126.51	
33 01 30 51-0376	EA	2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	127.17	
33 01 30 51-0377	EA	2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	127.83	
33 01 30 51-0378	EA	3" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	128.71	
33 01 30 51-0379	EA	4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	230.26	
33 01 30 51-0380	EA	6" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	233.12	
33 01 30 51-0381	EA	8" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	235.11	
33 01 30 51-0382	EA	10" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	256.06	
33 01 30 51-0383	EA	12" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	258.71	
33 01 30 51-0384	EA	14" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	260.48	
33 01 30 51-0385	EA	16" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	263.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0386 EA 18" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	265.77	
33 01 30 51-0387 EA 20" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	269.30	
33 01 30 51-0388 EA 24" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	275.47	
33 01 30 51-0389 Polyseal Pipe Coupler (33 01 30 51-0001)		
33 01 30 51-0390 EA 18" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	249.86	
33 01 30 51-0391 EA 24" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	282.51	
33 01 30 61 Sewer and Pipe Joint Sealing (33 01 30)		
33 01 30 61-0001 Joint Air Test (33 01 30 61)		
33 01 30 61-0002 EA 4" To 8", Joint Air Test.....	79.82	
33 01 30 61-0003 EA 10" To 15", Joint Air Test.....	93.12	
33 01 30 61-0004 EA >15" To 21", Joint Air Test.....	106.43	
33 01 30 61-0005 EA >21" To 24", Joint Air Test.....	133.04	
33 01 30 61-0006 EA >24" To 27", Joint Air Test.....	159.64	
33 01 30 61-0007 EA >27" To 36", Joint Air Test.....	186.25	
33 01 30 61-0008 Joint Seal And Joint Air Retest (33 01 30 61)		
Note: Includes grout.		
33 01 30 61-0009 EA 4" Joint Seal And Joint Air Retest.....	232.75	
Note: Includes up to 1 gallon of grout.		
33 01 30 61-0010 EA 6" Joint Seal And Joint Air Retest.....	259.36	
Note: Includes 1 gallon of grout.		
33 01 30 61-0011 EA 8" Joint Seal And Joint Air Retest.....	305.85	
Note: Includes 2 gallons of grout.		
33 01 30 61-0012 EA 10" Joint Seal And Joint Air Retest.....	342.41	
Note: Includes 2.5 gallons of grout.		
33 01 30 61-0013 EA 12" Joint Seal And Joint Air Retest.....	378.97	
Note: Includes 3 gallons of grout.		
33 01 30 61-0014 EA 15" Joint Seal And Joint Air Retest.....	447.10	
Note: Includes 3.75 gallons of grout.		
33 01 30 61-0015 EA 18" Joint Seal And Joint Air Retest.....	515.24	
Note: Includes 4.5 gallons of grout.		
33 01 30 61-0016 EA 21" Joint Seal And Joint Air Retest.....	583.37	
Note: Includes 5.25 gallons of grout.		
33 01 30 61-0017 EA 24" Joint Seal And Joint Air Retest.....	678.13	
Note: Includes 6 gallons of grout.		
33 01 30 61-0018 EA 27" Joint Seal And Joint Air Retest.....	772.86	
Note: Includes 6.75 gallons of grout.		
33 01 30 61-0019 EA 30" Joint Seal And Joint Air Retest.....	894.21	
Note: Includes 7.5 gallons of grout.		
33 01 30 61-0020 EA 36" Joint Seal And Joint Air Retest.....	1,030.48	
Note: Includes 9 gallons of grout.		
33 01 30 61-0021 GAL Extra Grout Per Joint.....	126.33	
Note: For extra grout per joint required over listed amount.		
33 01 30 70 Rehabilitation Of Sewer Utilities (33 01 30)		
33 01 30 70-0001 Cementitious Pipe Coatings By Hand (33 01 30 70)		
Note: To be used on repair areas to install the coating on the exposed portion of the pipe.		
33 01 30 70-0002 SF Up To 1" Thick Cementitious Coating On Pipe, Troweled On.....	6.57	
33 01 30 70-0003 SF >1" To 2" Thick Cementitious Coating On Pipe, Troweled On.....	9.63	
33 01 30 71 Relining Sewer Utilities Pipelines (33 01 30)		
33 01 30 71-0001 Relining Underground Pipelines (33 01 30 71)		
Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners backups, 32 01 17 63-0000 for temporary pavement, 32 12 16 00-0000 for permanent pavement, 33 01 30 11-0000 for CCTV Inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 71-0002 Relining Underground Pipelines Set-Up And Reinsertion (33 01 30 71-0001)		
33 01 30 71-0003 EA Initial Set Up And Final Equipment Removal For Relining Underground Pipelines.....	4,124.64	
33 01 30 71-0004 EA Move And Reset Up At Different Access/Location For Relining Underground Pipelines.....	1,649.86	
33 01 30 71-0005 Lining Pipe With Polyester Resin Impregnated Cured In-Place Pipe (CIPP) (33 01 30 71-0001)		
Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting.		
33 01 30 71-0006 Relining Underground Pipelines Set-Up And Reinsertion For CIPP (33 01 30 71-0005)		
33 01 30 71-0007 EA Initial Set Up And Final Equipment Removal For Relining Underground Pipelines CIPP.....	4,124.64	
33 01 30 71-0008 EA Move And Reset Up At Different Access/Location For Relining Underground Pipelines CIPP.....	1,649.86	
33 01 30 71-0009 EA Mixing Truck And Refrigeration For 12" To 24" CIPP.....	4,124.64	
Note: Need to mix wet material in bag prior to installation.		
33 01 30 71-0010 EA Mixing Truck And Refrigeration For 27" To 48" CIPP.....	8,249.29	
Note: Need to mix wet material in bag prior to installation.		

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0011 EA Mixing Truck And Refrigeration For 54" To 72" CIPP Note: Need to mix wet material in bag prior to installation.	12,373.93	
33 01 30 71-0012 6mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0013 LF 6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	53.62	
33 01 30 71-0014 7.5mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0015 LF 7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	57.22	
33 01 30 71-0016 LF 7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	67.89	
33 01 30 71-0017 LF 7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	79.90	
33 01 30 71-0018 9mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0019 LF 9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	60.67	
33 01 30 71-0020 LF 9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	71.63	
33 01 30 71-0021 LF 9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	84.32	
33 01 30 71-0022 LF 9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	102.06	
33 01 30 71-0023 LF 9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	111.00	
33 01 30 71-0024 10.5mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0025 LF 10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	75.85	
33 01 30 71-0026 LF 10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	89.27	
33 01 30 71-0027 LF 10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	105.22	
33 01 30 71-0028 LF 10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	117.13	
33 01 30 71-0029 LF 10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	130.70	
33 01 30 71-0030 LF 10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	146.33	
33 01 30 71-0031 LF 10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	170.55	
33 01 30 71-0032 12mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0033 LF 12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	82.18	
33 01 30 71-0034 LF 12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	96.86	
33 01 30 71-0035 LF 12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	109.90	
33 01 30 71-0036 LF 12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	124.60	
33 01 30 71-0037 LF 12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	139.32	
33 01 30 71-0038 LF 12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	155.68	
33 01 30 71-0039 LF 12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	180.25	
33 01 30 71-0040 LF 12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	211.12	
33 01 30 71-0041 LF 12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	245.39	
33 01 30 71-0042 13.5mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0043 LF 13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	87.02	
33 01 30 71-0044 LF 13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	101.61	
33 01 30 71-0045 LF 13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	116.54	
33 01 30 71-0046 LF 13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	131.54	
33 01 30 71-0047 LF 13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	147.71	
33 01 30 71-0048 LF 13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	164.63	
33 01 30 71-0049 LF 13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	191.33	
33 01 30 71-0050 LF 13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	218.75	
33 01 30 71-0051 LF 13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	257.47	
33 01 30 71-0052 15mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0053 LF 15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	91.05	
33 01 30 71-0054 LF 15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	107.67	
33 01 30 71-0055 LF 15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	122.81	
33 01 30 71-0056 LF 15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	139.18	
33 01 30 71-0057 LF 15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	155.77	
33 01 30 71-0058 LF 15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	169.54	
33 01 30 71-0059 LF 15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	201.37	
33 01 30 71-0060 LF 15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	231.24	
33 01 30 71-0061 LF 15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	271.62	
33 01 30 71-0062 16.5mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0063 LF 16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	113.00	
33 01 30 71-0064 LF 16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	129.05	
33 01 30 71-0065 LF 16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	146.57	
33 01 30 71-0066 LF 16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	163.84	
33 01 30 71-0067 LF 16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	194.64	
33 01 30 71-0068 LF 16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	209.86	
33 01 30 71-0069 LF 16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	243.69	
33 01 30 71-0070 LF 16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	285.77	
33 01 30 71-0071 LF 16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	330.92	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0072				18mm Thick Lining Cured In-Place Pipe <small>(33 01 30 71-0005)</small>		
			LF	18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	120.20	
			LF	18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	137.18	
			LF	18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	155.38	
			LF	18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	174.36	
			LF	18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	195.07	
			LF	18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	226.91	
			LF	18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	257.48	
			LF	18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	304.24	
			LF	18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	351.98	
			LF	18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	411.32	
			LF	18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	489.48	
			LF	18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	582.63	
33 01 30 71-0085				19.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 71-0005)</small>		
			LF	19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	125.46	
			LF	19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	142.12	
			LF	19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	163.00	
			LF	19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	182.38	
			LF	19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	203.50	
			LF	19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	237.97	
			LF	19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	272.01	
			LF	19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	323.23	
			LF	19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	368.01	
			LF	19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	430.54	
			LF	19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	510.62	
			LF	19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	605.70	
33 01 30 71-0098				21mm Thick Lining Cured In-Place Pipe <small>(33 01 30 71-0005)</small>		
			LF	21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	129.94	
			LF	21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	146.82	
			LF	21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	172.52	
			LF	21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	193.08	
			LF	21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	215.37	
			LF	21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	252.09	
			LF	21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	288.12	
			LF	21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	337.25	
			LF	21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	389.50	
			LF	21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	452.44	
			LF	21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	536.58	
			LF	21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	636.44	
33 01 30 71-0111				22.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 71-0005)</small>		
			LF	22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	133.29	
			LF	22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	152.65	
			LF	22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	179.34	
			LF	22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	201.01	
			LF	22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	224.38	
			LF	22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	262.75	
			LF	22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	300.50	
			LF	22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	351.20	
			LF	22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	405.45	
			LF	22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	470.02	
			LF	22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	555.91	
			LF	22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	657.54	
33 01 30 71-0124				24mm Thick Lining Cured In-Place Pipe <small>(33 01 30 71-0005)</small>		
			LF	24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	140.40	
			LF	24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	160.55	
			LF	24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	188.94	
			LF	24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	211.75	
			LF	24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	235.51	
			LF	24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	277.15	
			LF	24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	316.67	
			LF	24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	370.29	
			LF	24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	432.87	
			LF	24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	498.46	
			LF	24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	589.13	
			LF	24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	696.34	
33 01 30 71-0137				25.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 71-0005)</small>		
			LF	25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	166.24	
			LF	25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	196.00	
			LF	25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	214.07	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0141 LF 25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	245.12	
33 01 30 71-0142 LF 25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	287.89	
33 01 30 71-0143 LF 25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	329.06	
33 01 30 71-0144 LF 25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	384.23	
33 01 30 71-0145 LF 25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	441.37	
33 01 30 71-0146 LF 25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	511.90	
33 01 30 71-0147 LF 25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	603.91	
33 01 30 71-0148 LF 25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	712.64	
33 01 30 71-0149 27mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0150 LF 27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	174.42	
33 01 30 71-0151 LF 27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	205.53	
33 01 30 71-0152 LF 27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	222.54	
33 01 30 71-0153 LF 27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	257.20	
33 01 30 71-0154 LF 27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	300.54	
33 01 30 71-0155 LF 27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	356.87	
33 01 30 71-0156 LF 27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	403.30	
33 01 30 71-0157 LF 27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	464.85	
33 01 30 71-0158 LF 27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	538.18	
33 01 30 71-0159 LF 27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	634.86	
33 01 30 71-0160 LF 27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	748.91	
33 01 30 71-0161 28.5mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0162 LF 28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	212.38	
33 01 30 71-0163 LF 28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	231.13	
33 01 30 71-0164 LF 28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	228.69	
33 01 30 71-0165 LF 28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	313.00	
33 01 30 71-0166 LF 28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	362.33	
33 01 30 71-0167 LF 28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	417.12	
33 01 30 71-0168 LF 28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	480.65	
33 01 30 71-0169 LF 28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	555.59	
33 01 30 71-0170 LF 28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	654.02	
33 01 30 71-0171 LF 28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	769.81	
33 01 30 71-0172 30mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0173 LF 30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	217.94	
33 01 30 71-0174 LF 30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	240.48	
33 01 30 71-0175 LF 30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	278.08	
33 01 30 71-0176 LF 30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	327.44	
33 01 30 71-0177 LF 30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	374.18	
33 01 30 71-0178 LF 30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	436.32	
33 01 30 71-0179 LF 30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	502.77	
33 01 30 71-0180 LF 30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	581.25	
33 01 30 71-0181 LF 30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	684.41	
33 01 30 71-0182 LF 30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	805.77	
33 01 30 71-0183 31.5mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0184 LF 31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	220.63	
33 01 30 71-0185 LF 31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	247.83	
33 01 30 71-0186 LF 31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	276.53	
33 01 30 71-0187 LF 31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	336.72	
33 01 30 71-0188 LF 31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	386.34	
33 01 30 71-0189 LF 31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	450.32	
33 01 30 71-0190 LF 31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	518.53	
33 01 30 71-0191 LF 31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	598.76	
33 01 30 71-0192 LF 31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	703.66	
33 01 30 71-0193 LF 31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	826.77	
33 01 30 71-0194 33mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0195 LF 33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	230.44	
33 01 30 71-0196 LF 33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	258.42	
33 01 30 71-0197 LF 33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	288.40	
33 01 30 71-0198 LF 33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	352.77	
33 01 30 71-0199 LF 33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	403.20	
33 01 30 71-0200 LF 33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	469.78	
33 01 30 71-0201 LF 33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	540.83	
33 01 30 71-0202 LF 33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	624.81	
33 01 30 71-0203 LF 33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	734.56	
33 01 30 71-0204 LF 33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	863.42	
33 01 30 71-0205 34.5mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0206 LF 34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	265.71	
33 01 30 71-0207 LF 34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	296.53	
33 01 30 71-0208 LF 34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	356.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0209 LF 34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	415.08	
33 01 30 71-0210 LF 34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	481.67	
33 01 30 71-0211 LF 34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	556.47	
33 01 30 71-0212 LF 34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	640.92	
33 01 30 71-0213 LF 34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	752.28	
33 01 30 71-0214 LF 34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	882.75	
33 01 30 71-0215 36mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0216 LF 36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	276.40	
33 01 30 71-0217 LF 36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	308.48	
33 01 30 71-0218 LF 36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	364.15	
33 01 30 71-0219 LF 36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	432.09	
33 01 30 71-0220 LF 36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	503.06	
33 01 30 71-0221 LF 36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	579.06	
33 01 30 71-0222 LF 36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	668.36	
33 01 30 71-0223 LF 36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	784.82	
33 01 30 71-0224 LF 36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	921.38	
33 01 30 71-0225 37.5mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0226 LF 37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	316.75	
33 01 30 71-0227 LF 37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	374.00	
33 01 30 71-0228 LF 37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	443.88	
33 01 30 71-0229 LF 37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	516.92	
33 01 30 71-0230 LF 37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	592.53	
33 01 30 71-0231 LF 37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	684.51	
33 01 30 71-0232 LF 37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	802.59	
33 01 30 71-0233 LF 37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	940.76	
33 01 30 71-0234 39mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0235 LF 39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	388.56	
33 01 30 71-0236 LF 39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	461.15	
33 01 30 71-0237 LF 39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	536.73	
33 01 30 71-0238 LF 39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	617.55	
33 01 30 71-0239 LF 39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	712.41	
33 01 30 71-0240 LF 39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	835.75	
33 01 30 71-0241 LF 39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	980.21	
33 01 30 71-0242 40.5mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0243 LF 40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	462.27	
33 01 30 71-0244 LF 40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	550.23	
33 01 30 71-0245 LF 40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	633.05	
33 01 30 71-0246 LF 40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	729.45	
33 01 30 71-0247 LF 40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	854.51	
33 01 30 71-0248 LF 40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,000.67	
33 01 30 71-0249 42mm Thick Lining Cured In-Place Pipe (33 01 30 71-0005)		
33 01 30 71-0250 LF 42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	570.29	
33 01 30 71-0251 LF 42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	656.22	
33 01 30 71-0252 LF 42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	756.55	
33 01 30 71-0253 LF 42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	886.92	
33 01 30 71-0254 LF 42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,039.44	
33 01 30 71-0255 Form And Fold Polyethylene (PE) Pipeliner (33 01 30 71-0001)		
33 01 30 71-0256 LF 4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	29.64	
<i>For DR 26 Pipe Liner, Add</i>	5.20	
<i>For >500 To 1,000, Deduct</i>	-0.66	
<i>For >1,000 To 2,000, Deduct</i>	-1.33	
<i>For >2,000, Deduct</i>	-2.65	
33 01 30 71-0257 LF 6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	37.78	
<i>For DR 26 Pipe Liner, Add</i>	7.07	
<i>For DR 35 Pipe Liner, Deduct</i>	-3.53	
<i>For >500 To 1,000, Deduct</i>	-0.71	
<i>For >1,000 To 2,000, Deduct</i>	-1.43	
<i>For >2,000, Deduct</i>	-2.86	
33 01 30 71-0258 LF 8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	39.09	
<i>For DR 26 Pipe Liner, Add</i>	7.20	
<i>For DR 35 Pipe Liner, Deduct</i>	-3.60	
<i>For >500 To 1,000, Deduct</i>	-0.77	
<i>For >1,000 To 2,000, Deduct</i>	-1.55	
<i>For >2,000, Deduct</i>	-3.09	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0259 LF 10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	54.42	
For DR 26 Pipe Liner, Add	10.79	
For DR 35 Pipe Liner, Deduct	-5.40	
For DR 41 Pipe Liner, Deduct	-10.79	
For >500 To 1,000, Deduct	-0.84	
For >1,000 To 2,000, Deduct	-1.69	
For >2,000, Deduct	-3.38	
33 01 30 71-0260 LF 12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	75.56	
For DR 26 Pipe Liner, Add	15.80	
For DR 35 Pipe Liner, Deduct	-7.90	
For DR 41 Pipe Liner, Deduct	-15.80	
For >500 To 1,000, Deduct	-0.93	
For >1,000 To 2,000, Deduct	-1.86	
For >2,000, Deduct	-3.71	
33 01 30 71-0261 LF 15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	103.03	
For DR 35 Pipe Liner, Deduct	-11.12	
For DR 41 Pipe Liner, Deduct	-22.24	
For >500 To 1,000, Deduct	-1.06	
For >1,000 To 2,000, Deduct	-2.11	
For >2,000, Deduct	-4.22	
33 01 30 71-0262 LF 18" Diameter Form and Fold Polyethylene Pipeliner, DR 35	144.86	
For DR 41 Pipe Liner, Deduct	-12.90	
For DR 50 Pipe Liner, Deduct	-25.80	
For >500 To 1,000, Deduct	-1.19	
For >1,000 To 2,000, Deduct	-2.38	
For >2,000, Deduct	-4.76	
33 01 30 71-0263 LF 21" Diameter Form and Fold Polyethylene Pipeliner, DR 47	163.71	
For DR 50 Pipe Liner, Deduct	-21.98	
For DR 55 Pipe Liner, Deduct	-36.63	
For >500 To 1,000, Deduct	-1.29	
For >1,000 To 2,000, Deduct	-2.58	
For >2,000, Deduct	-5.16	
33 01 30 71-0264 LF 24" Diameter Form and Fold Polyethylene Pipeliner, DR 55	199.28	
For DR 60 Pipe Liner, Deduct	-27.08	
For >500 To 1,000, Deduct	-1.41	
For >1,000 To 2,000, Deduct	-2.81	
For >2,000, Deduct	-5.63	
33 01 30 71-0265 Form And Fold Polyvinyl Chloride (PVC) Pipeliner <small>(33 01 30 71-0001)</small>		
33 01 30 71-0266 LF 4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	31.60	
For DR 26 Pipe Liner, Add	5.69	
For >500 To 1,000, Deduct	-0.66	
For >1,000 To 2,000, Deduct	-1.33	
For >2,000, Deduct	-2.65	
33 01 30 71-0267 LF 6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	37.78	
For DR 26 Pipe Liner, Add	7.07	
For DR 35 Pipe Liner, Deduct	-3.53	
For >500 To 1,000, Deduct	-0.71	
For >1,000 To 2,000, Deduct	-1.43	
For >2,000, Deduct	-2.86	
33 01 30 71-0268 LF 8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	41.71	
For DR 26 Pipe Liner, Add	7.85	
For DR 35 Pipe Liner, Deduct	-3.93	
For >500 To 1,000, Deduct	-0.77	
For >1,000 To 2,000, Deduct	-1.55	
For >2,000, Deduct	-3.09	
33 01 30 71-0269 LF 10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	58.34	
For DR 26 Pipe Liner, Add	11.77	
For DR 35 Pipe Liner, Deduct	-5.89	
For DR 41 Pipe Liner, Deduct	-11.77	
For >500 To 1,000, Deduct	-0.84	
For >1,000 To 2,000, Deduct	-1.69	
For >2,000, Deduct	-3.38	
33 01 30 71-0270 LF 12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	81.45	
For DR 26 Pipe Liner, Add	17.27	
For DR 35 Pipe Liner, Deduct	-8.63	
For DR 41 Pipe Liner, Deduct	-17.27	
For >500 To 1,000, Deduct	-0.93	
For >1,000 To 2,000, Deduct	-1.86	
For >2,000, Deduct	-3.71	
33 01 30 71-0271 LF 15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	111.40	
For DR 35 Pipe Liner, Deduct	-12.17	
For DR 41 Pipe Liner, Deduct	-24.33	
For >500 To 1,000, Deduct	-1.06	
For >1,000 To 2,000, Deduct	-2.11	
For >2,000, Deduct	-4.22	
33 01 30 71-0272 LF 18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35.....	157.15	
For DR 41 Pipe Liner, Deduct	-14.13	
For DR 50 Pipe Liner, Deduct	-28.26	
For >500 To 1,000, Deduct	-1.19	
For >1,000 To 2,000, Deduct	-2.38	
For >2,000, Deduct	-4.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0273 LF 21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47.....	177.31	
<i>For DR 50 Pipe Liner, Deduct</i>	-24.02	
<i>For DR 55 Pipe Liner, Deduct</i>	-40.03	
<i>For >500 To 1,000, Deduct</i>	-1.29	
<i>For >1,000 To 2,000, Deduct</i>	-2.58	
<i>For >2,000, Deduct</i>	-5.16	
33 01 30 71-0274 LF 24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55.....	216.55	
<i>For DR 60 Pipe Liner, Deduct</i>	-29.67	
<i>For >500 To 1,000, Deduct</i>	-1.41	
<i>For >1,000 To 2,000, Deduct</i>	-2.81	
<i>For >2,000, Deduct</i>	-5.63	
33 01 30 71-0275 Pumped Grouting For Slip-Lining Systems <small>(33 01 30 71-0001)</small>		
Note: Includes all materials, embedded piping, forms, labor and pumping equipment necessary to place and install grout.		
33 01 30 71-0276 CY Flowable Fill Grout, For Pipe Relines	486.72	
33 01 30 71-0277 Solid Wall High Density Polyethylene (HDPE) Culvert Slip-Lining System <small>(33 01 30 71-0001)</small>		
Note: Snap-Tite slip-lining system. Excludes culvert cleaning and grouting. See CSI section 33 01 30 41-0018 for culvert cleaning, 33 01 30 71-0275 for flowable fill grout.		
33 01 30 71-0278 LF 6.625" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	16.54	
<i>For Profile Wall (Corrugated), Deduct</i>	-2.48	
33 01 30 71-0279 LF 8.625" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	24.60	
<i>For Profile Wall (Corrugated), Deduct</i>	-3.89	
33 01 30 71-0280 LF 10.75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	23.26	
<i>For Profile Wall (Corrugated), Deduct</i>	-3.45	
33 01 30 71-0281 LF 12.75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	30.62	
<i>For Profile Wall (Corrugated), Deduct</i>	-4.66	
33 01 30 71-0282 LF 14" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	35.13	
<i>For Profile Wall (Corrugated), Deduct</i>	-5.22	
33 01 30 71-0283 LF 16" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	42.14	
<i>For Profile Wall (Corrugated), Deduct</i>	-6.50	
33 01 30 71-0284 LF 18" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	52.96	
<i>For Profile Wall (Corrugated), Deduct</i>	-8.19	
33 01 30 71-0285 LF 20" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	64.81	
<i>For Profile Wall (Corrugated), Deduct</i>	-10.21	
33 01 30 71-0286 LF 22" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	74.68	
<i>For Profile Wall (Corrugated), Deduct</i>	-11.85	
33 01 30 71-0287 LF 24" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	85.39	
<i>For Profile Wall (Corrugated), Deduct</i>	-13.64	
33 01 30 71-0288 LF 26" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	97.34	
<i>For Profile Wall (Corrugated), Deduct</i>	-15.09	
33 01 30 71-0289 LF 28" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	109.69	
<i>For Profile Wall (Corrugated), Deduct</i>	-17.82	
33 01 30 71-0290 LF 30" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	126.78	
<i>For Profile Wall (Corrugated), Deduct</i>	-20.89	
33 01 30 71-0291 LF 32" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	144.72	
<i>For Profile Wall (Corrugated), Deduct</i>	-24.13	
33 01 30 71-0292 LF 34" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	159.81	
<i>For Profile Wall (Corrugated), Deduct</i>	-26.81	
33 01 30 71-0293 LF 36" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	174.91	
<i>For Profile Wall (Corrugated), Deduct</i>	-29.49	
33 01 30 71-0294 LF 39.37" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	199.56	
<i>For Profile Wall (Corrugated), Deduct</i>	-34.07	
33 01 30 71-0295 LF 42" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	224.23	
<i>For Profile Wall (Corrugated), Deduct</i>	-38.66	
33 01 30 71-0296 LF 48" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	287.26	
<i>For Profile Wall (Corrugated), Deduct</i>	-50.93	
33 01 30 71-0297 LF 54" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	349.50	
<i>For Profile Wall (Corrugated), Deduct</i>	-63.03	
33 01 30 71-0298 LF 57" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	386.88	
<i>For Profile Wall (Corrugated), Deduct</i>	-70.16	
33 01 30 71-0299 LF 60" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	423.92	
<i>For Profile Wall (Corrugated), Deduct</i>	-77.23	
33 01 30 71-0300 LF 63" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	461.66	
<i>For Profile Wall (Corrugated), Deduct</i>	-84.43	
33 01 30 71-0301 LF 66" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	517.94	
<i>For Profile Wall (Corrugated), Deduct</i>	-95.17	
33 01 30 71-0302 LF 72" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	550.10	
<i>For Profile Wall (Corrugated), Deduct</i>	-100.92	
33 01 30 71-0303 LF 78" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	585.14	
<i>For Profile Wall (Corrugated), Deduct</i>	-107.07	
33 01 30 71-0304 LF 84" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	634.98	
<i>For Profile Wall (Corrugated), Deduct</i>	-116.35	
33 01 30 71-0305 LF 90" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	650.31	
<i>For Profile Wall (Corrugated), Deduct</i>	-118.73	
33 01 30 71-0306 LF 96" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	659.78	
<i>For Profile Wall (Corrugated), Deduct</i>	-119.76	
33 01 30 71-0307 LF 16.5 x 23" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	86.15	
<i>For Profile Wall (Corrugated), Deduct</i>	-13.76	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0308 LF 17" x 26" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	96.75	
For Profile Wall (Corrugated), Deduct	-15.24	
33 01 30 71-0309 LF 18" x 29" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	106.65	
33 01 30 71-0310 LF 19" x 32" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	123.00	
For Profile Wall (Corrugated), Deduct	-19.58	
33 01 30 71-0311 LF 21" x 33.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	134.91	
For Profile Wall (Corrugated), Deduct	-21.50	
33 01 30 71-0312 LF 22.5 x 36" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	151.11	
For Profile Wall (Corrugated), Deduct	-24.28	
33 01 30 71-0313 LF 26" x 37" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	168.16	
For Profile Wall (Corrugated), Deduct	-27.24	
33 01 30 71-0314 LF 30" x 41" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	201.15	
For Profile Wall (Corrugated), Deduct	-32.92	
33 01 30 71-0315 LF 31" x 46" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	225.65	
33 01 30 71-0316 LF 34" x 48.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	249.37	
For Profile Wall (Corrugated), Deduct	-41.65	
33 01 30 71-0317 LF 39" x 55.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	307.15	
For Profile Wall (Corrugated), Deduct	-52.75	
33 01 30 71-0318 LF 43" x 63" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	367.41	
For Profile Wall (Corrugated), Deduct	-64.35	
33 01 30 71-0319 LF 48" x 75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	467.46	
For Profile Wall (Corrugated), Deduct	-84.36	
33 01 30 71-0320 LF 52" x 72.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	474.31	
For Profile Wall (Corrugated), Deduct	-84.36	
33 01 30 71-0321 LF 58" x 67.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	474.31	
For Profile Wall (Corrugated), Deduct	-84.36	
33 01 30 71-0322 Lining Pipe, Spray Applied With Structural Polyurethane <small>(33 01 30 71-0001)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0323 Mobilization And Setup For Spray Applied Structural Polyurethane Lining <small>(33 01 30 71-0322)</small>		
33 01 30 71-0324 EA Initial Set Up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining.....	1,458.53	
33 01 30 71-0325 Lining Pipe, Spray Applied With 100 mil Structural Polyurethane <small>(33 01 30 71-0322)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0326 LF 36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane.....	37.41	
For Up To 75, Add	8.27	
For >75 To 150, Add	3.74	
For >500 To 1,000, Deduct	-1.06	
For >1,000 To 2,000, Deduct	-2.05	
For >2,000 To 5,000, Deduct	-3.19	
For >5,000, Deduct	-4.53	
33 01 30 71-0327 LF 42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane.....	43.64	
For Up To 75, Add	9.65	
For >75 To 150, Add	4.36	
For >500 To 1,000, Deduct	-1.24	
For >1,000 To 2,000, Deduct	-2.39	
For >2,000 To 5,000, Deduct	-3.72	
For >5,000, Deduct	-5.28	
33 01 30 71-0328 LF 48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane.....	49.88	
For Up To 75, Add	11.03	
For >75 To 150, Add	4.99	
For >500 To 1,000, Deduct	-1.42	
For >1,000 To 2,000, Deduct	-2.73	
For >2,000 To 5,000, Deduct	-4.25	
For >5,000, Deduct	-6.04	
33 01 30 71-0329 LF 54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane.....	56.12	
For Up To 75, Add	12.40	
For >75 To 150, Add	5.61	
For >500 To 1,000, Deduct	-1.59	
For >1,000 To 2,000, Deduct	-3.07	
For >2,000 To 5,000, Deduct	-4.78	
For >5,000, Deduct	-6.79	
33 01 30 71-0330 LF 60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane.....	62.35	
For Up To 75, Add	13.78	
For >75 To 150, Add	6.24	
For >500 To 1,000, Deduct	-1.77	
For >1,000 To 2,000, Deduct	-3.41	
For >2,000 To 5,000, Deduct	-5.31	
For >5,000, Deduct	-7.55	
33 01 30 71-0331 LF 66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane.....	68.58	
For Up To 75, Add	15.16	
For >75 To 150, Add	6.86	
For >500 To 1,000, Deduct	-1.95	
For >1,000 To 2,000, Deduct	-3.75	
For >2,000 To 5,000, Deduct	-5.85	
For >5,000, Deduct	-8.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0332 LF 72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	74.83	
<i>For Up To 75, Add</i>	16.54	
<i>For >75 To 150, Add</i>	7.48	
<i>For >500 To 1,000, Deduct</i>	-2.13	
<i>For >1,000 To 2,000, Deduct</i>	-4.09	
<i>For >2,000 To 5,000, Deduct</i>	-6.38	
<i>For >5,000, Deduct</i>	-9.06	
33 01 30 71-0333 LF 78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	81.05	
<i>For Up To 75, Add</i>	17.91	
<i>For >75 To 150, Add</i>	8.11	
<i>For >500 To 1,000, Deduct</i>	-2.30	
<i>For >1,000 To 2,000, Deduct</i>	-4.43	
<i>For >2,000 To 5,000, Deduct</i>	-6.91	
<i>For >5,000, Deduct</i>	-9.81	
33 01 30 71-0334 LF 84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	87.29	
<i>For Up To 75, Add</i>	19.29	
<i>For >75 To 150, Add</i>	8.73	
<i>For >500 To 1,000, Deduct</i>	-2.48	
<i>For >1,000 To 2,000, Deduct</i>	-4.78	
<i>For >2,000 To 5,000, Deduct</i>	-7.44	
<i>For >5,000, Deduct</i>	-10.56	
33 01 30 71-0335 LF 90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	93.52	
<i>For Up To 75, Add</i>	20.67	
<i>For >75 To 150, Add</i>	9.35	
<i>For >500 To 1,000, Deduct</i>	-2.66	
<i>For >1,000 To 2,000, Deduct</i>	-5.12	
<i>For >2,000 To 5,000, Deduct</i>	-7.97	
<i>For >5,000, Deduct</i>	-11.32	
33 01 30 71-0336 LF 96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	99.76	
<i>For Up To 75, Add</i>	22.05	
<i>For >75 To 150, Add</i>	9.98	
<i>For >500 To 1,000, Deduct</i>	-2.83	
<i>For >1,000 To 2,000, Deduct</i>	-5.46	
<i>For >2,000 To 5,000, Deduct</i>	-8.50	
<i>For >5,000, Deduct</i>	-12.07	
33 01 30 71-0337 LF 102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	106.00	
<i>For Up To 75, Add</i>	23.43	
<i>For >75 To 150, Add</i>	10.60	
<i>For >500 To 1,000, Deduct</i>	-3.01	
<i>For >1,000 To 2,000, Deduct</i>	-5.80	
<i>For >2,000 To 5,000, Deduct</i>	-9.03	
<i>For >5,000, Deduct</i>	-12.83	
33 01 30 71-0338 LF 108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	112.22	
<i>For Up To 75, Add</i>	24.80	
<i>For >75 To 150, Add</i>	11.22	
<i>For >500 To 1,000, Deduct</i>	-3.19	
<i>For >1,000 To 2,000, Deduct</i>	-6.14	
<i>For >2,000 To 5,000, Deduct</i>	-9.56	
<i>For >5,000, Deduct</i>	-13.58	
33 01 30 71-0339 LF 114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	118.47	
<i>For Up To 75, Add</i>	26.19	
<i>For >75 To 150, Add</i>	11.85	
<i>For >500 To 1,000, Deduct</i>	-3.37	
<i>For >1,000 To 2,000, Deduct</i>	-6.48	
<i>For >2,000 To 5,000, Deduct</i>	-10.10	
<i>For >5,000, Deduct</i>	-14.34	
33 01 30 71-0340 LF 120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	124.70	
<i>For Up To 75, Add</i>	27.56	
<i>For >75 To 150, Add</i>	12.47	
<i>For >500 To 1,000, Deduct</i>	-3.54	
<i>For >1,000 To 2,000, Deduct</i>	-6.82	
<i>For >2,000 To 5,000, Deduct</i>	-10.63	
<i>For >5,000, Deduct</i>	-15.09	
33 01 30 71-0341 SF Structure Lining, Spray Applied With 100 mil Structural Polyurethane	3.97	
33 01 30 71-0342 Lining Pipe, Spray Applied With 150 mil Structural Polyurethane <small>(33 01 30 71-0322)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0343 LF 36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	49.11	
<i>For Up To 75, Add</i>	10.65	
<i>For >75 To 150, Add</i>	4.91	
<i>For >500 To 1,000, Deduct</i>	-1.31	
<i>For >1,000 To 2,000, Deduct</i>	-2.54	
<i>For >2,000 To 5,000, Deduct</i>	-3.94	
<i>For >5,000, Deduct</i>	-5.74	
33 01 30 71-0344 LF 42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	57.28	
<i>For Up To 75, Add</i>	12.42	
<i>For >75 To 150, Add</i>	5.73	
<i>For >500 To 1,000, Deduct</i>	-1.53	
<i>For >1,000 To 2,000, Deduct</i>	-2.97	
<i>For >2,000 To 5,000, Deduct</i>	-4.60	
<i>For >5,000, Deduct</i>	-6.69	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0345 LF 48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	65.46	
For Up To 75, Add	14.20	
For >75 To 150, Add	6.55	
For >500 To 1,000, Deduct	-1.75	
For >1,000 To 2,000, Deduct	-3.39	
For >2,000 To 5,000, Deduct	-5.25	
For >5,000, Deduct	-7.65	
33 01 30 71-0346 LF 54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	73.65	
For Up To 75, Add	15.97	
For >75 To 150, Add	7.37	
For >500 To 1,000, Deduct	-1.97	
For >1,000 To 2,000, Deduct	-3.82	
For >2,000 To 5,000, Deduct	-5.91	
For >5,000, Deduct	-8.61	
33 01 30 71-0347 LF 60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	81.83	
For Up To 75, Add	17.75	
For >75 To 150, Add	8.18	
For >500 To 1,000, Deduct	-2.19	
For >1,000 To 2,000, Deduct	-4.24	
For >2,000 To 5,000, Deduct	-6.57	
For >5,000, Deduct	-9.56	
33 01 30 71-0348 LF 66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	90.01	
For Up To 75, Add	19.52	
For >75 To 150, Add	9.00	
For >500 To 1,000, Deduct	-2.41	
For >1,000 To 2,000, Deduct	-4.66	
For >2,000 To 5,000, Deduct	-7.22	
For >5,000, Deduct	-10.52	
33 01 30 71-0349 LF 72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	98.19	
For Up To 75, Add	21.29	
For >75 To 150, Add	9.82	
For >500 To 1,000, Deduct	-2.63	
For >1,000 To 2,000, Deduct	-5.09	
For >2,000 To 5,000, Deduct	-7.88	
For >5,000, Deduct	-11.48	
33 01 30 71-0350 LF 78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	106.38	
For Up To 75, Add	23.07	
For >75 To 150, Add	10.64	
For >500 To 1,000, Deduct	-2.85	
For >1,000 To 2,000, Deduct	-5.51	
For >2,000 To 5,000, Deduct	-8.54	
For >5,000, Deduct	-12.43	
33 01 30 71-0351 LF 84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	114.56	
For Up To 75, Add	24.84	
For >75 To 150, Add	11.46	
For >500 To 1,000, Deduct	-3.06	
For >1,000 To 2,000, Deduct	-5.93	
For >2,000 To 5,000, Deduct	-9.19	
For >5,000, Deduct	-13.39	
33 01 30 71-0352 LF 90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	122.74	
For Up To 75, Add	26.62	
For >75 To 150, Add	12.27	
For >500 To 1,000, Deduct	-3.28	
For >1,000 To 2,000, Deduct	-6.36	
For >2,000 To 5,000, Deduct	-9.85	
For >5,000, Deduct	-14.34	
33 01 30 71-0353 LF 96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	130.94	
For Up To 75, Add	28.40	
For >75 To 150, Add	13.09	
For >500 To 1,000, Deduct	-3.50	
For >1,000 To 2,000, Deduct	-6.78	
For >2,000 To 5,000, Deduct	-10.51	
For >5,000, Deduct	-15.30	
33 01 30 71-0354 LF 102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	139.11	
For Up To 75, Add	30.17	
For >75 To 150, Add	13.91	
For >500 To 1,000, Deduct	-3.72	
For >1,000 To 2,000, Deduct	-7.21	
For >2,000 To 5,000, Deduct	-11.16	
For >5,000, Deduct	-16.26	
33 01 30 71-0355 LF 108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	147.30	
For Up To 75, Add	31.94	
For >75 To 150, Add	14.73	
For >500 To 1,000, Deduct	-3.94	
For >1,000 To 2,000, Deduct	-7.63	
For >2,000 To 5,000, Deduct	-11.82	
For >5,000, Deduct	-17.21	
33 01 30 71-0356 LF 114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	155.47	
For Up To 75, Add	33.72	
For >75 To 150, Add	15.55	
For >500 To 1,000, Deduct	-4.16	
For >1,000 To 2,000, Deduct	-8.05	
For >2,000 To 5,000, Deduct	-12.47	
For >5,000, Deduct	-18.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0357 LF 120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	163.67	
<i>For Up To 75, Add</i>	35.49	
<i>For >75 To 150, Add</i>	16.37	
<i>For >500 To 1,000, Deduct</i>	-4.38	
<i>For >1,000 To 2,000, Deduct</i>	-8.48	
<i>For >2,000 To 5,000, Deduct</i>	-13.13	
<i>For >5,000, Deduct</i>	-19.13	
33 01 30 71-0358 SF Structure Lining, Spray Applied With 150 mil Structural Polyurethane	5.20	
33 01 30 71-0359 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane <small>(33 01 30 71-0322)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0360 LF 36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	60.79	
<i>For Up To 75, Add</i>	13.03	
<i>For >75 To 150, Add</i>	6.08	
<i>For >500 To 1,000, Deduct</i>	-1.56	
<i>For >1,000 To 2,000, Deduct</i>	-3.04	
<i>For >2,000 To 5,000, Deduct</i>	-4.69	
<i>For >5,000, Deduct</i>	-6.95	
33 01 30 71-0361 LF 42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	70.91	
<i>For Up To 75, Add</i>	15.20	
<i>For >75 To 150, Add</i>	7.09	
<i>For >500 To 1,000, Deduct</i>	-1.82	
<i>For >1,000 To 2,000, Deduct</i>	-3.55	
<i>For >2,000 To 5,000, Deduct</i>	-5.47	
<i>For >5,000, Deduct</i>	-8.11	
33 01 30 71-0362 LF 48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	81.06	
<i>For Up To 75, Add</i>	17.37	
<i>For >75 To 150, Add</i>	8.11	
<i>For >500 To 1,000, Deduct</i>	-2.09	
<i>For >1,000 To 2,000, Deduct</i>	-4.06	
<i>For >2,000 To 5,000, Deduct</i>	-6.26	
<i>For >5,000, Deduct</i>	-9.27	
33 01 30 71-0363 LF 54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	91.18	
<i>For Up To 75, Add</i>	19.54	
<i>For >75 To 150, Add</i>	9.12	
<i>For >500 To 1,000, Deduct</i>	-2.35	
<i>For >1,000 To 2,000, Deduct</i>	-4.56	
<i>For >2,000 To 5,000, Deduct</i>	-7.04	
<i>For >5,000, Deduct</i>	-10.43	
33 01 30 71-0364 LF 60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	101.31	
<i>For Up To 75, Add</i>	21.71	
<i>For >75 To 150, Add</i>	10.13	
<i>For >500 To 1,000, Deduct</i>	-2.61	
<i>For >1,000 To 2,000, Deduct</i>	-5.07	
<i>For >2,000 To 5,000, Deduct</i>	-7.82	
<i>For >5,000, Deduct</i>	-11.58	
33 01 30 71-0365 LF 66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	111.44	
<i>For Up To 75, Add</i>	23.89	
<i>For >75 To 150, Add</i>	11.14	
<i>For >500 To 1,000, Deduct</i>	-2.87	
<i>For >1,000 To 2,000, Deduct</i>	-5.58	
<i>For >2,000 To 5,000, Deduct</i>	-8.60	
<i>For >5,000, Deduct</i>	-12.74	
33 01 30 71-0366 LF 72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	121.57	
<i>For Up To 75, Add</i>	26.06	
<i>For >75 To 150, Add</i>	12.16	
<i>For >500 To 1,000, Deduct</i>	-3.13	
<i>For >1,000 To 2,000, Deduct</i>	-6.08	
<i>For >2,000 To 5,000, Deduct</i>	-9.39	
<i>For >5,000, Deduct</i>	-13.90	
33 01 30 71-0367 LF 78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	131.71	
<i>For Up To 75, Add</i>	28.23	
<i>For >75 To 150, Add</i>	13.17	
<i>For >500 To 1,000, Deduct</i>	-3.39	
<i>For >1,000 To 2,000, Deduct</i>	-6.59	
<i>For >2,000 To 5,000, Deduct</i>	-10.17	
<i>For >5,000, Deduct</i>	-15.06	
33 01 30 71-0368 LF 84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	141.84	
<i>For Up To 75, Add</i>	30.40	
<i>For >75 To 150, Add</i>	14.18	
<i>For >500 To 1,000, Deduct</i>	-3.65	
<i>For >1,000 To 2,000, Deduct</i>	-7.10	
<i>For >2,000 To 5,000, Deduct</i>	-10.95	
<i>For >5,000, Deduct</i>	-16.22	
33 01 30 71-0369 LF 90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	151.97	
<i>For Up To 75, Add</i>	32.57	
<i>For >75 To 150, Add</i>	15.20	
<i>For >500 To 1,000, Deduct</i>	-3.91	
<i>For >1,000 To 2,000, Deduct</i>	-7.60	
<i>For >2,000 To 5,000, Deduct</i>	-11.73	
<i>For >5,000, Deduct</i>	-17.38	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0370 LF 96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	162.11	
For Up To 75, Add	34.75	
For >75 To 150, Add	16.21	
For >500 To 1,000, Deduct	-4.17	
For >1,000 To 2,000, Deduct	-8.11	
For >2,000 To 5,000, Deduct	-12.52	
For >5,000, Deduct	-18.54	
33 01 30 71-0371 LF 102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	172.24	
For Up To 75, Add	36.92	
For >75 To 150, Add	17.22	
For >500 To 1,000, Deduct	-4.43	
For >1,000 To 2,000, Deduct	-8.62	
For >2,000 To 5,000, Deduct	-13.30	
For >5,000, Deduct	-19.69	
33 01 30 71-0372 LF 108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	182.37	
For Up To 75, Add	39.09	
For >75 To 150, Add	18.24	
For >500 To 1,000, Deduct	-4.69	
For >1,000 To 2,000, Deduct	-9.13	
For >2,000 To 5,000, Deduct	-14.08	
For >5,000, Deduct	-20.85	
33 01 30 71-0373 LF 114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	192.50	
For Up To 75, Add	41.26	
For >75 To 150, Add	19.25	
For >500 To 1,000, Deduct	-4.95	
For >1,000 To 2,000, Deduct	-9.63	
For >2,000 To 5,000, Deduct	-14.86	
For >5,000, Deduct	-22.01	
33 01 30 71-0374 LF 120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	202.63	
For Up To 75, Add	43.43	
For >75 To 150, Add	20.26	
For >500 To 1,000, Deduct	-5.21	
For >1,000 To 2,000, Deduct	-10.14	
For >2,000 To 5,000, Deduct	-15.64	
For >5,000, Deduct	-23.17	
33 01 30 71-0375 SF Structure Lining, Spray Applied With 200 mil Structural Polyurethane.....	6.45	
33 01 30 71-0376 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane <small>(33 01 30 71-0322)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0377 LF 36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	72.54	
For Up To 75, Add	15.43	
For >75 To 150, Add	7.25	
For >500 To 1,000, Deduct	-1.82	
For >1,000 To 2,000, Deduct	-3.54	
For >2,000 To 5,000, Deduct	-5.45	
For >5,000, Deduct	-8.17	
33 01 30 71-0378 LF 42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	84.64	
For Up To 75, Add	18.00	
For >75 To 150, Add	8.46	
For >500 To 1,000, Deduct	-2.12	
For >1,000 To 2,000, Deduct	-4.13	
For >2,000 To 5,000, Deduct	-6.36	
For >5,000, Deduct	-9.53	
33 01 30 71-0379 LF 48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	96.73	
For Up To 75, Add	20.57	
For >75 To 150, Add	9.67	
For >500 To 1,000, Deduct	-2.42	
For >1,000 To 2,000, Deduct	-4.73	
For >2,000 To 5,000, Deduct	-7.27	
For >5,000, Deduct	-10.90	
33 01 30 71-0380 LF 54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	108.82	
For Up To 75, Add	23.14	
For >75 To 150, Add	10.88	
For >500 To 1,000, Deduct	-2.73	
For >1,000 To 2,000, Deduct	-5.32	
For >2,000 To 5,000, Deduct	-8.18	
For >5,000, Deduct	-12.26	
33 01 30 71-0381 LF 60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	120.90	
For Up To 75, Add	25.71	
For >75 To 150, Add	12.09	
For >500 To 1,000, Deduct	-3.03	
For >1,000 To 2,000, Deduct	-5.91	
For >2,000 To 5,000, Deduct	-9.09	
For >5,000, Deduct	-13.62	
33 01 30 71-0382 LF 66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	133.00	
For Up To 75, Add	28.28	
For >75 To 150, Add	13.30	
For >500 To 1,000, Deduct	-3.33	
For >1,000 To 2,000, Deduct	-6.50	
For >2,000 To 5,000, Deduct	-10.00	
For >5,000, Deduct	-14.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0383 LF 72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	145.09	
<i>For Up To 75, Add</i>	30.85	
<i>For >75 To 150, Add</i>	14.51	
<i>For >500 To 1,000, Deduct</i>	-3.64	
<i>For >1,000 To 2,000, Deduct</i>	-7.09	
<i>For >2,000 To 5,000, Deduct</i>	-10.91	
<i>For >5,000, Deduct</i>	-16.34	
33 01 30 71-0384 LF 78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	157.18	
<i>For Up To 75, Add</i>	33.42	
<i>For >75 To 150, Add</i>	15.72	
<i>For >500 To 1,000, Deduct</i>	-3.94	
<i>For >1,000 To 2,000, Deduct</i>	-7.68	
<i>For >2,000 To 5,000, Deduct</i>	-11.82	
<i>For >5,000, Deduct</i>	-17.71	
33 01 30 71-0385 LF 84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	169.27	
<i>For Up To 75, Add</i>	36.00	
<i>For >75 To 150, Add</i>	16.93	
<i>For >500 To 1,000, Deduct</i>	-4.24	
<i>For >1,000 To 2,000, Deduct</i>	-8.27	
<i>For >2,000 To 5,000, Deduct</i>	-12.73	
<i>For >5,000, Deduct</i>	-19.07	
33 01 30 71-0386 LF 90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	181.37	
<i>For Up To 75, Add</i>	38.57	
<i>For >75 To 150, Add</i>	18.14	
<i>For >500 To 1,000, Deduct</i>	-4.55	
<i>For >1,000 To 2,000, Deduct</i>	-8.86	
<i>For >2,000 To 5,000, Deduct</i>	-13.64	
<i>For >5,000, Deduct</i>	-20.43	
33 01 30 71-0387 LF 96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	193.46	
<i>For Up To 75, Add</i>	41.14	
<i>For >75 To 150, Add</i>	19.35	
<i>For >500 To 1,000, Deduct</i>	-4.85	
<i>For >1,000 To 2,000, Deduct</i>	-9.45	
<i>For >2,000 To 5,000, Deduct</i>	-14.54	
<i>For >5,000, Deduct</i>	-21.79	
33 01 30 71-0388 LF 102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	205.53	
<i>For Up To 75, Add</i>	43.71	
<i>For >75 To 150, Add</i>	20.55	
<i>For >500 To 1,000, Deduct</i>	-5.15	
<i>For >1,000 To 2,000, Deduct</i>	-10.04	
<i>For >2,000 To 5,000, Deduct</i>	-15.45	
<i>For >5,000, Deduct</i>	-23.15	
33 01 30 71-0389 LF 108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	217.63	
<i>For Up To 75, Add</i>	46.28	
<i>For >75 To 150, Add</i>	21.76	
<i>For >500 To 1,000, Deduct</i>	-5.45	
<i>For >1,000 To 2,000, Deduct</i>	-10.63	
<i>For >2,000 To 5,000, Deduct</i>	-16.36	
<i>For >5,000, Deduct</i>	-24.52	
33 01 30 71-0390 LF 114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	229.73	
<i>For Up To 75, Add</i>	48.85	
<i>For >75 To 150, Add</i>	22.97	
<i>For >500 To 1,000, Deduct</i>	-5.76	
<i>For >1,000 To 2,000, Deduct</i>	-11.22	
<i>For >2,000 To 5,000, Deduct</i>	-17.27	
<i>For >5,000, Deduct</i>	-25.88	
33 01 30 71-0391 LF 120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	241.82	
<i>For Up To 75, Add</i>	51.42	
<i>For >75 To 150, Add</i>	24.18	
<i>For >500 To 1,000, Deduct</i>	-6.06	
<i>For >1,000 To 2,000, Deduct</i>	-11.81	
<i>For >2,000 To 5,000, Deduct</i>	-18.18	
<i>For >5,000, Deduct</i>	-27.24	
33 01 30 71-0392 SF Structure Lining, Spray Applied With 250 mil Structural Polyurethane	7.70	
33 01 30 71-0393 Lining Pipe, Spray Applied With 300 mil Structural Polyurethane <small>(33 01 30 71-0322)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0394 LF 36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	84.39	
<i>For Up To 75, Add</i>	17.84	
<i>For >75 To 150, Add</i>	8.44	
<i>For >500 To 1,000, Deduct</i>	-2.07	
<i>For >1,000 To 2,000, Deduct</i>	-4.05	
<i>For >2,000 To 5,000, Deduct</i>	-6.22	
<i>For >5,000, Deduct</i>	-9.41	
33 01 30 71-0395 LF 42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	98.46	
<i>For Up To 75, Add</i>	20.82	
<i>For >75 To 150, Add</i>	9.85	
<i>For >500 To 1,000, Deduct</i>	-2.42	
<i>For >1,000 To 2,000, Deduct</i>	-4.73	
<i>For >2,000 To 5,000, Deduct</i>	-7.26	
<i>For >5,000, Deduct</i>	-10.97	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0396 LF 48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	112.53	
For Up To 75, Add	23.79	
For >75 To 150, Add	11.25	
For >500 To 1,000, Deduct	-2.77	
For >1,000 To 2,000, Deduct	-5.40	
For >2,000 To 5,000, Deduct	-8.30	
For >5,000, Deduct	-12.54	
33 01 30 71-0397 LF 54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	126.59	
For Up To 75, Add	26.77	
For >75 To 150, Add	12.66	
For >500 To 1,000, Deduct	-3.11	
For >1,000 To 2,000, Deduct	-6.08	
For >2,000 To 5,000, Deduct	-9.33	
For >5,000, Deduct	-14.11	
33 01 30 71-0398 LF 60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	140.65	
For Up To 75, Add	29.74	
For >75 To 150, Add	14.07	
For >500 To 1,000, Deduct	-3.46	
For >1,000 To 2,000, Deduct	-6.75	
For >2,000 To 5,000, Deduct	-10.37	
For >5,000, Deduct	-15.67	
33 01 30 71-0399 LF 66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	154.72	
For Up To 75, Add	32.72	
For >75 To 150, Add	15.47	
For >500 To 1,000, Deduct	-3.80	
For >1,000 To 2,000, Deduct	-7.43	
For >2,000 To 5,000, Deduct	-11.41	
For >5,000, Deduct	-17.24	
33 01 30 71-0400 LF 72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	168.78	
For Up To 75, Add	35.69	
For >75 To 150, Add	16.88	
For >500 To 1,000, Deduct	-4.15	
For >1,000 To 2,000, Deduct	-8.10	
For >2,000 To 5,000, Deduct	-12.44	
For >5,000, Deduct	-18.81	
33 01 30 71-0401 LF 78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	182.84	
For Up To 75, Add	38.66	
For >75 To 150, Add	18.28	
For >500 To 1,000, Deduct	-4.49	
For >1,000 To 2,000, Deduct	-8.78	
For >2,000 To 5,000, Deduct	-13.48	
For >5,000, Deduct	-20.38	
33 01 30 71-0402 LF 84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	196.90	
For Up To 75, Add	41.63	
For >75 To 150, Add	19.69	
For >500 To 1,000, Deduct	-4.84	
For >1,000 To 2,000, Deduct	-9.45	
For >2,000 To 5,000, Deduct	-14.52	
For >5,000, Deduct	-21.94	
33 01 30 71-0403 LF 90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	210.98	
For Up To 75, Add	44.61	
For >75 To 150, Add	21.10	
For >500 To 1,000, Deduct	-5.19	
For >1,000 To 2,000, Deduct	-10.13	
For >2,000 To 5,000, Deduct	-15.56	
For >5,000, Deduct	-23.51	
33 01 30 71-0404 LF 96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	225.03	
For Up To 75, Add	47.58	
For >75 To 150, Add	22.50	
For >500 To 1,000, Deduct	-5.53	
For >1,000 To 2,000, Deduct	-10.80	
For >2,000 To 5,000, Deduct	-16.59	
For >5,000, Deduct	-25.08	
33 01 30 71-0405 LF 102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	239.11	
For Up To 75, Add	50.56	
For >75 To 150, Add	23.91	
For >500 To 1,000, Deduct	-5.88	
For >1,000 To 2,000, Deduct	-11.48	
For >2,000 To 5,000, Deduct	-17.63	
For >5,000, Deduct	-26.65	
33 01 30 71-0406 LF 108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	253.16	
For Up To 75, Add	53.53	
For >75 To 150, Add	25.32	
For >500 To 1,000, Deduct	-6.22	
For >1,000 To 2,000, Deduct	-12.15	
For >2,000 To 5,000, Deduct	-18.67	
For >5,000, Deduct	-28.21	
33 01 30 71-0407 LF 114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	267.24	
For Up To 75, Add	56.51	
For >75 To 150, Add	26.72	
For >500 To 1,000, Deduct	-6.57	
For >1,000 To 2,000, Deduct	-12.83	
For >2,000 To 5,000, Deduct	-19.70	
For >5,000, Deduct	-29.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0408 LF 120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	281.29	
<i>For Up To 75, Add</i>	59.48	
<i>For >75 To 150, Add</i>	28.13	
<i>For >500 To 1,000, Deduct</i>	-6.91	
<i>For >1,000 To 2,000, Deduct</i>	-13.50	
<i>For >2,000 To 5,000, Deduct</i>	-20.74	
<i>For >5,000, Deduct</i>	-31.35	
33 01 30 71-0409 SF Structure Lining, Spray Applied With 300 mil Structural Polyurethane	8.95	
33 01 30 71-0410 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane <small>(33 01 30 71-0322)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0411 LF 36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	108.17	
<i>For Up To 75, Add</i>	22.71	
<i>For >75 To 150, Add</i>	10.82	
<i>For >500 To 1,000, Deduct</i>	-2.59	
<i>For >1,000 To 2,000, Deduct</i>	-5.08	
<i>For >2,000 To 5,000, Deduct</i>	-7.78	
<i>For >5,000, Deduct</i>	-11.89	
33 01 30 71-0412 LF 42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	126.20	
<i>For Up To 75, Add</i>	26.49	
<i>For >75 To 150, Add</i>	12.62	
<i>For >500 To 1,000, Deduct</i>	-3.02	
<i>For >1,000 To 2,000, Deduct</i>	-5.92	
<i>For >2,000 To 5,000, Deduct</i>	-9.07	
<i>For >5,000, Deduct</i>	-13.87	
33 01 30 71-0413 LF 48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	144.23	
<i>For Up To 75, Add</i>	30.28	
<i>For >75 To 150, Add</i>	14.42	
<i>For >500 To 1,000, Deduct</i>	-3.46	
<i>For >1,000 To 2,000, Deduct</i>	-6.77	
<i>For >2,000 To 5,000, Deduct</i>	-10.37	
<i>For >5,000, Deduct</i>	-15.85	
33 01 30 71-0414 LF 54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	162.26	
<i>For Up To 75, Add</i>	34.06	
<i>For >75 To 150, Add</i>	16.23	
<i>For >500 To 1,000, Deduct</i>	-3.89	
<i>For >1,000 To 2,000, Deduct</i>	-7.62	
<i>For >2,000 To 5,000, Deduct</i>	-11.67	
<i>For >5,000, Deduct</i>	-17.84	
33 01 30 71-0415 LF 60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	180.29	
<i>For Up To 75, Add</i>	37.85	
<i>For >75 To 150, Add</i>	18.03	
<i>For >500 To 1,000, Deduct</i>	-4.32	
<i>For >1,000 To 2,000, Deduct</i>	-8.46	
<i>For >2,000 To 5,000, Deduct</i>	-12.96	
<i>For >5,000, Deduct</i>	-19.82	
33 01 30 71-0416 LF 66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	198.32	
<i>For Up To 75, Add</i>	41.63	
<i>For >75 To 150, Add</i>	19.83	
<i>For >500 To 1,000, Deduct</i>	-4.75	
<i>For >1,000 To 2,000, Deduct</i>	-9.31	
<i>For >2,000 To 5,000, Deduct</i>	-14.26	
<i>For >5,000, Deduct</i>	-21.80	
33 01 30 71-0417 LF 72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	216.34	
<i>For Up To 75, Add</i>	45.41	
<i>For >75 To 150, Add</i>	21.63	
<i>For >500 To 1,000, Deduct</i>	-5.19	
<i>For >1,000 To 2,000, Deduct</i>	-10.16	
<i>For >2,000 To 5,000, Deduct</i>	-15.56	
<i>For >5,000, Deduct</i>	-23.78	
33 01 30 71-0418 LF 78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	234.38	
<i>For Up To 75, Add</i>	49.20	
<i>For >75 To 150, Add</i>	23.44	
<i>For >500 To 1,000, Deduct</i>	-5.62	
<i>For >1,000 To 2,000, Deduct</i>	-11.00	
<i>For >2,000 To 5,000, Deduct</i>	-16.85	
<i>For >5,000, Deduct</i>	-25.76	
33 01 30 71-0419 LF 84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	252.40	
<i>For Up To 75, Add</i>	52.98	
<i>For >75 To 150, Add</i>	25.24	
<i>For >500 To 1,000, Deduct</i>	-6.05	
<i>For >1,000 To 2,000, Deduct</i>	-11.85	
<i>For >2,000 To 5,000, Deduct</i>	-18.15	
<i>For >5,000, Deduct</i>	-27.74	
33 01 30 71-0420 LF 90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	270.43	
<i>For Up To 75, Add</i>	56.77	
<i>For >75 To 150, Add</i>	27.04	
<i>For >500 To 1,000, Deduct</i>	-6.48	
<i>For >1,000 To 2,000, Deduct</i>	-12.69	
<i>For >2,000 To 5,000, Deduct</i>	-19.44	
<i>For >5,000, Deduct</i>	-29.73	

33 Utilities
33 01 Operation And Maintenance Of Utilities
33 01 30 Operation And Maintenance Of Sewer Utilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0421 LF 96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	288.46	
For Up To 75, Add	60.55	
For >75 To 150, Add	28.85	
For >500 To 1,000, Deduct	-6.91	
For >1,000 To 2,000, Deduct	-13.54	
For >2,000 To 5,000, Deduct	-20.74	
For >5,000, Deduct	-31.71	
33 01 30 71-0422 LF 102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	306.49	
For Up To 75, Add	64.34	
For >75 To 150, Add	30.65	
For >500 To 1,000, Deduct	-7.35	
For >1,000 To 2,000, Deduct	-14.39	
For >2,000 To 5,000, Deduct	-22.04	
For >5,000, Deduct	-33.69	
33 01 30 71-0423 LF 108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	324.52	
For Up To 75, Add	68.12	
For >75 To 150, Add	32.45	
For >500 To 1,000, Deduct	-7.78	
For >1,000 To 2,000, Deduct	-15.23	
For >2,000 To 5,000, Deduct	-23.33	
For >5,000, Deduct	-35.67	
33 01 30 71-0424 LF 114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	342.56	
For Up To 75, Add	71.91	
For >75 To 150, Add	34.26	
For >500 To 1,000, Deduct	-8.21	
For >1,000 To 2,000, Deduct	-16.08	
For >2,000 To 5,000, Deduct	-24.63	
For >5,000, Deduct	-37.65	
33 01 30 71-0425 LF 120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	360.58	
For Up To 75, Add	75.69	
For >75 To 150, Add	36.06	
For >500 To 1,000, Deduct	-8.64	
For >1,000 To 2,000, Deduct	-16.93	
For >2,000 To 5,000, Deduct	-25.93	
For >5,000, Deduct	-39.64	
33 01 30 71-0426 SF Structure Lining, Spray Applied With 400 mil Structural Polyurethane.....	11.48	
33 01 30 71-0427 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane (33 01 30 71-0322)		
Note: Two part structural polyurethane.		
33 01 30 71-0428 LF 36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	132.23	
For Up To 75, Add	27.64	
For >75 To 150, Add	13.22	
For >500 To 1,000, Deduct	-3.12	
For >1,000 To 2,000, Deduct	-6.12	
For >2,000 To 5,000, Deduct	-9.36	
For >5,000, Deduct	-14.42	
33 01 30 71-0429 LF 42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	154.27	
For Up To 75, Add	32.25	
For >75 To 150, Add	15.43	
For >500 To 1,000, Deduct	-3.64	
For >1,000 To 2,000, Deduct	-7.14	
For >2,000 To 5,000, Deduct	-10.93	
For >5,000, Deduct	-16.82	
33 01 30 71-0430 LF 48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	176.32	
For Up To 75, Add	36.85	
For >75 To 150, Add	17.63	
For >500 To 1,000, Deduct	-4.16	
For >1,000 To 2,000, Deduct	-8.17	
For >2,000 To 5,000, Deduct	-12.49	
For >5,000, Deduct	-19.22	
33 01 30 71-0431 LF 54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	198.35	
For Up To 75, Add	41.46	
For >75 To 150, Add	19.84	
For >500 To 1,000, Deduct	-4.68	
For >1,000 To 2,000, Deduct	-9.19	
For >2,000 To 5,000, Deduct	-14.05	
For >5,000, Deduct	-21.62	
33 01 30 71-0432 LF 60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	220.40	
For Up To 75, Add	46.07	
For >75 To 150, Add	22.04	
For >500 To 1,000, Deduct	-5.20	
For >1,000 To 2,000, Deduct	-10.21	
For >2,000 To 5,000, Deduct	-15.61	
For >5,000, Deduct	-24.03	
33 01 30 71-0433 LF 66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	242.43	
For Up To 75, Add	50.67	
For >75 To 150, Add	24.24	
For >500 To 1,000, Deduct	-5.72	
For >1,000 To 2,000, Deduct	-11.23	
For >2,000 To 5,000, Deduct	-17.17	
For >5,000, Deduct	-26.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0434 LF 72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	264.47	
For Up To 75, Add	55.28	
For >75 To 150, Add	26.45	
For >500 To 1,000, Deduct	-6.24	
For >1,000 To 2,000, Deduct	-12.25	
For >2,000 To 5,000, Deduct	-18.73	
For >5,000, Deduct	-28.83	
33 01 30 71-0435 LF 78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	286.51	
For Up To 75, Add	59.89	
For >75 To 150, Add	28.65	
For >500 To 1,000, Deduct	-6.76	
For >1,000 To 2,000, Deduct	-13.27	
For >2,000 To 5,000, Deduct	-20.29	
For >5,000, Deduct	-31.23	
33 01 30 71-0436 LF 84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	308.55	
For Up To 75, Add	64.49	
For >75 To 150, Add	30.86	
For >500 To 1,000, Deduct	-7.28	
For >1,000 To 2,000, Deduct	-14.29	
For >2,000 To 5,000, Deduct	-21.85	
For >5,000, Deduct	-33.64	
33 01 30 71-0437 LF 90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	330.58	
For Up To 75, Add	69.10	
For >75 To 150, Add	33.06	
For >500 To 1,000, Deduct	-7.80	
For >1,000 To 2,000, Deduct	-15.31	
For >2,000 To 5,000, Deduct	-23.41	
For >5,000, Deduct	-36.04	
33 01 30 71-0438 LF 96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	352.63	
For Up To 75, Add	73.71	
For >75 To 150, Add	35.26	
For >500 To 1,000, Deduct	-8.32	
For >1,000 To 2,000, Deduct	-16.33	
For >2,000 To 5,000, Deduct	-24.97	
For >5,000, Deduct	-38.44	
33 01 30 71-0439 LF 102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	374.67	
For Up To 75, Add	78.31	
For >75 To 150, Add	37.47	
For >500 To 1,000, Deduct	-8.84	
For >1,000 To 2,000, Deduct	-17.35	
For >2,000 To 5,000, Deduct	-26.53	
For >5,000, Deduct	-40.85	
33 01 30 71-0440 LF 108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	396.71	
For Up To 75, Add	82.92	
For >75 To 150, Add	39.67	
For >500 To 1,000, Deduct	-9.37	
For >1,000 To 2,000, Deduct	-18.37	
For >2,000 To 5,000, Deduct	-28.10	
For >5,000, Deduct	-43.25	
33 01 30 71-0441 LF 114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	418.74	
For Up To 75, Add	87.52	
For >75 To 150, Add	41.87	
For >500 To 1,000, Deduct	-9.89	
For >1,000 To 2,000, Deduct	-19.39	
For >2,000 To 5,000, Deduct	-29.66	
For >5,000, Deduct	-45.65	
33 01 30 71-0442 LF 120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	440.79	
For Up To 75, Add	92.13	
For >75 To 150, Add	44.08	
For >500 To 1,000, Deduct	-10.41	
For >1,000 To 2,000, Deduct	-20.41	
For >2,000 To 5,000, Deduct	-31.22	
For >5,000, Deduct	-48.05	
33 01 30 71-0443 SF Structure Lining, Spray Applied With 500 mil Structural Polyurethane	14.03	
33 01 30 81 Manhole Rehabilitation (33 01 30)		
33 01 30 81-0001 Restoration And Rehabilitation Of Manholes (33 01 30 81)		
Note: Work is in confined spaces.		
33 01 30 81-0002 Inspection And Ventilation System Set-up (33 01 30 81-0001)		
33 01 30 81-0003 EA Inspect Manhole	144.88	
33 01 30 81-0004 EA 36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System	8,903.19	
Note: For internal inspection and repair of water mains.		
33 01 30 81-0005 EA Installation And Maintenance Of Ventilation System, 60" to 108" diameter to 2,600'	12,549.47	
Note: For internal inspection and repair of water mains		
33 01 30 81-0006 Manhole Seals (33 01 30 81-0001)		
33 01 30 81-0007 Internal Manhole Chimney Seals (33 01 30 81-0006)		
Note: Cretex.		
33 01 30 81-0008 EA 20" Internal Manhole Chimney Seal	403.56	
33 01 30 81-0009 EA 22" Internal Manhole Chimney Seal	425.38	
33 01 30 81-0010 EA 24" Internal Manhole Chimney Seal	436.28	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0011 EA 26" Internal Manhole Chimney Seal.....	501.73	
33 01 30 81-0012 EA 28" Internal Manhole Chimney Seal.....	567.17	
33 01 30 81-0013 EA 30" Internal Manhole Chimney Seal.....	632.62	
33 01 30 81-0014 EA 36" Internal Manhole Chimney Seal.....	763.51	
33 01 30 81-0015 External Manhole Encapsulation (33 01 30 81-0006) Note: Wrapidseal.		
33 01 30 81-0016 EA 24" External Manhole Encapsulation	588.98	
33 01 30 81-0017 EA 30" External Manhole Encapsulation	621.71	
33 01 30 81-0018 EA 36" External Manhole Encapsulation	665.33	
33 01 30 81-0019 EA 42" External Manhole Encapsulation	719.87	
33 01 30 81-0020 EA 48" External Manhole Encapsulation	796.22	
33 01 30 81-0021 EA 54" External Manhole Encapsulation	883.47	
33 01 30 81-0022 EA 60" External Manhole Encapsulation	992.55	
33 01 30 81-0023 Manhole Crack Repair (33 01 30 81-0001) Note: Includes removing loose materials and cleaning.		
33 01 30 81-0024 LF Up To 1/4" Wide, Epoxy Grout Injection, Manhole Crack Repair	43.70	
33 01 30 81-0025 LF >1/4" To 1/2" Wide, Epoxy Grout Injection, Manhole Crack Repair	58.91	
33 01 30 81-0026 LF Up To 1/4" Wide, Urethane Grout Injection, Manhole Crack Repair	41.11	
33 01 30 81-0027 LF >1/4" To 1/2" Wide, Urethane Grout Injection, Manhole Crack Repair.....	55.54	
33 01 30 81-0028 Manhole Patching (33 01 30 81-0001) Note: Includes removing loose materials and cleaning.		
33 01 30 81-0029 SF Up To 1/4" Thick, Cementitious Grout, Manhole Patching.....	12.96	
33 01 30 81-0030 SF Up To 1/4" Thick, Epoxy Grout, Manhole Patching.....	33.83	
33 01 30 81-0031 Manhole Joint Restoration (33 01 30 81-0001) Note: Includes drilling holes at joints, fill joints with grout.		
33 01 30 81-0032 EA 3' Diameter Joint Restoration, Grout Fill Per Each Manhole	1,495.49	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	196.65	
33 01 30 81-0033 EA 3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	1,745.69	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	216.93	
33 01 30 81-0034 EA 4' Diameter Joint Restoration, Grout Fill Per Each Manhole	1,993.98	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	237.20	
33 01 30 81-0035 EA 5' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,341.36	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	247.34	
33 01 30 81-0036 EA 6' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,687.79	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	257.48	
33 01 30 81-0037 Step Installation In Existing Manholes (33 01 30 81-0001) Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.		
33 01 30 81-0038 EA Drill And Grout 7" x 9" Cast Iron Manhole Steps.....	99.32	17.88
33 01 30 81-0039 EA Drill And Grout 8" x 9" Cast Iron Manhole Steps.....	107.09	17.88
33 01 30 81-0040 EA Drill And Grout Galvanized Steel Manhole Step	82.57	17.88
33 01 30 81-0041 EA Bolt On Galvanized Steel Manhole Step	98.45	17.88
33 01 30 81-0042 EA Drill And Grout Aluminum Manhole Step.....	94.90	17.88
33 01 30 81-0043 EA Drill And Insert Polypropylene Manhole Step.....	49.66	14.30
33 01 30 81-0044 Invert Restoration (33 01 30 81-0001) Note: Includes removal of existing defective material and installation of new material.		
33 01 30 81-0045 Concrete Invert Restoration (33 01 30 81-0044)		
33 01 30 81-0046 EA 2' Diameter, Concrete Invert Restoration	293.26	
33 01 30 81-0047 EA 3' Diameter, Concrete Invert Restoration.....	329.43	
33 01 30 81-0048 EA 4' Diameter, Concrete Invert Restoration.....	365.60	
33 01 30 81-0049 EA 5' Diameter, Concrete Invert Restoration	401.77	
33 01 30 81-0050 EA 6' Diameter, Concrete Invert Restoration.....	510.28	
33 01 30 81-0051 SF Square Or Rectangular, Concrete Invert Restoration	29.07	
33 01 30 81-0052 Brick Invert Restoration (33 01 30 81-0044)		
33 01 30 81-0053 EA 2' Diameter, Brick Invert Restoration	512.85	
33 01 30 81-0054 EA 3' Diameter, Brick Invert Restoration	549.01	
33 01 30 81-0055 EA 4' Diameter, Brick Invert Restoration	585.19	
33 01 30 81-0056 EA 5' Diameter, Brick Invert Restoration	621.36	
33 01 30 81-0057 EA 6' Diameter, Brick Invert Restoration	657.53	
33 01 30 81-0058 SF Square Or Rectangular, Brick Invert Restoration	40.60	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 01 30 82 Lining For Concrete Manholes (33 01 30)

33 01 30 82-0001 Manhole Lining (33 01 30 82)
 Note: Includes power washing and cleaning of manhole interiors.

33 01 30 82-0002 Cementitious Manhole Restoration, Interior (33 01 30 82-0001)

33 01 30 82-0003	VLF 1/2" Cementitious Restoration On 3' Diameter Manhole Interior.....	119.50
	<i>For Each Additional 1/2" Thick Material, Add</i>	30.50
	<i>For 2 To 5 Manholes, Deduct</i>	-8.38
	<i>For 6 To 10 Manholes, Deduct</i>	-13.78
	<i>For >10 Manholes, Deduct</i>	-27.56
33 01 30 82-0004	VLF 1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior	138.58
	<i>For Each Additional 1/2" Thick Material, Add</i>	35.51
	<i>For 2 To 5 Manholes, Deduct</i>	-9.72
	<i>For 6 To 10 Manholes, Deduct</i>	-15.97
	<i>For >10 Manholes, Deduct</i>	-31.94
33 01 30 82-0005	VLF 1/2" Cementitious Restoration On 4' Diameter Manhole Interior.....	157.65
	<i>For Each Additional 1/2" Thick Material, Add</i>	40.51
	<i>For 2 To 5 Manholes, Deduct</i>	-11.05
	<i>For 6 To 10 Manholes, Deduct</i>	-18.16
	<i>For >10 Manholes, Deduct</i>	-36.32
33 01 30 82-0006	VLF 1/2" Cementitious Restoration On 5' Diameter Manhole Interior.....	185.84
	<i>For Each Additional 1/2" Thick Material, Add</i>	49.66
	<i>For 2 To 5 Manholes, Deduct</i>	-12.97
	<i>For 6 To 10 Manholes, Deduct</i>	-21.29
	<i>For >10 Manholes, Deduct</i>	-42.58
33 01 30 82-0007	VLF 1/2" Cementitious Restoration On 6' Diameter Manhole Interior.....	203.52
	<i>For Each Additional 1/2" Thick Material, Add</i>	57.46
	<i>For 2 To 5 Manholes, Deduct</i>	-14.10
	<i>For 6 To 10 Manholes, Deduct</i>	-23.12
	<i>For >10 Manholes, Deduct</i>	-46.24

33 01 30 82-0008 Polyurethane Manhole Restoration, Interior (33 01 30 82-0001)

33 01 30 82-0009	VLF 60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior	239.93
	<i>For 80 Mil Material, Add</i>	21.05
	<i>For 100 Mil Material, Add</i>	42.10
	<i>For 125 Mil Material, Add</i>	64.14
	<i>For 150 Mil Material, Add</i>	86.18
	<i>For 200 Mil Material, Add</i>	118.84
	<i>For 2 To 5 Manholes, Deduct</i>	-17.70
	<i>For 6 To 10 Manholes, Deduct</i>	-29.40
	<i>For >10 Manholes, Deduct</i>	-58.80
33 01 30 82-0010	VLF 60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior	292.59
	<i>For 80 Mil Material, Add</i>	25.51
	<i>For 100 Mil Material, Add</i>	51.02
	<i>For 125 Mil Material, Add</i>	77.68
	<i>For 150 Mil Material, Add</i>	104.34
	<i>For 200 Mil Material, Add</i>	143.72
	<i>For 2 To 5 Manholes, Deduct</i>	-21.60
	<i>For 6 To 10 Manholes, Deduct</i>	-35.88
	<i>For >10 Manholes, Deduct</i>	-71.77
33 01 30 82-0011	VLF 60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior	319.91
	<i>For 80 Mil Material, Add</i>	28.07
	<i>For 100 Mil Material, Add</i>	56.13
	<i>For 125 Mil Material, Add</i>	85.52
	<i>For 150 Mil Material, Add</i>	114.90
	<i>For 200 Mil Material, Add</i>	158.45
	<i>For 2 To 5 Manholes, Deduct</i>	-23.60
	<i>For 6 To 10 Manholes, Deduct</i>	-39.20
	<i>For >10 Manholes, Deduct</i>	-78.40
33 01 30 82-0012	VLF 60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior	399.87
	<i>For 80 Mil Material, Add</i>	35.08
	<i>For 100 Mil Material, Add</i>	70.16
	<i>For 125 Mil Material, Add</i>	106.89
	<i>For 150 Mil Material, Add</i>	143.61
	<i>For 200 Mil Material, Add</i>	198.05
	<i>For 2 To 5 Manholes, Deduct</i>	-29.50
	<i>For 6 To 10 Manholes, Deduct</i>	-49.00
	<i>For >10 Manholes, Deduct</i>	-98.00
33 01 30 82-0013	VLF 60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior	479.85
	<i>For 80 Mil Material, Add</i>	42.10
	<i>For 100 Mil Material, Add</i>	84.20
	<i>For 125 Mil Material, Add</i>	128.27
	<i>For 150 Mil Material, Add</i>	172.34
	<i>For 200 Mil Material, Add</i>	237.66
	<i>For 2 To 5 Manholes, Deduct</i>	-35.40
	<i>For 6 To 10 Manholes, Deduct</i>	-58.80
	<i>For >10 Manholes, Deduct</i>	-117.60

33 01 30 82-0014 Epoxy Manhole Restoration, Interior (33 01 30 82-0001)

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 82-0015 VLF 60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior	261.94	
For 80 Mil Material, Add	28.39	
For 100 Mil Material, Add	56.77	
For 125 Mil Material, Add	87.98	
For 150 Mil Material, Add	119.19	
For 200 Mil Material, Add	170.20	
For 2 To 5 Manholes, Deduct	-18.80	
For 6 To 10 Manholes, Deduct	-31.05	
For >10 Manholes, Deduct	-62.10	
33 01 30 82-0016 VLF 60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior	318.30	
For 80 Mil Material, Add	34.08	
For 100 Mil Material, Add	68.16	
For 125 Mil Material, Add	105.53	
For 150 Mil Material, Add	142.90	
For 200 Mil Material, Add	203.71	
For 2 To 5 Manholes, Deduct	-22.88	
For 6 To 10 Manholes, Deduct	-37.81	
For >10 Manholes, Deduct	-75.62	
33 01 30 82-0017 VLF 60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior	349.25	
For 80 Mil Material, Add	37.85	
For 100 Mil Material, Add	75.69	
For 125 Mil Material, Add	117.30	
For 150 Mil Material, Add	158.91	
For 200 Mil Material, Add	226.91	
For 2 To 5 Manholes, Deduct	-25.07	
For 6 To 10 Manholes, Deduct	-41.40	
For >10 Manholes, Deduct	-82.80	
33 01 30 82-0018 VLF 60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior	436.59	
For 80 Mil Material, Add	47.32	
For 100 Mil Material, Add	94.64	
For 125 Mil Material, Add	146.67	
For 150 Mil Material, Add	198.69	
For 200 Mil Material, Add	283.73	
For 2 To 5 Manholes, Deduct	-31.33	
For 6 To 10 Manholes, Deduct	-51.75	
For >10 Manholes, Deduct	-103.50	
33 01 30 82-0019 VLF 60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior	523.91	
For 80 Mil Material, Add	56.78	
For 100 Mil Material, Add	113.57	
For 125 Mil Material, Add	176.00	
For 150 Mil Material, Add	238.43	
For 200 Mil Material, Add	340.47	
For 2 To 5 Manholes, Deduct	-37.60	
For 6 To 10 Manholes, Deduct	-62.10	
For >10 Manholes, Deduct	-124.21	
33 01 30 82-0020 Multiplexx™ PVCP Cured-In-Place (CIP) Lining Manhole Restoration, Interior (33 01 30 82-0001)		
33 01 30 82-0021 VLF 3' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	351.33	
For 2 To 5 Manholes, Deduct	-21.05	
For 6 To 10 Manholes, Deduct	-33.31	
For >10 Manholes, Deduct	-66.62	
33 01 30 82-0022 VLF 3-1/2' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	430.16	
For 2 To 5 Manholes, Deduct	-25.76	
For 6 To 10 Manholes, Deduct	-40.77	
For >10 Manholes, Deduct	-81.54	
33 01 30 82-0023 VLF 4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	502.93	
For 2 To 5 Manholes, Deduct	-29.79	
For 6 To 10 Manholes, Deduct	-47.00	
For >10 Manholes, Deduct	-94.00	
33 01 30 82-0024 VLF 5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	630.50	
For 2 To 5 Manholes, Deduct	-37.33	
For 6 To 10 Manholes, Deduct	-58.89	
For >10 Manholes, Deduct	-117.78	
33 01 30 82-0025 VLF 6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	758.08	
For 2 To 5 Manholes, Deduct	-44.86	
For 6 To 10 Manholes, Deduct	-70.78	
For >10 Manholes, Deduct	-141.55	
33 01 30 86 Manhole Rim Adjustment (33 01 30)		
33 01 30 86-0001 Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86)		
33 01 30 86-0002 Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0003 EA Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	272.74	
33 01 30 86-0004 EA >2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	305.73	
33 01 30 86-0005 EA >3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	335.87	
33 01 30 86-0006 EA >4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	369.95	
33 01 30 86-0007 EA >5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	397.99	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 86-0008				Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser <small>(33 01 30 86-0001)</small>		
	33 01 30 86-0009	EA		Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	317.51	
	33 01 30 86-0010	EA		>2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	345.67	
	33 01 30 86-0011	EA		>3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	380.81	
	33 01 30 86-0012	EA		>4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	414.88	
	33 01 30 86-0013	EA		>5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	447.89	
33 01 30 86-0014				Up To 6" Rise, >32-1/2" To 36" Diameter, Adjustable Or Solid Manhole Risers <small>(33 01 30 86-0001)</small>		
	33 01 30 86-0015	EA		Up To 4" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	366.14	
	33 01 30 86-0016	EA		>4" To 5" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	386.76	
	33 01 30 86-0017	EA		>5" To 6" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	409.07	
33 01 30 86-0018				>6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers <small>(33 01 30 86-0001)</small>		
	33 01 30 86-0019	EA		>6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	444.48	
	33 01 30 86-0020	EA		7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	482.81	
	33 01 30 86-0021	EA		7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	521.85	
	33 01 30 86-0022	EA		8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	553.41	
	33 01 30 86-0023	EA		9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	600.69	
	33 01 30 86-0024	EA		10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	643.98	
	33 01 30 86-0025	EA		11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	686.55	
	33 01 30 86-0026	EA		12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	730.15	
33 01 30 86-0027				>12" Rise, Solid Manhole Risers <small>(33 01 30 86)</small>		
33 01 30 86-0028				Precast Concrete Manhole Riser <small>(33 01 30 86-0027)</small>		
	33 01 30 86-0029	VLF		Up To 26" Diameter Precast Concrete Manhole Riser.....	92.24	
	33 01 30 86-0030	VLF		>26" To 36" Diameter Precast Concrete Manhole Riser.....	110.12	
	33 01 30 86-0031	VLF		>36" To 48" Diameter Precast Concrete Manhole Riser.....	125.68	
	33 01 30 86-0032	VLF		>48" To 60" Diameter Precast Concrete Manhole Riser.....	251.61	
	33 01 30 86-0033	VLF		>60" To 72" Diameter Precast Concrete Manhole Riser.....	369.40	
33 01 30 89				By Pass Piping And Pumping Of Sewer Utilities <small>(33 01 30)</small>		
33 01 30 89-0001				Set-Up By-Pass Pumping Unit <small>(33 01 30 89)</small>		
				Note: Excludes pump and hose rental. See CSI section 01 22 23 00-0988 for pump rental, 01 22 23 00-1021 for suction hose, 01 22 23 00-1040 for discharge hose.		
	33 01 30 89-0002	EA		Set-up By-Pass Pumping Unit.....	1,555.50	
	33 01 30 89-0003	EA		Re-Set Up/Move By-Pass Pumping Unit.....	777.75	
33 01 30 89-0004				By-Pass Pumping <small>(33 01 30 89)</small>		
				Note: Excludes pump rental. See CSI section 01 22 23 00-0988 for pump rental.		
	33 01 30 89-0005	DAY		Maintain And Operate By-Pass Pumping Unit.....	388.88	
	33 01 30 89-0006	WK		Maintain And Operate By-Pass Pumping Unit.....	1,944.38	
	33 01 30 89-0007	MO		Maintain And Operate By-Pass Pumping Unit.....	8,166.42	
33 01 30 89-0008				Temporary Bypass And Service Lines <small>(33 01 30 89)</small>		
				Note: Laid on ground, includes fittings and connections. Remove after use.		
33 01 30 89-0009				Temporary Water Service Lines <small>(33 01 30 89-0008)</small>		
				Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
	33 01 30 89-0010	LF		1/2" Temporary Service Hose With Fittings..... Note: Includes removal after use.	2.38	
	33 01 30 89-0011	LF		3/4" Temporary Service Hose With Fittings..... Note: Includes removal after use.	3.02	
	33 01 30 89-0012	LF		1" Temporary Service Hose With Fittings..... Note: Includes removal after use.	3.50	
	33 01 30 89-0013	LF		1-1/2" Temporary Service Hose With Fittings..... Note: Includes removal after use.	4.18	
	33 01 30 89-0014	LF		2" Temporary Service Hose With Fittings..... Note: Includes removal after use.	5.14	
	33 01 30 89-0015	EA		Temporary Service Valve Assembly At Fire Hydrant..... Note: Includes removal after use.	263.87	
33 01 30 89-0016				Temporary Bypass Water Main Lines <small>(33 01 30 89-0008)</small>		
				Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
	33 01 30 89-0017	LF		2" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	5.31	
				For >500 To 1,000, Deduct	-0.37	
				For >1,000 To 5,000, Deduct	-0.73	
				For >5,000, Deduct	-1.22	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 89-0018 LF 4" Temporary Bypass Pipe With Fittings.....	6.85	
Note: Includes removal after use.		
For >500 To 1,000, Deduct	-0.47	
For >1,000 To 5,000, Deduct	-0.94	
For >5,000, Deduct	-1.57	
33 01 30 89-0019 LF 6" Temporary Bypass Pipe With Fittings.....	8.49	
Note: Includes removal after use.		
For >500 To 1,000, Deduct	-0.55	
For >1,000 To 5,000, Deduct	-1.10	
For >5,000, Deduct	-1.83	
33 01 30 89-0020 LF 8" Temporary Bypass Pipe With Fittings.....	10.79	
Note: Includes removal after use.		
For >500 To 1,000, Deduct	-0.66	
For >1,000 To 5,000, Deduct	-1.32	
For >5,000, Deduct	-2.20	
33 01 30 89-0021 Piping Protection For Temporary Water Line (33 01 30 89-0008)		
33 01 30 89-0022 LF Cold Mix For Temporary Pipe.....	2.37	
Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe.		
33 01 30 89-0023 Drill Meter Cover For Temporary Water Line (33 01 30 89-0008)		
33 01 30 89-0024 EA Drill Meter Cover For Temporary Bypass Pipe.....	13.41	
33 01 34 Operation and Maintenance of Onsite Wastewater Disposal Systems (33 01)		
33 01 34 13 Septic Tank Solids Removal (33 01 34)		
33 01 34 13-0001 Pump Out Septic Tanks (33 01 34 13)		
33 01 34 13-0002 GAL Pump Out Septic Tank And Dispose.....	0.52	
33 05 Common Work Results For Utilities (33)		
33 05 07 Trenchless Installation of Utility Piping (33 05)		
33 05 07 13 Utility Directional Drilling (33 05 07)		
33 05 07 13-0001 Horizontal Augering (33 05 07 13)		
Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal.		
33 05 07 13-0002 LF Up To 2" Diameter Horizontal Hand Augering.....	20.73	
33 05 07 13-0003 LF 3" Diameter Horizontal Hand Augering.....	25.03	
33 05 07 13-0004 LF 4" Diameter Horizontal Hand Augering.....	34.32	
33 05 07 13-0005 LF 6" Diameter Horizontal Hand Augering.....	44.34	
33 05 07 13-0006 LF 8" Diameter Horizontal Augering.....	78.45	
33 05 07 13-0007 LF 10" Diameter Horizontal Augering.....	114.44	
33 05 07 13-0008 LF 12" Diameter Horizontal Augering.....	137.51	
33 05 07 13-0009 LF 16" Diameter Horizontal Augering.....	164.27	
33 05 07 13-0010 LF 20" Diameter Horizontal Augering.....	284.25	
33 05 07 13-0011 LF 24" Diameter Horizontal Augering.....	351.60	
33 05 07 13-0012 LF 30" Diameter Horizontal Augering.....	433.68	
33 05 07 13-0013 LF 36" Diameter Horizontal Augering.....	495.49	
33 05 07 13-0014 LF 42" Diameter Horizontal Augering.....	628.95	
33 05 07 13-0015 LF 48" Diameter Horizontal Augering.....	677.71	
33 05 07 13-0016 LF 54" Diameter Horizontal Augering.....	737.03	
33 05 07 13-0017 LF 60" Diameter Horizontal Augering.....	772.70	
33 05 07 13-0018 EA 8" To 20" Horizontal Augering Minimum Set-up Charge.....	3,322.39	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0019 EA >20" To 36" Horizontal Augering Minimum Set-up Charge.....	4,458.32	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0020 EA >36" Horizontal Augering Minimum Set-up Charge.....	6,420.64	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0021 Horizontal Directional Boring (33 05 07 13)		
Note: Excludes receiving pits or dewatering or cost of casing pipe.		
33 05 07 13-0022 LF Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground.....	10.89	
For Horizontal Boring Through Rock, Add	7.62	
33 05 07 13-0023 LF 2" Diameter Directional Boring For Horizontal Pipe, Underground.....	16.34	
For Horizontal Boring Through Rock, Add	11.44	
33 05 07 13-0024 LF 2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground.....	22.70	
For Horizontal Boring Through Rock, Add	15.89	
33 05 07 13-0025 LF 3" Diameter Directional Boring For Horizontal Pipe, Underground.....	28.14	
For Horizontal Boring Through Rock, Add	19.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 13-0026 LF 4" Diameter Directional Boring For Horizontal Pipe, Underground <i>For Horizontal Boring Through Rock, Add</i>	33.59 23.51	
33 05 07 13-0027 LF 5" Diameter Directional Boring For Horizontal Pipe, Underground <i>For Horizontal Boring Through Rock, Add</i>	39.04 27.33	
33 05 07 13-0028 LF 6" Diameter Directional Boring For Horizontal Pipe, Underground <i>For Horizontal Boring Through Rock, Add</i>	45.39 31.77	
33 05 07 13-0029 LF 8" Diameter Directional Boring For Horizontal Pipe, Underground <i>For Horizontal Boring Through Rock, Add</i>	55.37 38.76	
33 05 07 13-0030 LF 10" Diameter Directional Boring For Horizontal Pipe, Underground <i>For Horizontal Boring Through Rock, Add</i>	59.98 41.99	
33 05 07 13-0031 LF 12" Diameter Directional Boring For Horizontal Pipe, Underground <i>For Horizontal Boring Through Rock, Add</i>	64.61 45.23	
33 05 07 13-0032 LF 18" Diameter Directional Boring For Horizontal Pipe, Underground <i>For Horizontal Boring Through Rock, Add</i>	133.82 93.67	
33 05 07 13-0033 LF 24" Diameter Directional Boring For Horizontal Pipe, Underground <i>For Horizontal Boring Through Rock, Add</i>	207.72 145.40	
33 05 07 13-0034 LF 30" Diameter Directional Boring For Horizontal Pipe, Underground <i>For Horizontal Boring Through Rock, Add</i>	316.65 221.66	
33 05 07 13-0035 LF 36" Diameter Directional Boring For Horizontal Pipe, Underground <i>For Horizontal Boring Through Rock, Add</i>	506.63 354.64	
33 05 07 13-0036 EA Up To 6" Horizontal Directional Boring Minimum Set-up Charge..... Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	2,905.35	
33 05 07 13-0037 EA >6" To 18" Horizontal Directional Boring Minimum Set-up Charge..... Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	3,322.39	
33 05 07 13-0038 EA >18" To 36" Horizontal Directional Boring Minimum Set-up Charge..... Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	4,458.32	

33 05 07 23 Utility Boring and Jacking (33 05 07)

33 05 07 23-0001 Horizontal Jacking (33 05 07 23)

Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit.

33 05 07 23-0002 LF Up To 2" Diameter Horizontal Jacking <i>For Horizontal Jacking Through Rock, Add</i>	46.14 24.14	
33 05 07 23-0003 LF 3" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	55.39 29.13	
33 05 07 23-0004 LF 4" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	75.10 39.95	
33 05 07 23-0005 LF 6" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	97.04 51.60	
33 05 07 23-0006 LF 8" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	131.80 70.74	
33 05 07 23-0007 LF 10" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	193.04 103.21	
33 05 07 23-0008 LF 12" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	232.31 124.02	
33 05 07 23-0009 LF 16" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	277.38 148.15	
33 05 07 23-0010 LF 20" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	442.69 257.18	
33 05 07 23-0011 LF 24" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	677.41 288.62	
33 05 07 23-0012 LF 30" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	795.43 356.39	
33 05 07 23-0013 LF 36" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	900.25 407.50	
33 05 07 23-0014 LF 42" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	967.97 440.06	
33 05 07 23-0015 LF 48" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	1,048.47 474.14	
33 05 07 23-0016 LF 54" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	1,124.10 516.02	
33 05 07 23-0017 EA Up To 6" Horizontal Jacking Minimum Set-up Charge..... Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	2,905.35	
33 05 07 23-0018 EA >6" To 20" Horizontal Jacking Minimum Set-up Charge..... Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	3,322.39	
33 05 07 23-0019 EA >20" To 36" Horizontal Jacking Minimum Set-up Charge..... Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	4,458.32	
33 05 07 23-0020 EA >36" Horizontal Jacking Minimum Set-up Charge..... Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	6,420.64	

33 05 07 24 Casing Piping for Utility Jacking (33 05 07)

33 05 07 24-0001 Casing Pipe (33 05 07 24)

Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.

33 Utilities**33 05 Common Work Results For Utilities****33 05 07 Trenchless Installation of Utility Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 24-0002			Steel Pipe <small>(33 05 07 24-0001)</small>		
33 05 07 24-0003	LF		1-1/2" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	11.71	
33 05 07 24-0004	LF		2" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	12.42	
33 05 07 24-0005	LF		2-1/2" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	13.39	
33 05 07 24-0006	LF		3" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	14.39	
33 05 07 24-0007	LF		4" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	18.08	
33 05 07 24-0008	LF		5" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	20.38	
33 05 07 24-0009	LF		6" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	22.69	
33 05 07 24-0010			Polyethylene Pipe <small>(33 05 07 24-0001)</small>		
33 05 07 24-0011	LF		3/4" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	4.55	
33 05 07 24-0012	LF		1" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	4.99	
33 05 07 24-0013	LF		1-1/4" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	5.42	
33 05 07 24-0014	LF		1-1/2" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	5.78	
33 05 07 24-0015	LF		2" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	6.20	
33 05 07 24-0016	LF		2-1/2" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	6.62	
33 05 07 24-0017	LF		3" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	7.06	
33 05 07 24-0018	LF		4" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	8.58	
33 05 07 24-0019	LF		5" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	9.50	
33 05 07 24-0020	LF		6" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	10.43	
33 05 07 24-0021	LF		8" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	13.61	
33 05 07 24-0022	LF		10" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	18.56	
33 05 61			Concrete Manholes <small>(33 05)</small>		
33 05 61 00-0001			Manholes <small>(33 05 61)</small>		
33 05 61 00-0002			Cast In Place Concrete, 8" Thick <small>(33 05 61 00-0001)</small> Note: Includes base, wall, top and block-out for openings.		
33 05 61 00-0003			48" Diameter <small>(33 05 61 00-0002)</small>		
33 05 61 00-0004	EA		4' Diameter x 4' Deep Cast In Place Manhole 8" Thick.....	1,659.10	521.84
33 05 61 00-0005	EA		4' Diameter x 6' Deep Cast In Place Manhole 8" Thick.....	2,289.16	713.94
33 05 61 00-0006	EA		4' Diameter x 8' Deep Cast In Place Manhole 8" Thick.....	3,247.68	1,070.28
33 05 61 00-0007	VLF		4' Diameter x Vertical Linear Foot Depth Cast In Place Manhole 8" Thick, Over 8'.....	401.03	133.83
33 05 61 00-0008			Precast Concrete Manholes <small>(33 05 61 00-0001)</small> Note: Includes base, riser(s), reducer and openings. See CSI section 33 05 84 00-0002 for top slabs.		
33 05 61 00-0009			3' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0008)</small>		
33 05 61 00-0010	EA		4' Deep, 3' Diameter, Precast Concrete Manhole..... For Bitumastic Coating, Add For Epoxy Coating, Add	1,075.71 43.87 83.83	232.21
33 05 61 00-0011	EA		6' Deep, 3' Diameter, Precast Concrete Manhole..... For Bitumastic Coating, Add For Epoxy Coating, Add	1,475.02 65.80 125.74	333.54
33 05 61 00-0012	EA		8' Deep, 3' Diameter, Precast Concrete Manhole..... For Bitumastic Coating, Add For Epoxy Coating, Add	2,017.88 87.74 167.66	506.64
33 05 61 00-0013	VLF		Riser For 3' Diameter, Precast Concrete Manhole..... Note: For depths greater than 8'. For Bitumastic Coating, Add For Epoxy Coating, Add	216.54 10.97 20.96	59.11
33 05 61 00-0014	VLF		Drop Collar For 3' Diameter, Precast Concrete Manhole.....	230.96	59.11
33 05 61 00-0015	EA		Drop Base For 3' Diameter, Precast Concrete Manhole.....	351.00	59.11
33 05 61 00-0016	EA		Extended Base Slab For 3' Diameter, Precast Concrete Manhole.....	286.53	59.11
33 05 61 00-0017	EA		Precast Channel For 3' Diameter, Precast Concrete Manhole.....	396.33	59.11
33 05 61 00-0018			4' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0008)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 61 00-0019 EA 4' Deep, 4' Diameter, Precast Concrete Manhole.....	1,350.54	265.99
<i>For Bitumastic Coating, Add</i>	43.87	
<i>For Epoxy Coating, Add</i>	83.83	
33 05 61 00-0020 EA 6' Deep, 4' Diameter, Precast Concrete Manhole.....	1,809.07	363.09
<i>For Bitumastic Coating, Add</i>	65.80	
<i>For Epoxy Coating, Add</i>	125.74	
33 05 61 00-0021 EA 8' Deep, 4' Diameter, Precast Concrete Manhole.....	2,437.18	548.86
<i>For Bitumastic Coating, Add</i>	87.74	
<i>For Epoxy Coating, Add</i>	167.66	
33 05 61 00-0022 VLF Riser For 4' Diameter, Precast Concrete Manhole	268.32	69.66
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	10.97	
<i>For Epoxy Coating, Add</i>	20.96	
33 05 61 00-0023 VLF Drop Collar For 4' Diameter, Precast Concrete Manhole.....	287.56	69.66
33 05 61 00-0024 EA Drop Base For 4' Diameter, Precast Concrete Manhole.....	447.59	69.66
33 05 61 00-0025 EA Extended Base Slab For 4' Diameter, Precast Concrete Manhole	361.65	69.66
33 05 61 00-0026 EA Precast Channel For 4' Diameter, Precast Concrete Manhole	508.04	69.66
 33 05 61 00-0027 5' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0008)</small>		
33 05 61 00-0028 EA 4' Deep, 5' Diameter, Precast Concrete Manhole.....	2,382.50	295.54
<i>For Bitumastic Coating, Add</i>	56.52	
<i>For Epoxy Coating, Add</i>	135.14	
33 05 61 00-0029 EA 6' Deep, 5' Diameter, Precast Concrete Manhole.....	3,180.52	405.32
<i>For Bitumastic Coating, Add</i>	84.78	
<i>For Epoxy Coating, Add</i>	202.71	
33 05 61 00-0030 EA 8' Deep, 5' Diameter, Precast Concrete Manhole.....	4,166.50	607.97
<i>For Bitumastic Coating, Add</i>	113.04	
<i>For Epoxy Coating, Add</i>	270.28	
33 05 61 00-0031 VLF Riser For 5' Diameter, Precast Concrete Manhole	442.56	76.00
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	14.13	
<i>For Epoxy Coating, Add</i>	33.79	
 33 05 61 00-0032 6' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0008)</small>		
33 05 61 00-0033 EA 4' Deep, 6' Diameter, Precast Concrete Manhole.....	3,145.59	329.32
<i>For Bitumastic Coating, Add</i>	64.71	
<i>For Epoxy Coating, Add</i>	158.21	
33 05 61 00-0034 EA 6' Deep, 6' Diameter, Precast Concrete Manhole.....	4,112.93	447.53
<i>For Bitumastic Coating, Add</i>	97.06	
<i>For Epoxy Coating, Add</i>	237.32	
33 05 61 00-0035 EA 8' Deep, 6' Diameter, Precast Concrete Manhole.....	5,290.71	675.52
<i>For Bitumastic Coating, Add</i>	129.42	
<i>For Epoxy Coating, Add</i>	316.43	
33 05 61 00-0036 VLF Riser For 6' Diameter, Precast Concrete Manhole	531.72	84.44
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	16.18	
<i>For Epoxy Coating, Add</i>	39.55	
 33 05 61 00-0037 7' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0008)</small>		
33 05 61 00-0038 EA 4' Deep, 7' Diameter, Precast Concrete Manhole.....	4,843.09	363.09
<i>For Bitumastic Coating, Add</i>	137.61	
<i>For Epoxy Coating, Add</i>	276.47	
33 05 61 00-0039 EA 6' Deep, 7' Diameter, Precast Concrete Manhole.....	6,282.00	495.24
<i>For Bitumastic Coating, Add</i>	206.41	
<i>For Epoxy Coating, Add</i>	414.70	
33 05 61 00-0040 EA 8' Deep, 7' Diameter, Precast Concrete Manhole.....	7,952.25	743.07
<i>For Bitumastic Coating, Add</i>	275.21	
<i>For Epoxy Coating, Add</i>	552.94	
33 05 61 00-0041 VLF Riser For 7' Diameter, Precast Concrete Manhole	773.07	92.89
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	34.40	
<i>For Epoxy Coating, Add</i>	69.12	
 33 05 61 00-0042 8' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0008)</small>		
33 05 61 00-0043 EA 4' Deep, 8' Diameter, Precast Concrete Manhole.....	6,928.83	417.98
<i>For Bitumastic Coating, Add</i>	162.68	
<i>For Epoxy Coating, Add</i>	336.99	
33 05 61 00-0044 EA 6' Deep, 8' Diameter, Precast Concrete Manhole.....	9,005.08	569.97
<i>For Bitumastic Coating, Add</i>	244.02	
<i>For Epoxy Coating, Add</i>	505.49	
33 05 61 00-0045 EA 8' Deep, 8' Diameter, Precast Concrete Manhole.....	11,347.32	854.95
<i>For Bitumastic Coating, Add</i>	325.36	
<i>For Epoxy Coating, Add</i>	673.98	
33 05 61 00-0046 VLF Riser For 8' Diameter, Precast Concrete Manhole	1,097.23	105.55
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	40.67	
<i>For Epoxy Coating, Add</i>	84.25	

33 Utilities**33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 05 63 Concrete Vaults and Chambers (33 05)

33 05 63 00-0001	Underground Utility Vaults And Structures <small>(33 05 63)</small> See CSI section 33 05 61 00-0001 for manholes, 33 05 84 00-0088 for frames and covers.		
33 05 63 00-0002	Precast Concrete Underground Utility Vault <small>(33 05 63 00-0001)</small> Note: Sizes given are for inside dimensions.		
33 05 63 00-0003	6' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>		
33 05 63 00-0004	EA 4' x 4' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	2,950.45	
33 05 63 00-0005	EA 4' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,845.91	
33 05 63 00-0006	EA 5' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,344.78	
33 05 63 00-0007	EA 5' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,326.15	
33 05 63 00-0008	EA 6' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,914.85	
33 05 63 00-0009	EA 6' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,982.93	
33 05 63 00-0010	EA 6' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,051.87	
33 05 63 00-0011	EA 6' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	10,188.57	
33 05 63 00-0012	EA 6' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	10,188.57	
33 05 63 00-0013	EA 6' x 16' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,829.04	
33 05 63 00-0014	EA 8' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,225.36	
33 05 63 00-0015	EA 8' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,466.95	
33 05 63 00-0016	EA 8' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,102.76	
33 05 63 00-0017	EA 8' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,621.56	
33 05 63 00-0018	7' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>		
33 05 63 00-0019	EA 4' x 4' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,248.08	
33 05 63 00-0020	EA 4' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,217.53	
33 05 63 00-0021	EA 4' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,186.96	
33 05 63 00-0022	EA 5' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,901.80	
33 05 63 00-0023	EA 5' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,957.98	
33 05 63 00-0024	EA 6' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,360.44	
33 05 63 00-0025	EA 6' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,503.40	
33 05 63 00-0026	EA 6' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,646.29	
33 05 63 00-0027	EA 6' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	11,079.76	
33 05 63 00-0028	EA 6' x 16' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,918.37	
33 05 63 00-0029	EA 8' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,819.77	
33 05 63 00-0030	EA 8' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,135.35	
33 05 63 00-0031	EA 8' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,093.52	
33 05 63 00-0032	EA 8' x 14' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,710.04	
33 05 63 00-0033	EA 10' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,291.05	
33 05 63 00-0034	8' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>		
33 05 63 00-0035	EA 4' x 4' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,544.86	
33 05 63 00-0036	EA 4' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,589.14	
33 05 63 00-0037	EA 5' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,458.80	
33 05 63 00-0038	EA 5' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,588.96	
33 05 63 00-0039	EA 6' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,806.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0040 EA 6' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,022.98	
33 05 63 00-0041 EA 6' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,239.90	
33 05 63 00-0042 EA 6' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	11,970.95	
33 05 63 00-0043 EA 6' x 16' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,007.75	
33 05 63 00-0044 EA 8' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,413.35	
33 05 63 00-0045 EA 8' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,803.75	
33 05 63 00-0046 EA 8' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,083.36	
33 05 63 00-0047 EA 8' x 14' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,799.42	
33 05 63 00-0048 EA 10' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,281.50	
33 05 63 00-0049 10' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0050 EA 6' x 6' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,251.67	
33 05 63 00-0051 EA 6' x 8' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,542.55	
33 05 63 00-0052 EA 10' x 10' x 10' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,271.30	
33 05 63 00-0053 12' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0054 EA 6' x 6' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,697.28	
33 05 63 00-0055 EA 6' x 8' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,063.01	
33 05 63 00-0056 Meter Pit (33 05 63 00-0001)		
33 05 63 00-0057 Precast Concrete Meter Pit (33 05 63 00-0056)		
33 05 63 00-0058 EA 4' x 4' x 4' Deep Precast Concrete Meter Pit.....	2,064.00	
33 05 63 00-0059 EA 4' x 4' x 6' Deep Precast Concrete Meter Pit.....	2,760.95	
33 05 63 00-0060 EA 4' x 4' x 8' Deep Precast Concrete Meter Pit.....	3,411.93	
33 05 63 00-0061 EA 4' x 4' x 10' Deep Precast Concrete Meter Pit.....	4,195.84	
33 05 63 00-0062 EA 4' x 4' x 15' Deep Precast Concrete Meter Pit.....	5,690.91	
33 05 63 00-0063 EA 6' x 6' x 4' Deep Precast Concrete Meter Pit.....	3,094.61	
33 05 63 00-0064 EA 6' x 6' x 6' Deep Precast Concrete Meter Pit.....	4,195.84	
33 05 63 00-0065 EA 6' x 6' x 8' Deep Precast Concrete Meter Pit.....	5,353.56	
33 05 63 00-0066 EA 6' x 6' x 10' Deep Precast Concrete Meter Pit.....	6,680.85	
33 05 63 00-0067 EA 6' x 6' x 15' Deep Precast Concrete Meter Pit.....	9,273.59	
33 05 63 00-0068 Handhole Or Pull Box Enclosures (33 05 63 00-0001)		
33 05 63 00-0069 Polymer Concrete Handhole Enclosures (33 05 63 00-0068)		
33 05 63 00-0070 Polymer Concrete Handhole Enclosures (33 05 63 00-0069)		
33 05 63 00-0071 Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)		
33 05 63 00-0072 Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)		
33 05 63 00-0073 EA 12" x 12", 24" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	218.64	18.94
33 05 63 00-0074 EA 10" x 15", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	196.24	42.07
33 05 63 00-0075 EA 13" x 24", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	299.29	63.10
33 05 63 00-0076 EA 17" x 30", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	344.92	63.10
33 05 63 00-0077 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	329.84	63.10
33 05 63 00-0078 EA 13" x 24", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	395.65	63.10
33 05 63 00-0079 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	385.72	63.10
33 05 63 00-0080 EA 17" x 30", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	518.98	63.10
33 05 63 00-0081 EA 27" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	735.53	84.14
33 05 63 00-0082 EA 27" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,022.31	84.14
33 05 63 00-0083 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	679.15	115.69

33 Utilities**33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0084 EA 24" x 36", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	768.96	115.69
33 05 63 00-0085 EA 24" x 36", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,236.15	115.69
33 05 63 00-0086 EA 39" Round, 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	726.02	126.20
33 05 63 00-0087 EA 39" Round, 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,020.20	126.20
33 05 63 00-0088 EA 39" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,260.76	126.20
33 05 63 00-0089 EA 39" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,829.74	126.20
33 05 63 00-0090 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,047.38	191.20
33 05 63 00-0091 EA 30" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,490.13	191.20
33 05 63 00-0092 Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0071)</small>		
33 05 63 00-0093 EA 12" x 12", 24" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	278.25	18.94
33 05 63 00-0094 EA 13" x 24", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	370.29	63.10
33 05 63 00-0095 EA 17" x 30", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	443.73	63.10
33 05 63 00-0096 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	410.86	63.10
33 05 63 00-0097 EA 13" x 24", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	467.10	63.10
33 05 63 00-0098 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	481.85	63.10
33 05 63 00-0099 EA 17" x 30", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	615.94	63.10
33 05 63 00-0100 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	830.12	115.69
33 05 63 00-0101 EA 24" x 36", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	919.93	115.69
33 05 63 00-0102 EA 24" x 36", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,387.13	115.69
33 05 63 00-0103 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,223.80	191.20
33 05 63 00-0104 EA 30" x 48", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,669.92	191.20
33 05 63 00-0105 Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0070)</small>		
33 05 63 00-0106 Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0107 EA 5" x 16", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	354.96	18.94
33 05 63 00-0108 EA 10" x 12", 15" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	301.01	18.94
33 05 63 00-0109 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	259.47	63.10
33 05 63 00-0110 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	291.31	63.10
33 05 63 00-0111 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	87.89	18.94
33 05 63 00-0112 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	133.01	18.94
33 05 63 00-0113 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	211.32	18.94
33 05 63 00-0114 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	220.79	18.94
33 05 63 00-0115 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	192.94	42.07
33 05 63 00-0116 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	207.47	42.07
33 05 63 00-0117 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	131.07	18.94
33 05 63 00-0118 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	148.83	18.94
33 05 63 00-0119 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	205.96	42.07
33 05 63 00-0120 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	230.40	42.07
33 05 63 00-0121 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	214.58	42.07
33 05 63 00-0122 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	260.96	63.10
33 05 63 00-0123 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	284.93	63.10
33 05 63 00-0124 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	302.75	63.10
33 05 63 00-0125 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	329.60	63.10
33 05 63 00-0126 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	383.14	63.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0127 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	415.62	63.10
33 05 63 00-0128 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	451.16	63.10
33 05 63 00-0129 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	473.50	63.10
33 05 63 00-0130 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	567.08	84.14
33 05 63 00-0131 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	581.86	115.69
33 05 63 00-0132 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	737.51	115.69
33 05 63 00-0133 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	881.22	115.69
33 05 63 00-0134 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	971.98	115.69
33 05 63 00-0135 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,062.26	115.69
33 05 63 00-0136 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,220.11	191.20
33 05 63 00-0137 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	901.94	191.20
33 05 63 00-0138 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,017.22	191.20
33 05 63 00-0139 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,237.64	191.20
33 05 63 00-0140 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,235.38	191.20
33 05 63 00-0141 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,317.66	191.20
33 05 63 00-0142 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,475.90	191.20
33 05 63 00-0143 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,365.14	204.86
33 05 63 00-0144 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,476.86	204.86
33 05 63 00-0145 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,619.50	204.86
33 05 63 00-0146 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,676.57	204.86
33 05 63 00-0147 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,696.41	204.86
33 05 63 00-0148 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,913.74	204.86
33 05 63 00-0149 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,491.67	204.86
33 05 63 00-0150 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,949.61	204.86
33 05 63 00-0151 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,191.26	218.51
33 05 63 00-0152 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,689.52	218.51
33 05 63 00-0153 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,432.07	218.51
33 05 63 00-0154 Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures		
33 05 63 00-0155 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	342.13	63.10
33 05 63 00-0156 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	389.35	63.10
33 05 63 00-0157 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	144.50	18.94
33 05 63 00-0158 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	206.16	18.94
33 05 63 00-0159 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	274.32	18.94
33 05 63 00-0160 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	283.81	18.94
33 05 63 00-0161 EA 10" x 15", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	255.00	42.07
33 05 63 00-0162 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	265.11	42.07
33 05 63 00-0163 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	278.64	42.07
33 05 63 00-0164 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	192.79	18.94
33 05 63 00-0165 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	226.73	18.94
33 05 63 00-0166 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	278.31	42.07
33 05 63 00-0167 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	302.75	42.07

33 Utilities**33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0168 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	287.70	42.07
33 05 63 00-0169 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	341.67	63.10
33 05 63 00-0170 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	365.94	63.10
33 05 63 00-0171 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	399.07	63.10
33 05 63 00-0172 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	425.75	63.10
33 05 63 00-0173 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	479.13	63.10
33 05 63 00-0174 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	511.75	63.10
33 05 63 00-0175 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	547.13	63.10
33 05 63 00-0176 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	569.64	63.10
33 05 63 00-0177 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	699.88	84.14
33 05 63 00-0178 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	732.85	115.69
33 05 63 00-0179 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	888.31	115.69
33 05 63 00-0180 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,031.87	115.69
33 05 63 00-0181 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,122.48	115.69
33 05 63 00-0182 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,213.06	115.69
33 05 63 00-0183 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,076.70	191.20
33 05 63 00-0184 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,192.14	191.20
33 05 63 00-0185 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,412.40	191.20

33 05 63 00-0186 Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)

33 05 63 00-0187 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	315.74	63.10
33 05 63 00-0188 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	364.27	63.10
33 05 63 00-0189 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	108.41	18.94
33 05 63 00-0190 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	174.48	18.94
33 05 63 00-0191 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	247.95	18.94
33 05 63 00-0192 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	257.62	18.94
33 05 63 00-0193 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	237.64	42.07
33 05 63 00-0194 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	265.77	42.07
33 05 63 00-0195 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	153.44	18.94
33 05 63 00-0196 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	251.46	42.07
33 05 63 00-0197 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	286.50	42.07
33 05 63 00-0198 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	260.57	42.07
33 05 63 00-0199 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	337.95	63.10
33 05 63 00-0200 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	385.86	63.10
33 05 63 00-0201 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	401.79	63.10
33 05 63 00-0202 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	439.73	63.10
33 05 63 00-0203 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	474.63	63.10
33 05 63 00-0204 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	507.58	63.10
33 05 63 00-0205 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	566.57	63.10
33 05 63 00-0206 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	574.80	63.10
33 05 63 00-0207 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	710.16	84.14
33 05 63 00-0208 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	746.19	115.69
33 05 63 00-0209 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	917.88	115.69
33 05 63 00-0210 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,087.67	115.69
33 05 63 00-0211 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,200.45	115.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0212 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,313.23	115.69
33 05 63 00-0213 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,430.24	191.20
33 05 63 00-0214 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,112.08	191.20
33 05 63 00-0215 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,236.35	191.20
33 05 63 00-0216 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,456.62	191.20
33 05 63 00-0217 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,553.78	191.20
33 05 63 00-0218 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,584.20	191.20
33 05 63 00-0219 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,879.36	191.20
33 05 63 00-0220 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,751.38	204.86
33 05 63 00-0221 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,809.11	204.86
33 05 63 00-0222 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,972.87	204.86
33 05 63 00-0223 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,096.80	204.86
33 05 63 00-0224 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,931.14	204.86
33 05 63 00-0225 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,374.39	204.86
33 05 63 00-0226 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,069.14	204.86
33 05 63 00-0227 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,268.02	204.86
33 05 63 00-0228 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,738.31	218.51
33 05 63 00-0229 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,236.76	218.51
33 05 63 00-0230 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,342.92	218.51
33 05 63 00-0231 Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures		
<small>(33 05 63 00-0105)</small>		
33 05 63 00-0232 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	398.37	63.10
33 05 63 00-0233 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	462.50	63.10
33 05 63 00-0234 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	164.56	18.94
33 05 63 00-0235 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	247.48	18.94
33 05 63 00-0236 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	310.83	18.94
33 05 63 00-0237 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	320.62	18.94
33 05 63 00-0238 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	309.99	42.07
33 05 63 00-0239 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	337.95	42.07
33 05 63 00-0240 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	233.67	18.94
33 05 63 00-0241 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	323.48	42.07
33 05 63 00-0242 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	358.53	42.07
33 05 63 00-0243 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	313.04	42.07
33 05 63 00-0244 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	418.99	63.10
33 05 63 00-0245 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	466.90	63.10
33 05 63 00-0246 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	497.93	63.10
33 05 63 00-0247 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	535.88	63.10
33 05 63 00-0248 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	570.76	63.10
33 05 63 00-0249 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	603.72	63.10
33 05 63 00-0250 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	662.74	63.10
33 05 63 00-0251 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	670.93	63.10
33 05 63 00-0252 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	842.79	84.14

33 Utilities**33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0253 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	897.16	115.69
33 05 63 00-0254 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,068.69	115.69
33 05 63 00-0255 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,238.30	115.69
33 05 63 00-0256 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,351.16	115.69
33 05 63 00-0257 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,464.03	115.69
33 05 63 00-0258 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,286.99	191.20
33 05 63 00-0259 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,411.43	191.20
33 05 63 00-0260 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,631.54	191.20
33 05 63 00-0261 Footed, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0262 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	335.89	63.10
33 05 63 00-0263 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	226.69	42.07
33 05 63 00-0264 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	253.71	42.07
33 05 63 00-0265 EA 13" x 24", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	300.82	63.10
33 05 63 00-0266 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	235.54	42.07
33 05 63 00-0267 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	261.42	42.07
33 05 63 00-0268 Polymer Concrete Handhole Enclosure Extensions (33 05 63 00-0069)		
33 05 63 00-0269 EA 13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	250.51	63.10
33 05 63 00-0270 EA 17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	278.67	63.10
33 05 63 00-0271 EA 24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	323.36	84.14
33 05 63 00-0272 EA 24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	351.01	84.14
33 05 63 00-0273 EA 24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	420.65	115.69
33 05 63 00-0274 EA 36" x 36", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	737.95	191.20
33 05 63 00-0275 EA 30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	707.72	191.20
33 05 63 00-0276 EA 30" x 48", 11" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	714.32	191.20
33 05 63 00-0277 EA 36" x 60", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	947.54	204.86
33 05 63 00-0278 EA 48" x 72", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,471.71	218.51
33 05 63 00-0279 EA 48" x 96", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,910.77	218.51
33 05 63 00-0280 EA 13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	398.26	63.10
33 05 63 00-0281 EA 17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	415.46	63.10
33 05 63 00-0282 EA 24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	449.39	84.14
33 05 63 00-0283 EA 24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	477.34	84.14
33 05 63 00-0284 EA 24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	558.88	115.69
33 05 63 00-0285 EA 30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	903.07	191.20
33 05 63 00-0286 EA 13" x 24", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	314.17	63.10
33 05 63 00-0287 EA 17" x 30", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	348.10	63.10
33 05 63 00-0288 EA 24" x 36", 4" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	469.33	115.69
33 05 63 00-0289 EA 36" x 60", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	915.18	204.86
33 05 63 00-0290 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0069)		
33 05 63 00-0291 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)		
33 05 63 00-0292 EA 5" x 16", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	85.04	8.42
33 05 63 00-0293 EA 10" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	86.13	8.42
33 05 63 00-0294 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	79.93	8.42
33 05 63 00-0295 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	86.34	8.42
33 05 63 00-0296 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	87.18	8.42
33 05 63 00-0297 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	99.80	8.42
33 05 63 00-0298 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	115.42	8.42
33 05 63 00-0299 EA 30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	751.80	24.59



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0300 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	658.67	24.59
33 05 63 00-0301 EA 36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	983.04	24.59
33 05 63 00-0302 EA 48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	994.10	24.59
33 05 63 00-0303 EA 36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,125.35	24.59
33 05 63 00-0304 EA 48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,225.60	24.59
33 05 63 00-0305 EA 48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,965.77	24.59
33 05 63 00-0306 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	73.06	8.42
33 05 63 00-0307 EA 11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	104.05	8.42
33 05 63 00-0308 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	105.49	8.42
33 05 63 00-0309 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	132.35	8.42
33 05 63 00-0310 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover.....	100.20	8.42
33 05 63 00-0311 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	156.31	8.42
33 05 63 00-0312 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover.....	123.03	8.42
33 05 63 00-0313 EA 27" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	250.97	8.42
33 05 63 00-0314 EA 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	220.79	12.62
33 05 63 00-0315 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	276.17	12.62
33 05 63 00-0316 EA 39" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	355.69	14.73
33 05 63 00-0317 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	499.23	19.12
33 05 63 00-0318 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	519.21	36.42
33 05 63 00-0319 EA 11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	133.96	8.42
33 05 63 00-0320 EA 13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	190.39	8.42
33 05 63 00-0321 EA 17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	216.44	8.42
33 05 63 00-0322 EA 27" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	358.95	8.42
33 05 63 00-0323 EA 24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	296.92	12.62
33 05 63 00-0324 EA 39" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	500.69	14.73
33 05 63 00-0325 EA 36" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	656.30	19.12
33 05 63 00-0326 EA 30" x 59", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	885.31	24.59
33 05 63 00-0327 EA 30" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	787.74	24.59
33 05 63 00-0328 EA 36" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,098.02	24.59
33 05 63 00-0329 EA 48" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,428.00	24.59
33 05 63 00-0330 EA 36" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,367.81	24.59
33 05 63 00-0331 EA 48" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	2,073.23	24.59
33 05 63 00-0332 EA 48" x 96", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	3,199.17	24.59
33 05 63 00-0333 EA 11" x 18", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	175.77	8.42
33 05 63 00-0334 EA 11" x 20", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	192.08	8.42
33 05 63 00-0335 EA 13" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	252.46	8.42
33 05 63 00-0336 EA 17" x 30", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	287.50	8.42
33 05 63 00-0337 EA 27" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	495.88	8.42
33 05 63 00-0338 EA 24" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	361.45	12.62
33 05 63 00-0339 EA 24" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	493.38	12.62
33 05 63 00-0340 EA 39" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	764.14	14.73
33 05 63 00-0341 EA 36" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	874.94	19.12
33 05 63 00-0342 EA 30" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	910.69	36.42
33 05 63 00-0343 EA 30" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,053.30	24.59
33 05 63 00-0344 EA 36" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,468.14	24.59
33 05 63 00-0345 EA 48" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	2,051.64	24.59
33 05 63 00-0346 EA 36" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,831.43	24.59
33 05 63 00-0347 EA 48" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	3,031.20	24.59
33 05 63 00-0348 EA 48" x 96", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	4,675.49	24.59
33 05 63 00-0349 Polymer Concrete Handhole Enclosure Covers With Gaskets (33 05 63 00-0290)		
33 05 63 00-0350 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	97.46	8.42
33 05 63 00-0351 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	102.91	8.42
33 05 63 00-0352 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	104.71	8.42
33 05 63 00-0353 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	105.38	8.42
33 05 63 00-0354 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	121.38	8.42
33 05 63 00-0355 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	78.09	8.42
33 05 63 00-0356 EA 11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	109.21	8.42
33 05 63 00-0357 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	110.21	8.42
33 05 63 00-0358 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	137.67	8.42
33 05 63 00-0359 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket.....	105.99	8.42
33 05 63 00-0360 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket.....	129.15	8.42
33 05 63 00-0361 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	161.94	8.42
33 05 63 00-0362 EA 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	224.57	12.62
33 05 63 00-0363 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	281.97	12.62
33 05 63 00-0364 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	525.17	36.42
33 05 63 00-0365 EA 6" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	65.28	8.42
33 05 63 00-0366 EA 8" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	101.20	8.42
33 05 63 00-0367 EA 8" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	112.41	8.42
33 05 63 00-0368 EA 12" x 12", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	107.43	8.42
33 05 63 00-0369 EA 10" x 15", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	88.79	8.42
33 05 63 00-0370 EA 11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	139.11	8.42
33 05 63 00-0371 EA 11" x 20", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	150.73	8.42
33 05 63 00-0372 EA 13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	195.87	8.42
33 05 63 00-0373 EA 17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	222.39	8.42
33 05 63 00-0374 EA 24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	302.24	12.62
33 05 63 00-0375 EA 24" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	376.81	12.62
33 05 63 00-0376 EA 30" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	689.95	36.42

33 Utilities**33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0377			Polymer Concrete Handhole Enclosure Covers Without Bolts <small>(33 05 63 00-0290)</small>		
33 05 63 00-0378	EA		6" x 9", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	52.92	8.42
33 05 63 00-0379	EA		7" x 13", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	62.59	8.42
33 05 63 00-0380	EA		12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	75.60	8.42
33 05 63 00-0381	EA		8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	81.38	8.42
33 05 63 00-0382	EA		11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	81.24	8.42
33 05 63 00-0383	EA		13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	96.06	8.42
33 05 63 00-0384	EA		17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	110.62	8.42
33 05 63 00-0385	EA		24" x 36", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	266.68	12.62
33 05 63 00-0386	EA		30" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	497.52	36.42
33 05 63 00-0387	EA		30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	743.66	24.59
33 05 63 00-0388	EA		30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	649.48	24.59
33 05 63 00-0389	EA		48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	967.92	24.59
33 05 63 00-0390	EA		36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	934.25	24.59
33 05 63 00-0391	EA		36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	1,116.57	24.59
33 05 63 00-0392	EA		48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	1,193.17	24.59
33 05 63 00-0393	EA		48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	1,903.44	24.59
33 05 63 00-0394	EA		10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	70.31	8.42
33 05 63 00-0395	EA		10" x 16", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	68.69	8.42
33 05 63 00-0396	EA		11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	100.57	8.42
33 05 63 00-0397	EA		11" x 21", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	110.33	8.42
33 05 63 00-0398	EA		13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	124.64	8.42
33 05 63 00-0399	EA		13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	95.22	8.42
33 05 63 00-0400	EA		18" x 19", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	105.99	8.42
33 05 63 00-0401	EA		17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	149.55	8.42
33 05 63 00-0402	EA		24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	216.42	12.62
33 05 63 00-0403	EA		20" x 42", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	269.69	12.62
33 05 63 00-0404	EA		24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	266.52	12.62
33 05 63 00-0405	EA		36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	479.45	19.12
33 05 63 00-0406	EA		30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	497.52	21.85
33 05 63 00-0407			Overlapping, Polymer Concrete Handhole Enclosure Covers <small>(33 05 63 00-0290)</small>		
33 05 63 00-0408	EA		30" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	774.00	24.59
33 05 63 00-0409	EA		36" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	1,117.69	24.59
33 05 63 00-0410	EA		30" x 48", 8,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	649.75	36.42
33 05 63 00-0411	EA		30" x 48", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	859.56	36.42
33 05 63 00-0412	EA		30" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	918.32	24.59
33 05 63 00-0413	EA		36" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	1,249.10	24.59
33 05 63 00-0414			Split, Polymer Concrete Handhole Enclosure Covers <small>(33 05 63 00-0290)</small>		
33 05 63 00-0415	EA		24" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	302.33	12.62
33 05 63 00-0416	EA		36" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	561.13	19.12
33 05 63 00-0417	EA		30" x 48", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	587.23	36.42
33 05 63 00-0418	EA		6" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	50.23	8.42
33 05 63 00-0419	EA		8" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	81.90	8.42
33 05 63 00-0420	EA		12" x 12", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	89.90	8.42
33 05 63 00-0421	EA		8" x 18", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	95.21	8.42
33 05 63 00-0422	EA		10" x 15", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	83.80	8.42
33 05 63 00-0423	EA		11" x 20", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	146.02	8.42
33 05 63 00-0424	EA		24" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	404.05	12.62
33 05 63 00-0425	EA		36" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	744.58	19.12
33 05 63 00-0426	EA		30" x 48", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	780.79	36.42
33 05 63 00-0427			Precast Concrete Handholes With Steel Cover <small>(33 05 63 00-0068)</small>		
			Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).		
33 05 63 00-0428	EA		12" x 12" x 12" Precast Concrete Handholes With Steel Cover.....	669.19	195.43
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	18.00	
33 05 63 00-0429	EA		12" x 24" x 21" Precast Concrete Handholes With Steel Cover.....	1,117.18	293.14
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	92.96	
33 05 63 00-0430	EA		18" x 30" x 18" Precast Concrete Handholes With Steel Cover.....	1,361.94	390.86
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	159.30	
33 05 63 00-0431	EA		24" x 24" x 24" Precast Concrete Handholes With Steel Cover.....	1,411.47	390.86
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	199.27	
33 05 63 00-0432	EA		24" x 24" x 30" Precast Concrete Handholes With Steel Cover.....	1,665.63	488.58
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	238.20	
33 05 63 00-0433	EA		30" x 36" x 30" Precast Concrete Handholes With Steel Cover.....	1,748.10	488.58
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	266.59	
33 05 63 00-0434	EA		36" x 36" x 48" Precast Concrete Handholes With Steel Cover.....	2,024.46	586.29
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	309.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0435 EA 48" x 48" x 48" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	2,326.80	684.01
<i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	<i>446.62</i>	
33 05 63 00-0436 EA 48" x 72" x 36" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	2,268.66	586.29
<i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	<i>499.23</i>	
33 05 63 00-0437 EA 54" x 38" x 24" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	2,289.66	586.29
<i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	<i>329.03</i>	
33 05 63 00-0438 EA 6" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	534.76	195.43
<i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	<i>15.00</i>	
33 05 63 00-0439 EA 9" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	627.85	219.86
<i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	<i>15.00</i>	
33 05 63 00-0440 EA 12" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	765.18	244.29
<i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	<i>15.00</i>	

33 05 84 Accessories for Utility Structures (33 05)

See CSI section 22 13 19 26-0044 for oil interceptors, 22 13 23 00-0000 for sediment interceptors, 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 05 84 00-0001 Manhole Accessories (33 05 84)

33 05 84 00-0002 Precast Concrete Manhole Tops (33 05 84 00-0001)

33 05 84 00-0003 Precast Concrete Manhole Slab Tops (33 05 84 00-0002)

33 05 84 00-0004 EA 3' Diameter x 8" Thick Precast Manhole Top Slab	437.97	63.33
33 05 84 00-0005 EA 4' Diameter x 8" Thick Precast Manhole Top Slab	602.55	68.40
33 05 84 00-0006 EA 5' Diameter x 8" Thick Precast Manhole Top Slab	805.50	73.46
33 05 84 00-0007 EA 6' Diameter x 8" Thick Precast Manhole Top Slab	959.89	78.53

33 05 84 00-0008 Precast Concrete Manhole Cone Tops (33 05 84 00-0002)

33 05 84 00-0009 EA 3' Diameter x 8" Thick Precast Manhole Top Cone	685.94	79.17
33 05 84 00-0010 EA 3'-6" Diameter x 8" Thick Precast Manhole Top Cone	760.15	82.33
33 05 84 00-0011 EA 4' Diameter x 8" Thick Precast Manhole Top Cone	834.38	85.50
33 05 84 00-0012 EA 5' Diameter x 8" Thick Precast Manhole Top Cone	978.57	90.77
33 05 84 00-0013 EA 6' Diameter x 8" Thick Precast Manhole Top Cone	1,127.01	97.10
33 05 84 00-0014 EA 7' Diameter x 8" Thick Precast Manhole Top Cone	1,760.75	103.44
33 05 84 00-0015 EA 8' Diameter x 10" Thick Precast Manhole Top Cone	2,203.42	113.99

33 05 84 00-0016 Pipe To Manhole Connector (33 05 84 00-0001)

33 05 84 00-0017 Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors (33 05 84 00-0016)

33 05 84 00-0018 EA 4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	71.38	
33 05 84 00-0019 EA 6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	105.32	
33 05 84 00-0020 EA 8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	118.73	
33 05 84 00-0021 EA 10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	179.94	
33 05 84 00-0022 EA 12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	251.60	
33 05 84 00-0023 EA 15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	332.89	
33 05 84 00-0024 EA 18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	600.39	
33 05 84 00-0025 EA 21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	833.99	
33 05 84 00-0026 EA 24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	1,316.41	
33 05 84 00-0027 EA 27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	1,549.76	

33 05 84 00-0028 Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout

(33 05 84 00-0016)

Note: Fernco CMA.

33 05 84 00-0029 EA 4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	79.72	
33 05 84 00-0030 EA 6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	109.87	
33 05 84 00-0031 EA 8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	138.56	
33 05 84 00-0032 EA 10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	167.15	
33 05 84 00-0033 EA 12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	194.09	

33 05 84 00-0034 Brick And Grout Pipe To Manhole Connector (33 05 84 00-0016)

33 05 84 00-0035 EA Seal Gap Between Pipe And Structure With Brick And Grout	209.89	
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33 05 84 00-0036 Inverts For Manholes (33 05 84 00-0001)

33 05 84 00-0037 EA Single Channel Concrete Invert For Manholes	362.43	
33 05 84 00-0038 EA Double Channel Concrete Invert For Manholes	523.07	
33 05 84 00-0039 EA Triple Channel Concrete Invert For Manholes	704.34	
33 05 84 00-0040 EA Quad Channel Concrete Invert For Manholes	885.58	
33 05 84 00-0041 EA Single Channel Brick Invert For Manholes	572.50	
33 05 84 00-0042 EA Double Channel Brick Invert For Manholes	856.62	

33 Utilities**33 05 Common Work Results For Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0043 EA Triple Channel Brick Invert For Manholes.....	1,145.50	
33 05 84 00-0044 EA Quad Channel Brick Invert For Manholes.....	1,431.67	
33 05 84 00-0045 Steps For Cast-In-Place Manholes (33 05 84 00-0001)		
See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.		
33 05 84 00-0046 EA Cast Iron Manhole Step For New Manholes.....	68.48	
33 05 84 00-0047 EA Galvanized Steel Manhole Step For New Manholes.....	43.96	
33 05 84 00-0048 EA Aluminum Manhole Step For New Manholes.....	56.30	
33 05 84 00-0049 EA Polypropylene Manhole Step For New Manholes.....	35.06	
33 05 84 00-0050 Protective Coating For New Manholes (33 05 84 00-0001)		
33 05 84 00-0051 Polyurethane Protective Coating For New Manholes (33 05 84 00-0050)		
33 05 84 00-0052 VLF 60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior.....	147.89	
For 80 Mil Material, Add	19.83	
For 100 Mil Material, Add	39.67	
For 125 Mil Material, Add	62.32	
For 150 Mil Material, Add	84.98	
For 200 Mil Material, Add	124.58	
For 2 To 5 Manholes, Deduct	-10.25	
For 6 To 10 Manholes, Deduct	-16.79	
For >10 Manholes, Deduct	-33.59	
33 05 84 00-0053 VLF 60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior.....	178.90	
For 80 Mil Material, Add	23.62	
For 100 Mil Material, Add	47.25	
For 125 Mil Material, Add	74.17	
For 150 Mil Material, Add	101.08	
For 200 Mil Material, Add	147.95	
For 2 To 5 Manholes, Deduct	-12.43	
For 6 To 10 Manholes, Deduct	-20.39	
For >10 Manholes, Deduct	-40.77	
33 05 84 00-0054 VLF 60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior.....	197.17	
For 80 Mil Material, Add	26.44	
For 100 Mil Material, Add	52.88	
For 125 Mil Material, Add	83.08	
For 150 Mil Material, Add	113.28	
For 200 Mil Material, Add	166.08	
For 2 To 5 Manholes, Deduct	-13.66	
For 6 To 10 Manholes, Deduct	-22.39	
For >10 Manholes, Deduct	-44.78	
33 05 84 00-0055 VLF 60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior.....	246.51	
For 80 Mil Material, Add	33.07	
For 100 Mil Material, Add	66.13	
For 125 Mil Material, Add	103.90	
For 150 Mil Material, Add	141.67	
For 200 Mil Material, Add	207.70	
For 2 To 5 Manholes, Deduct	-17.08	
For 6 To 10 Manholes, Deduct	-27.99	
For >10 Manholes, Deduct	-55.98	
33 05 84 00-0056 VLF 60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior.....	285.68	
For 80 Mil Material, Add	38.92	
For 100 Mil Material, Add	77.84	
For 125 Mil Material, Add	122.40	
For 150 Mil Material, Add	166.96	
For 200 Mil Material, Add	245.18	
For 2 To 5 Manholes, Deduct	-19.73	
For 6 To 10 Manholes, Deduct	-32.32	
For >10 Manholes, Deduct	-64.65	
33 05 84 00-0057 Polyvinyl Chloride (PVC) Liner (33 05 84 00-0050)		
Note: For new manholes and shop applied.		
33 05 84 00-0058 VLF 3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	159.09	
33 05 84 00-0059 VLF 3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	195.01	
33 05 84 00-0060 VLF 4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	237.99	
33 05 84 00-0061 VLF 5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	298.87	
33 05 84 00-0062 VLF 6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	359.75	
33 05 84 00-0063 SF Polyvinyl Chloride (PVC) Liner At Structures.....	35.28	
33 05 84 00-0064 Concrete Grade Extensions/Grade Rings (33 05 84 00-0001)		
33 05 84 00-0065 18" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0064)		
33 05 84 00-0066 EA 4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings.....	67.33	
33 05 84 00-0067 EA 6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....	73.20	
33 05 84 00-0068 EA 8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....	79.06	
33 05 84 00-0069 EA 10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....	84.93	
33 05 84 00-0070 24" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0064)		
33 05 84 00-0071 EA 4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....	75.55	
33 05 84 00-0072 EA 6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....	82.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0073 EA 8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	88.89	
33 05 84 00-0074 EA 10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	95.55	
33 05 84 00-0075 30" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0064)		
33 05 84 00-0076 EA 4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	83.61	
33 05 84 00-0077 EA 6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	91.04	
33 05 84 00-0078 EA 8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	98.47	
33 05 84 00-0079 EA 10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	105.91	
33 05 84 00-0080 Bentonite Collar (33 05 84 00-0001)		
33 05 84 00-0081 Bentonite Collar At Manhole Connections (33 05 84 00-0080)		
33 05 84 00-0082 EA Up To 12" Pipe, Bentonite Collar At Manhole Connection	109.68	
33 05 84 00-0083 EA >12" To 21", Bentonite Collar At Manhole Connection	173.98	
33 05 84 00-0084 EA >21" To 30" Pipe, Bentonite Collar At Manhole Connection	277.96	
33 05 84 00-0085 EA >30" To 36" Pipe, Bentonite Collar At Manhole Connection	652.34	
33 05 84 00-0086 EA >36" To 48" Pipe, Bentonite Collar At Manhole Connection	1,002.27	
33 05 84 00-0087 EA >48" To 60" Pipe, Bentonite Collar At Manhole Connection	1,815.45	
33 05 84 00-0088 Manhole Covers And Frames (33 05 84)		
Note: Includes moisture-tight masonry joints and waterproof grouting.		
33 05 84 00-0089 Regular Manhole Covers And Frames, City Type (33 05 84 00-0088)		
33 05 84 00-0090 EA 18" Square, Gray Iron, Manhole Cover With Frame	817.04	72.61
<i>For Ductile Iron Castings, Add</i>		
	418.25	
33 05 84 00-0091 EA 18" Diameter, Gray Iron, Manhole Cover With Frame	509.57	72.61
<i>For Ductile Iron Castings, Add</i>		
	203.02	
33 05 84 00-0092 EA 24" Diameter, Gray Iron, Manhole Cover With Frame	588.66	84.44
<i>For Ductile Iron Castings, Add</i>		
	234.73	
33 05 84 00-0093 EA 24" Square, Gray Iron, Manhole Cover With Frame	864.11	93.73
<i>For Ductile Iron Castings, Add</i>		
	407.85	
33 05 84 00-0094 EA 26" Diameter, Gray Iron, Manhole Cover With Frame	767.41	101.33
<i>For Ductile Iron Castings, Add</i>		
	323.55	
33 05 84 00-0095 EA 30" Diameter, Gray Iron, Manhole Cover With Frame	799.69	105.55
<i>For Ductile Iron Castings, Add</i>		
	338.14	
33 05 84 00-0096 EA 24" Diameter REXUF D400, Ductile Iron Manhole Cover And Frame, County Standard.....	815.19	93.73
<i>For Ductile Iron Castings, Add</i>		
	373.60	
33 05 84 00-0097 Watertight Type Manhole Covers And Frames (33 05 84 00-0088)		
33 05 84 00-0098 EA 20" Diameter, Gray Iron, Watertight Manhole Cover With Frame	898.42	59.95
<i>For Ductile Iron Castings, Add</i>		
	461.85	
33 05 84 00-0099 EA 22" Diameter, Gray Iron, Watertight Manhole Cover With Frame	920.24	59.95
<i>For Ductile Iron Castings, Add</i>		
	463.37	
33 05 84 00-0100 EA 24" Diameter, Gray Iron, Watertight Manhole Cover With Frame	947.79	70.09
<i>For Ductile Iron Castings, Add</i>		
	466.42	
33 05 84 00-0101 EA 26" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,113.21	78.53
<i>For Ductile Iron Castings, Add</i>		
	565.61	
33 05 84 00-0102 EA 30" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,270.52	80.21
<i>For Ductile Iron Castings, Add</i>		
	667.72	
33 05 84 00-0103 EA 32" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,330.80	81.90
<i>For Ductile Iron Castings, Add</i>		
	707.01	
33 05 84 00-0104 EA 36" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,385.13	84.44
<i>For Ductile Iron Castings, Add</i>		
	742.03	
33 05 84 00-0105 Aluminum Manhole Covers And Frames (33 05 84 00-0088)		
33 05 84 00-0106 EA 12" Square Aluminum Manhole Cover With Frame	641.39	25.19
33 05 84 00-0107 EA 18" Square Aluminum Manhole Cover With Frame	1,152.57	27.89
33 05 84 00-0108 EA 24" Square Aluminum Manhole Cover With Frame	1,643.57	32.38
33 05 84 00-0109 Remove And Reinstall Manhole Cover And Frame (33 05 84 00-0088)		
Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.		
33 05 84 00-0110 EA Removal And Reinstallation Of Manhole Cover And Frame	338.55	
33 05 84 00-0111 Rainguard Inflow Protectors (33 05 84 00-0088)		
33 05 84 00-0112 EA 18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	97.92	17.88
33 05 84 00-0113 EA 22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	110.87	17.88
33 05 84 00-0114 EA 24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	132.63	21.45
33 05 84 00-0115 EA 26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	140.81	21.45
33 05 84 00-0116 EA 30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	173.36	25.03
33 05 84 00-0117 EA 32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	183.41	25.03
33 05 84 00-0118 Adjust Frame And Cover To Grade (Monterey County) (33 05 84 00-0088)		
33 05 84 00-0119 EA Adjust Frame And Cover To Grade (Monterey County).....	551.72	

33 Utilities**33 05 Common Work Results For Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0120 Waste Water Collection System Taps <small>(33 05 84)</small>		
Note: For tapping existing structures only. Includes grout.		
33 05 84 00-0121 Brick Manhole Taps <small>(33 05 84 00-0120)</small>		
33 05 84 00-0122 EA 4" Tap In 6" Brick Manhole.....	433.98	
33 05 84 00-0123 EA 6" Tap In 6" Brick Manhole.....	483.35	
33 05 84 00-0124 EA 8" Tap In 6" Brick Manhole.....	531.85	
33 05 84 00-0125 EA 10" Tap In 6" Brick Manhole.....	580.26	
33 05 84 00-0126 EA 12" Tap In 6" Brick Manhole.....	642.80	
33 05 84 00-0127 EA 15" Tap In 6" Brick Manhole.....	691.10	
33 05 84 00-0128 Precast Concrete Manhole Tap <small>(33 05 84 00-0120)</small>		
33 05 84 00-0129 EA 4" Tap In Existing Precast Concrete Manhole.....	609.66	
33 05 84 00-0130 EA 6" Tap In Existing Precast Concrete Manhole.....	683.73	
33 05 84 00-0131 EA 8" Tap In Existing Precast Concrete Manhole.....	763.37	
33 05 84 00-0132 EA 10" Tap In Existing Precast Concrete Manhole.....	835.97	
33 05 84 00-0133 EA 12" Tap In Existing Precast Concrete Manhole.....	908.44	
33 05 84 00-0134 EA 15" Tap In Existing Precast Concrete Manhole.....	982.65	
33 05 84 00-0135 EA 18" Tap In Existing Precast Concrete Manhole.....	1,126.43	
33 05 84 00-0136 EA 24" Tap In Existing Precast Concrete Manhole.....	1,444.95	
33 05 97 Identification and Signage for Utilities <small>(33 05)</small>		
33 05 97 16 Markers for Utility Identification <small>(33 05 97)</small>		
33 05 97 16-0001 Reflective Sheeting Delineators <small>(33 05 97 16)</small>		
33 05 97 16-0002 EA Delineator, Single Unit One Way On Post, 3" Diameter or 3" x 3" Square.....	36.40	
33 05 97 16-0003 EA Delineator, Single Unit Back To Back On Post, 3" Diameter or 3" x 3" Square.....	38.41	
33 05 97 16-0004 EA Delineator, Single Unit Two Way On Post, 3" Diameter or 3" x 3" Square.....	42.43	
33 05 97 16-0005 EA Delineator, Single Unit Three Way On Post, 3" Diameter or 3" x 3" Square.....	44.43	
33 05 97 16-0006 EA Delineator, Single Unit Four Way On Post, 3" Diameter or 3" x 3" Square.....	46.44	
33 05 97 16-0007 EA Delineator, Double Unit On Post, 3" Diameter or 3" x 3" Square.....	40.92	
33 05 97 16-0008 EA Delineator, Single Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	36.90	
33 05 97 16-0009 EA Delineator, Double Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	38.91	
33 05 97 16-0010 EA Delineator, Single Unit, Back To Back, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	38.91	
33 05 97 16-0011 EA Delineator, Single Unit, Two Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	40.92	
33 05 97 16-0012 EA Delineator, Single Unit, Three Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	42.93	
33 05 97 16-0013 EA Delineator, Single Unit, Four Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	44.94	
33 05 97 16-0014 EA Delineator, White, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	63.01	
33 05 97 16-0015 EA Delineator, Single Unit Three Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	44.43	
33 05 97 16-0016 EA Delineator, White, Double Unit On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	65.52	
33 05 97 16-0017 EA Delineator, Yellow, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	63.01	
33 05 97 16-0018 EA Delineator, Yellow, Single Unit, Back To Back On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	65.02	
33 05 97 16-0019 EA Delineator, Yellow, Double Unit, On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	65.52	
33 05 97 16-0020 EA Relocate Delineator.....	48.06	
33 05 97 16-0021 Reference Markers <small>(33 05 97 16)</small>		
33 05 97 16-0022 EA Reference Marker, 4' Mounting Height.....	55.48	
33 05 97 16-0023 EA Reference Marker, 7' Mounting Height.....	65.43	
33 05 97 16-0024 EA Reference Marker, Band Or Bracket Mounted.....	62.53	
33 05 97 16-0025 EA Reference Marker, Furnish Panel Only.....	42.69	
33 05 97 16-0026 EA Relocate Reference Marker.....	48.06	
33 05 97 16-0027 Object Markers <small>(33 05 97 16)</small>		
33 05 97 16-0028 EA Object Marker, Type L-1.....	61.68	
33 05 97 16-0029 EA Object Marker, Type L-2.....	57.54	
33 05 97 16-0030 EA Object Marker, Type K-1.....	65.00	
33 05 97 16-0031 EA Object Marker, Type K-2.....	60.86	
33 05 97 16-0032 EA Object Marker, Type Q.....	44.28	

33 10 Water Utilities (33)**33 11 Groundwater Sources** (33 10)**33 11 13 Potable Water Supply Wells** (33 11)**33 11 13 00-0001 Drill And Test Water Well** (33 11 13)



Utilities	33	CS
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0002 Drill Hole <small>(33 11 13 00-0001)</small>		
Note: Excludes loading and hauling of spoils.		
33 11 13 00-0003 Mobilization And Demobilization <small>(33 11 13 00-0002)</small>		
33 11 13 00-0004 EA Up To 12" Diameter, Well Drilling Mobilization And Demobilization.....	793.66	
33 11 13 00-0005 EA >12" To 24" Diameter, Well Drilling Mobilization And Demobilization.....	975.58	
33 11 13 00-0006 EA >24" To 36" Diameter, Well Drilling Mobilization And Demobilization.....	1,463.38	
33 11 13 00-0007 Drill Hole In Normal Soil, Sand, Gravel, O.B. <small>(33 11 13 00-0002)</small>		
Note: Excludes well casing, gravel or materials.		
33 11 13 00-0008 LF 6" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	18.90	
For >100 To 250, Add	0.47	
For >250 To 400, Add	0.95	
For >400 To 600, Add	1.42	
For >600 To 750, Add	1.89	
For >750, Add	2.36	
33 11 13 00-0009 LF 8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	22.44	
For >100 To 250, Add	0.56	
For >250 To 400, Add	1.12	
For >400 To 600, Add	1.68	
For >600 To 750, Add	2.24	
For >750, Add	2.81	
33 11 13 00-0010 LF 10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	30.00	
For >100 To 250, Add	0.75	
For >250 To 400, Add	1.50	
For >400 To 600, Add	2.25	
For >600 To 750, Add	3.00	
For >750, Add	3.75	
33 11 13 00-0011 LF 12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	46.95	
For >100 To 250, Add	1.17	
For >250 To 400, Add	2.35	
For >400 To 600, Add	3.52	
For >600 To 750, Add	4.70	
For >750, Add	5.87	
33 11 13 00-0012 LF 14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	67.56	
For >100 To 250, Add	1.69	
For >250 To 400, Add	3.38	
For >400 To 600, Add	5.07	
For >600 To 750, Add	6.76	
For >750, Add	8.45	
33 11 13 00-0013 LF 16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	88.29	
For >100 To 250, Add	2.21	
For >250 To 400, Add	4.41	
For >400 To 600, Add	6.62	
For >600 To 750, Add	8.83	
For >750, Add	11.04	
33 11 13 00-0014 LF 18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	104.87	
For >100 To 250, Add	2.62	
For >250 To 400, Add	5.24	
For >400 To 600, Add	7.87	
For >600 To 750, Add	10.49	
For >750, Add	13.11	
33 11 13 00-0015 LF 20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	121.95	
For >100 To 250, Add	3.05	
For >250 To 400, Add	6.10	
For >400 To 600, Add	9.15	
For >600 To 750, Add	12.20	
For >750, Add	15.24	
33 11 13 00-0016 LF 22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	143.28	
For >100 To 250, Add	3.58	
For >250 To 400, Add	7.16	
For >400 To 600, Add	10.75	
For >600 To 750, Add	14.33	
For >750, Add	17.91	
33 11 13 00-0017 LF 24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	168.89	
For >100 To 250, Add	4.22	
For >250 To 400, Add	8.44	
For >400 To 600, Add	12.67	
For >600 To 750, Add	16.89	
For >750, Add	21.11	
33 11 13 00-0018 LF 26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	182.55	
For >100 To 250, Add	4.56	
For >250 To 400, Add	9.13	
For >400 To 600, Add	13.69	
For >600 To 750, Add	18.26	
For >750, Add	22.82	
33 11 13 00-0019 LF 28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	200.85	
For >100 To 250, Add	5.02	
For >250 To 400, Add	10.04	
For >400 To 600, Add	15.06	
For >600 To 750, Add	20.09	
For >750, Add	25.11	

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0020 LF 30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	220.00	
For >100 To 250, Add	5.50	
For >250 To 400, Add	11.00	
For >400 To 600, Add	16.50	
For >600 To 750, Add	22.00	
For >750, Add	27.50	
33 11 13 00-0021 LF 36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	273.65	
For >100 To 250, Add	6.84	
For >250 To 400, Add	13.68	
For >400 To 600, Add	20.52	
For >600 To 750, Add	27.37	
For >750, Add	34.21	
33 11 13 00-0022 Drill Hole In Sedimentary Rock <small>(33 11 13 00-0002)</small>		
33 11 13 00-0023 LF 6" Water Well Hole Drilled In Sedimentary Rock	38.54	
For >100 To 250, Add	0.96	
For >250 To 400, Add	1.93	
For >400 To 600, Add	2.89	
For >600 To 750, Add	3.85	
For >750, Add	4.82	
33 11 13 00-0024 LF 8" Water Well Hole Drilled In Sedimentary Rock	44.87	
For >100 To 250, Add	1.12	
For >250 To 400, Add	2.24	
For >400 To 600, Add	3.37	
For >600 To 750, Add	4.49	
For >750, Add	5.61	
33 11 13 00-0025 LF 10" Water Well Hole Drilled In Sedimentary Rock	71.85	
For >100 To 250, Add	1.80	
For >250 To 400, Add	3.59	
For >400 To 600, Add	5.39	
For >600 To 750, Add	7.19	
For >750, Add	8.98	
33 11 13 00-0026 LF 12" Water Well Hole Drilled In Sedimentary Rock	93.94	
For >100 To 250, Add	2.35	
For >250 To 400, Add	4.70	
For >400 To 600, Add	7.05	
For >600 To 750, Add	9.39	
For >750, Add	11.74	
33 11 13 00-0027 LF 14" Water Well Hole Drilled In Sedimentary Rock	135.22	
For >100 To 250, Add	3.38	
For >250 To 400, Add	6.76	
For >400 To 600, Add	10.14	
For >600 To 750, Add	13.52	
For >750, Add	16.90	
33 11 13 00-0028 LF 16" Water Well Hole Drilled In Sedimentary Rock	176.49	
For >100 To 250, Add	4.41	
For >250 To 400, Add	8.82	
For >400 To 600, Add	13.24	
For >600 To 750, Add	17.65	
For >750, Add	22.06	
33 11 13 00-0029 LF 18" Water Well Hole Drilled In Sedimentary Rock	209.85	
For >100 To 250, Add	5.25	
For >250 To 400, Add	10.49	
For >400 To 600, Add	15.74	
For >600 To 750, Add	20.99	
For >750, Add	26.23	
33 11 13 00-0030 LF 20" Water Well Hole Drilled In Sedimentary Rock	243.51	
For >100 To 250, Add	6.09	
For >250 To 400, Add	12.18	
For >400 To 600, Add	18.26	
For >600 To 750, Add	24.35	
For >750, Add	30.44	
33 11 13 00-0031 LF 22" Water Well Hole Drilled In Sedimentary Rock	286.82	
For >100 To 250, Add	7.17	
For >250 To 400, Add	14.34	
For >400 To 600, Add	21.51	
For >600 To 750, Add	28.68	
For >750, Add	35.85	
33 11 13 00-0032 LF 24" Water Well Hole Drilled In Sedimentary Rock	331.31	
For >100 To 250, Add	8.28	
For >250 To 400, Add	16.57	
For >400 To 600, Add	24.85	
For >600 To 750, Add	33.13	
For >750, Add	41.41	
33 11 13 00-0033 LF 26" Water Well Hole Drilled In Sedimentary Rock	365.11	
For >100 To 250, Add	9.13	
For >250 To 400, Add	18.26	
For >400 To 600, Add	27.38	
For >600 To 750, Add	36.51	
For >750, Add	45.64	



Utilities	33	CS
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0034 LF 28" Water Well Hole Drilled In Sedimentary Rock	401.70	
For >100 To 250, Add	10.04	
For >250 To 400, Add	20.09	
For >400 To 600, Add	30.13	
For >600 To 750, Add	40.17	
For >750, Add	50.21	
33 11 13 00-0035 LF 30" Water Well Hole Drilled In Sedimentary Rock	439.99	
For >100 To 250, Add	11.00	
For >250 To 400, Add	22.00	
For >400 To 600, Add	33.00	
For >600 To 750, Add	44.00	
For >750, Add	55.00	
33 11 13 00-0036 LF 36" Water Well Hole Drilled In Sedimentary Rock	547.30	
For >100 To 250, Add	13.68	
For >250 To 400, Add	27.37	
For >400 To 600, Add	41.05	
For >600 To 750, Add	54.73	
For >750, Add	68.41	
33 11 13 00-0037 Drill Hole In Crystalline Rock (33 11 13 00-0002)		
33 11 13 00-0038 LF 6" Water Well Hole Drilled In Crystalline Rock.....	79.26	
For >100 To 250, Add	1.98	
For >250 To 400, Add	3.96	
For >400 To 600, Add	5.94	
For >600 To 750, Add	7.93	
For >750, Add	9.91	
33 11 13 00-0039 LF 8" Water Well Hole Drilled In Crystalline Rock.....	91.46	
For >100 To 250, Add	2.29	
For >250 To 400, Add	4.57	
For >400 To 600, Add	6.86	
For >600 To 750, Add	9.15	
For >750, Add	11.43	
33 11 13 00-0040 LF 10" Water Well Hole Drilled In Crystalline Rock.....	104.87	
For >100 To 250, Add	2.62	
For >250 To 400, Add	5.24	
For >400 To 600, Add	7.87	
For >600 To 750, Add	10.49	
For >750, Add	13.11	
33 11 13 00-0041 LF 12" Water Well Hole Drilled In Crystalline Rock.....	132.92	
For >100 To 250, Add	3.32	
For >250 To 400, Add	6.65	
For >400 To 600, Add	9.97	
For >600 To 750, Add	13.29	
For >750, Add	16.62	
33 11 13 00-0042 LF 14" Water Well Hole Drilled In Crystalline Rock.....	171.95	
For >100 To 250, Add	4.30	
For >250 To 400, Add	8.60	
For >400 To 600, Add	12.90	
For >600 To 750, Add	17.20	
For >750, Add	21.49	
33 11 13 00-0043 LF 16" Water Well Hole Drilled In Crystalline Rock.....	250.00	
For >100 To 250, Add	6.25	
For >250 To 400, Add	12.50	
For >400 To 600, Add	18.75	
For >600 To 750, Add	25.00	
For >750, Add	31.25	
33 11 13 00-0044 LF 18" Water Well Hole Drilled In Crystalline Rock.....	297.55	
For >100 To 250, Add	7.44	
For >250 To 400, Add	14.88	
For >400 To 600, Add	22.32	
For >600 To 750, Add	29.76	
For >750, Add	37.19	
33 11 13 00-0045 LF 20" Water Well Hole Drilled In Crystalline Rock.....	345.11	
For >100 To 250, Add	8.63	
For >250 To 400, Add	17.26	
For >400 To 600, Add	25.88	
For >600 To 750, Add	34.51	
For >750, Add	43.14	
33 11 13 00-0046 LF 22" Water Well Hole Drilled In Crystalline Rock.....	406.09	
For >100 To 250, Add	10.15	
For >250 To 400, Add	20.30	
For >400 To 600, Add	30.46	
For >600 To 750, Add	40.61	
For >750, Add	50.76	
33 11 13 00-0047 LF 24" Water Well Hole Drilled In Crystalline Rock.....	469.51	
For >100 To 250, Add	11.74	
For >250 To 400, Add	23.48	
For >400 To 600, Add	35.21	
For >600 To 750, Add	46.95	
For >750, Add	58.69	

33 11 13 00-0048 Furnish And Install Casing (33 11 13 00-0001)
 Note: Excludes drilling of hole.

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0049 Steel Well Casing <small>(33 11 13 00-0048)</small>		
33 11 13 00-0050 LF 6" Diameter, Steel Well Casing, Flush.....	27.92	
For >100 To 250, Deduct	-0.87	
For >250 To 400, Deduct	-1.57	
For >400 To 600, Deduct	-2.36	
For >600 To 750, Deduct	-3.14	
For >750, Deduct	-4.16	
33 11 13 00-0051 LF 8" Diameter, Steel Well Casing, Flush.....	34.73	
For >100 To 250, Deduct	-1.09	
For >250 To 400, Deduct	-1.96	
For >400 To 600, Deduct	-2.93	
For >600 To 750, Deduct	-3.91	
For >750, Deduct	-5.17	
33 11 13 00-0052 LF 10" Diameter, Steel Well Casing, Flush.....	50.81	
For >100 To 250, Deduct	-1.53	
For >250 To 400, Deduct	-2.80	
For >400 To 600, Deduct	-4.20	
For >600 To 750, Deduct	-5.61	
For >750, Deduct	-7.35	
33 11 13 00-0053 LF 12" Diameter, Steel Well Casing, Flush.....	84.03	
For >100 To 250, Deduct	-2.42	
For >250 To 400, Deduct	-4.52	
For >400 To 600, Deduct	-6.78	
For >600 To 750, Deduct	-9.03	
For >750, Deduct	-11.70	
33 11 13 00-0054 LF 14" Diameter, Steel Well Casing, Flush.....	95.07	
For >100 To 250, Deduct	-2.82	
For >250 To 400, Deduct	-5.19	
For >400 To 600, Deduct	-7.79	
For >600 To 750, Deduct	-10.38	
For >750, Deduct	-13.55	
33 11 13 00-0055 LF 16" Diameter, Steel Well Casing, Flush.....	111.90	
For >100 To 250, Deduct	-3.34	
For >250 To 400, Deduct	-6.14	
For >400 To 600, Deduct	-9.21	
For >600 To 750, Deduct	-12.28	
For >750, Deduct	-16.05	
33 11 13 00-0056 LF 18" Diameter, Steel Well Casing, Flush.....	128.30	
For >100 To 250, Deduct	-3.89	
For >250 To 400, Deduct	-7.10	
For >400 To 600, Deduct	-10.65	
For >600 To 750, Deduct	-14.20	
For >750, Deduct	-18.63	
33 11 13 00-0057 LF 20" Diameter, Steel Well Casing, Flush.....	146.88	
For >100 To 250, Deduct	-4.51	
For >250 To 400, Deduct	-8.19	
For >400 To 600, Deduct	-12.28	
For >600 To 750, Deduct	-16.37	
For >750, Deduct	-21.56	
33 11 13 00-0058 LF 24" Diameter, Steel Well Casing, Flush.....	171.31	
For >100 To 250, Deduct	-5.23	
For >250 To 400, Deduct	-9.51	
For >400 To 600, Deduct	-14.27	
For >600 To 750, Deduct	-19.02	
For >750, Deduct	-25.01	
33 11 13 00-0059 LB Steel Well Casing, Furnish And Install.....	0.98	
For >100 To 250, Deduct	-0.04	
For >250 To 400, Deduct	-0.06	
For >400 To 600, Deduct	-0.09	
For >600 To 750, Deduct	-0.12	
For >750, Deduct	-0.17	
33 11 13 00-0060 Stainless Steel Well Casing, Flush Threaded <small>(33 11 13 00-0048)</small>		
33 11 13 00-0061 LF 6" Diameter, Stainless Steel Well Casing, Flush.....	64.44	
For >100 To 250, Deduct	-1.79	
For >250 To 400, Deduct	-3.40	
For >400 To 600, Deduct	-5.10	
For >600 To 750, Deduct	-6.79	
For >750, Deduct	-8.72	
33 11 13 00-0062 LF 8" Diameter, Stainless Steel Well Casing, Flush.....	96.70	
For >100 To 250, Deduct	-2.64	
For >250 To 400, Deduct	-5.05	
For >400 To 600, Deduct	-7.58	
For >600 To 750, Deduct	-10.11	
For >750, Deduct	-12.92	
33 11 13 00-0063 LF 10" Diameter, Stainless Steel Well Casing, Flush.....	135.05	
For >100 To 250, Deduct	-3.66	
For >250 To 400, Deduct	-7.03	
For >400 To 600, Deduct	-10.55	
For >600 To 750, Deduct	-14.07	
For >750, Deduct	-17.95	



Utilities	33	CS
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0064 LF 12" Diameter, Stainless Steel Well Casing, Flush	157.07	
<i>For >100 To 250, Deduct</i>	-4.26	
<i>For >250 To 400, Deduct</i>	-8.19	
<i>For >400 To 600, Deduct</i>	-12.28	
<i>For >600 To 750, Deduct</i>	-16.37	
<i>For >750, Deduct</i>	-20.90	
33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring <small>(33 11 13 00-0048)</small>		
33 11 13 00-0066 LF 10" Diameter, Stainless Steel Well Casing, Welded	143.46	
<i>For >100 To 250, Deduct</i>	-4.08	
<i>For >250 To 400, Deduct</i>	-7.66	
<i>For >400 To 600, Deduct</i>	-11.50	
<i>For >600 To 750, Deduct</i>	-15.33	
<i>For >750, Deduct</i>	-19.80	
33 11 13 00-0067 LF 12" Diameter, Stainless Steel Well Casing, Welded	166.18	
<i>For >100 To 250, Deduct</i>	-4.72	
<i>For >250 To 400, Deduct</i>	-8.87	
<i>For >400 To 600, Deduct</i>	-13.30	
<i>For >600 To 750, Deduct</i>	-17.74	
<i>For >750, Deduct</i>	-22.90	
33 11 13 00-0068 LF 14" Diameter, Stainless Steel Well Casing, Welded	199.64	
<i>For >100 To 250, Deduct</i>	-5.62	
<i>For >250 To 400, Deduct</i>	-10.61	
<i>For >400 To 600, Deduct</i>	-15.92	
<i>For >600 To 750, Deduct</i>	-21.23	
<i>For >750, Deduct</i>	-27.35	
33 11 13 00-0069 LF 16" Diameter, Stainless Steel Well Casing, Welded	228.58	
<i>For >100 To 250, Deduct</i>	-6.43	
<i>For >250 To 400, Deduct</i>	-12.15	
<i>For >400 To 600, Deduct</i>	-18.22	
<i>For >600 To 750, Deduct</i>	-24.30	
<i>For >750, Deduct</i>	-31.30	
33 11 13 00-0070 LF 18" Diameter, Stainless Steel Well Casing, Welded	252.46	
<i>For >100 To 250, Deduct</i>	-7.14	
<i>For >250 To 400, Deduct</i>	-13.45	
<i>For >400 To 600, Deduct</i>	-20.17	
<i>For >600 To 750, Deduct</i>	-26.89	
<i>For >750, Deduct</i>	-34.69	
33 11 13 00-0071 LF 20" Diameter, Stainless Steel Well Casing, Welded	330.65	
<i>For >100 To 250, Deduct</i>	-9.25	
<i>For >250 To 400, Deduct</i>	-17.51	
<i>For >400 To 600, Deduct</i>	-26.27	
<i>For >600 To 750, Deduct</i>	-35.03	
<i>For >750, Deduct</i>	-45.06	
33 11 13 00-0072 LF 24" Diameter, Stainless Steel Well Casing, Welded	435.53	
<i>For >100 To 250, Deduct</i>	-12.12	
<i>For >250 To 400, Deduct</i>	-23.00	
<i>For >400 To 600, Deduct</i>	-34.51	
<i>For >600 To 750, Deduct</i>	-46.01	
<i>For >750, Deduct</i>	-59.10	
33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80 <small>(33 11 13 00-0048)</small>		
33 11 13 00-0074 LF 6" Polyvinyl Chloride (PVC) Well Casing	36.63	
<i>For >100 To 250, Deduct</i>	-1.06	
<i>For >250 To 400, Deduct</i>	-1.97	
<i>For >400 To 600, Deduct</i>	-2.96	
<i>For >600 To 750, Deduct</i>	-3.94	
<i>For >750, Deduct</i>	-5.11	
33 11 13 00-0075 LF 8" Polyvinyl Chloride (PVC) Well Casing	58.17	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 400, Deduct</i>	-3.13	
<i>For >400 To 600, Deduct</i>	-4.69	
<i>For >600 To 750, Deduct</i>	-6.26	
<i>For >750, Deduct</i>	-8.10	
33 11 13 00-0076 LF 10" Polyvinyl Chloride (PVC) Well Casing	87.91	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 400, Deduct</i>	-4.73	
<i>For >400 To 600, Deduct</i>	-7.09	
<i>For >600 To 750, Deduct</i>	-9.46	
<i>For >750, Deduct</i>	-12.25	
33 11 13 00-0077 LF 12" Polyvinyl Chloride (PVC) Well Casing	103.72	
<i>For >100 To 250, Deduct</i>	-3.00	
<i>For >250 To 400, Deduct</i>	-5.59	
<i>For >400 To 600, Deduct</i>	-8.38	
<i>For >600 To 750, Deduct</i>	-11.18	
<i>For >750, Deduct</i>	-14.50	
33 11 13 00-0078 Furnish And Install Well Screen Assembly <small>(33 11 13 00-0001)</small>		
33 11 13 00-0079 Stainless Steel Well Screen <small>(33 11 13 00-0078)</small>		

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0080 LF 2" Stainless Steel Well Screen.....	20.19	1.40
For >100 To 250, Deduct	-0.68	
For >250 To 400, Deduct	-1.19	
For >400 To 600, Deduct	-1.78	
For >600 To 750, Deduct	-2.38	
For >750, Deduct	-3.21	
33 11 13 00-0081 LF 3" Stainless Steel Well Screen.....	31.95	1.40
For >100 To 250, Deduct	-0.99	
For >250 To 400, Deduct	-1.79	
For >400 To 600, Deduct	-2.69	
For >600 To 750, Deduct	-3.58	
For >750, Deduct	-4.73	
33 11 13 00-0082 LF 4" Stainless Steel Well Screen.....	40.14	2.11
For >100 To 250, Deduct	-1.25	
For >250 To 400, Deduct	-2.25	
For >400 To 600, Deduct	-3.38	
For >600 To 750, Deduct	-4.50	
For >750, Deduct	-5.95	
33 11 13 00-0083 LF 5" Stainless Steel Well Screen.....	50.74	2.11
For >100 To 250, Deduct	-1.56	
For >250 To 400, Deduct	-2.83	
For >400 To 600, Deduct	-4.24	
For >600 To 750, Deduct	-5.66	
For >750, Deduct	-7.45	
33 11 13 00-0084 LF 6" Stainless Steel Well Screen.....	60.89	2.81
For >100 To 250, Deduct	-1.91	
For >250 To 400, Deduct	-3.43	
For >400 To 600, Deduct	-5.15	
For >600 To 750, Deduct	-6.87	
For >750, Deduct	-9.09	
33 11 13 00-0085 LF 8" Stainless Steel Well Screen.....	79.47	3.50
For >100 To 250, Deduct	-2.49	
For >250 To 400, Deduct	-4.47	
For >400 To 600, Deduct	-6.71	
For >600 To 750, Deduct	-8.94	
For >750, Deduct	-11.83	
33 11 13 00-0086 LF 10" Stainless Steel Well Screen.....	100.87	5.61
For >100 To 250, Deduct	-3.19	
For >250 To 400, Deduct	-5.72	
For >400 To 600, Deduct	-8.57	
For >600 To 750, Deduct	-11.43	
For >750, Deduct	-15.16	
33 11 13 00-0087 LF 12" Stainless Steel Well Screen.....	118.34	7.01
For >100 To 250, Deduct	-3.74	
For >250 To 400, Deduct	-6.70	
For >400 To 600, Deduct	-10.05	
For >600 To 750, Deduct	-13.40	
For >750, Deduct	-17.78	
33 11 13 00-0088 LF 14" Stainless Steel Well Screen.....	129.96	7.72
For >100 To 250, Deduct	-4.15	
For >250 To 400, Deduct	-7.40	
For >400 To 600, Deduct	-11.10	
For >600 To 750, Deduct	-14.80	
For >750, Deduct	-19.68	
33 11 13 00-0089 LF 16" Stainless Steel Well Screen.....	140.69	9.11
For >100 To 250, Deduct	-4.53	
For >250 To 400, Deduct	-8.05	
For >400 To 600, Deduct	-12.08	
For >600 To 750, Deduct	-16.10	
For >750, Deduct	-21.45	
33 11 13 00-0090 LF 18" Stainless Steel Well Screen.....	168.90	10.51
For >100 To 250, Deduct	-5.47	
For >250 To 400, Deduct	-9.70	
For >400 To 600, Deduct	-14.55	
For >600 To 750, Deduct	-19.39	
For >750, Deduct	-25.87	
33 11 13 00-0091 LF 20" Stainless Steel Well Screen.....	213.03	13.32
For >100 To 250, Deduct	-6.90	
For >250 To 400, Deduct	-12.22	
For >400 To 600, Deduct	-18.34	
For >600 To 750, Deduct	-24.45	
For >750, Deduct	-32.61	
33 11 13 00-0092 LF 24" Stainless Steel Well Screen.....	276.36	17.53
For >100 To 250, Deduct	-8.97	
For >250 To 400, Deduct	-15.88	
For >400 To 600, Deduct	-23.82	
For >600 To 750, Deduct	-31.76	
For >750, Deduct	-42.38	
33 11 13 00-0093 LF 26" Stainless Steel Well Screen.....	318.65	20.34
For >100 To 250, Deduct	-10.30	
For >250 To 400, Deduct	-18.27	
For >400 To 600, Deduct	-27.40	
For >600 To 750, Deduct	-36.54	
For >750, Deduct	-48.71	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0094 Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40 <small>(33 11 13 00-0078)</small>					
33 11 13 00-0095	LF		1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	11.25	
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 400, Deduct</i>	-0.69	
			<i>For >400 To 600, Deduct</i>	-1.03	
			<i>For >600 To 750, Deduct</i>	-1.38	
			<i>For >750, Deduct</i>	-1.89	
			<i>For Schedule 80, Add</i>	2.47	
33 11 13 00-0096	LF		1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	12.83	
			<i>For >100 To 250, Deduct</i>	-0.46	
			<i>For >250 To 400, Deduct</i>	-0.78	
			<i>For >400 To 600, Deduct</i>	-1.17	
			<i>For >600 To 750, Deduct</i>	-1.55	
			<i>For >750, Deduct</i>	-2.12	
			<i>For Schedule 80, Add</i>	2.96	
33 11 13 00-0097	LF		2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	18.33	
			<i>For >100 To 250, Deduct</i>	-0.70	
			<i>For >250 To 400, Deduct</i>	-1.16	
			<i>For >400 To 600, Deduct</i>	-1.74	
			<i>For >600 To 750, Deduct</i>	-2.32	
			<i>For >750, Deduct</i>	-3.21	
			<i>For Schedule 80, Add</i>	3.46	
33 11 13 00-0098	LF		3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	26.51	
			<i>For >100 To 250, Deduct</i>	-0.92	
			<i>For >250 To 400, Deduct</i>	-1.59	
			<i>For >400 To 600, Deduct</i>	-2.38	
			<i>For >600 To 750, Deduct</i>	-3.17	
			<i>For >750, Deduct</i>	-4.31	
			<i>For Schedule 80, Add</i>	6.42	
33 11 13 00-0099	LF		4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	33.35	
			<i>For >100 To 250, Deduct</i>	-1.16	
			<i>For >250 To 400, Deduct</i>	-2.00	
			<i>For >400 To 600, Deduct</i>	-3.00	
			<i>For >600 To 750, Deduct</i>	-4.00	
			<i>For >750, Deduct</i>	-5.43	
			<i>For Schedule 80, Add</i>	8.05	
33 11 13 00-0100	LF		5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	41.67	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 400, Deduct</i>	-2.48	
			<i>For >400 To 600, Deduct</i>	-3.72	
			<i>For >600 To 750, Deduct</i>	-4.95	
			<i>For >750, Deduct</i>	-6.71	
			<i>For Schedule 80, Add</i>	10.37	
33 11 13 00-0101	LF		6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	46.30	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 400, Deduct</i>	-2.84	
			<i>For >400 To 600, Deduct</i>	-4.26	
			<i>For >600 To 750, Deduct</i>	-5.68	
			<i>For >750, Deduct</i>	-7.78	
			<i>For Schedule 80, Add</i>	10.12	
33 11 13 00-0102	LF		8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	66.35	
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 400, Deduct</i>	-3.99	
			<i>For >400 To 600, Deduct</i>	-5.98	
			<i>For >600 To 750, Deduct</i>	-7.98	
			<i>For >750, Deduct</i>	-10.84	
			<i>For Schedule 80, Add</i>	15.80	
33 11 13 00-0103 Furnish And Install Gravel Pack Material <small>(33 11 13 00-0001)</small>					
Note: Quantity is based on 3" space between wall and the casing or well screen.					
33 11 13 00-0104 Artificial Gravel Pack <small>(33 11 13 00-0103)</small>					
Note: Excludes casing.					
33 11 13 00-0105	LF		Artificial Gravel Pack, 6" Casing, 2" Screen.....	9.97	
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 400, Deduct</i>	-0.70	
			<i>For >400 To 600, Deduct</i>	-1.05	
			<i>For >600 To 750, Deduct</i>	-1.40	
			<i>For >750, Deduct</i>	-2.01	
33 11 13 00-0106	LF		Artificial Gravel Pack, 8" Casing, 2" Screen.....	15.24	
			<i>For >100 To 250, Deduct</i>	-0.70	
			<i>For >250 To 400, Deduct</i>	-1.08	
			<i>For >400 To 600, Deduct</i>	-1.62	
			<i>For >600 To 750, Deduct</i>	-2.16	
			<i>For >750, Deduct</i>	-3.11	
33 11 13 00-0107	LF		Artificial Gravel Pack, 10" Casing, 2" Screen.....	22.11	
			<i>For >100 To 250, Deduct</i>	-1.02	
			<i>For >250 To 400, Deduct</i>	-1.58	
			<i>For >400 To 600, Deduct</i>	-2.36	
			<i>For >600 To 750, Deduct</i>	-3.15	
			<i>For >750, Deduct</i>	-4.55	

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0108 LF Artificial Gravel Pack, 12" Casing, 2" Screen.....	27.79	
For >100 To 250, Deduct	-1.28	
For >250 To 400, Deduct	-1.97	
For >400 To 600, Deduct	-2.96	
For >600 To 750, Deduct	-3.95	
For >750, Deduct	-5.69	
33 11 13 00-0109 LF Artificial Gravel Pack, 14" Casing, 2" Screen.....	33.64	
For >100 To 250, Deduct	-1.54	
For >250 To 400, Deduct	-2.38	
For >400 To 600, Deduct	-3.57	
For >600 To 750, Deduct	-4.76	
For >750, Deduct	-6.86	
33 11 13 00-0110 LF Artificial Gravel Pack, 16" Casing, 2" Screen.....	42.32	
For >100 To 250, Deduct	-1.92	
For >250 To 400, Deduct	-2.98	
For >400 To 600, Deduct	-4.47	
For >600 To 750, Deduct	-5.96	
For >750, Deduct	-8.56	
33 11 13 00-0111 LF Artificial Gravel Pack, 18" Casing, 2" Screen.....	48.13	
For >100 To 250, Deduct	-2.18	
For >250 To 400, Deduct	-3.38	
For >400 To 600, Deduct	-5.07	
For >600 To 750, Deduct	-6.76	
For >750, Deduct	-9.72	
33 11 13 00-0112 LF Artificial Gravel Pack, 20" Casing, 2" Screen.....	58.08	
For >100 To 250, Deduct	-2.64	
For >250 To 400, Deduct	-4.09	
For >400 To 600, Deduct	-6.14	
For >600 To 750, Deduct	-8.19	
For >750, Deduct	-11.78	
33 11 13 00-0113 LF Artificial Gravel Pack, 24" Casing, 2" Screen.....	66.27	
For >100 To 250, Deduct	-3.02	
For >250 To 400, Deduct	-4.68	
For >400 To 600, Deduct	-7.02	
For >600 To 750, Deduct	-9.36	
For >750, Deduct	-13.47	
33 11 13 00-0114 LF Artificial Gravel Pack, 26" Casing, 2" Screen.....	70.13	
For >100 To 250, Deduct	-3.18	
For >250 To 400, Deduct	-4.93	
For >400 To 600, Deduct	-7.40	
For >600 To 750, Deduct	-9.86	
For >750, Deduct	-14.18	
33 11 13 00-0115 LF Artificial Gravel Pack, 30" Casing, 2" Screen.....	85.15	
For >100 To 250, Deduct	-3.88	
For >250 To 400, Deduct	-6.01	
For >400 To 600, Deduct	-9.02	
For >600 To 750, Deduct	-12.02	
For >750, Deduct	-17.31	
33 11 13 00-0116 LF Artificial Gravel Pack, 36" Casing, 2" Screen.....	101.66	
For >100 To 250, Deduct	-4.68	
For >250 To 400, Deduct	-7.22	
For >400 To 600, Deduct	-10.83	
For >600 To 750, Deduct	-14.44	
For >750, Deduct	-20.83	
33 11 13 00-0117 Develop Well <small>(33 11 13 00-0001)</small>		
Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.		
33 11 13 00-0118 HR Develop Well.....	278.56	
33 11 13 00-0119 Pump Test <small>(33 11 13 00-0001)</small>		
Note: To determine water level and GPM flow rate.		
33 11 13 00-0120 HR Pump Test Well.....	250.41	
33 11 13 00-0121 Test Well <small>(33 11 13 00-0001)</small>		
33 11 13 00-0122 VLF 2-1/2" Diameter Test Well	78.68	
33 11 13 00-0123 Surface Seal, Concrete Filled <small>(33 11 13)</small>		
33 11 13 00-0124 SF Surface Seal Well, Concrete Filled	26.81	
33 11 13 00-0125 Other Water Well <small>(33 11 13)</small>		
33 11 13 00-0126 SF Patch Hole In Well Casing	72.34	
33 11 13 00-0127 SF 1/2" Pressure Grout Well	2.04	
33 11 13 00-0128 SF 1" Pressure Grout Well	3.36	
33 11 13 00-0129 CF Sediment Removal In Well Casing For Existing Well.....	4.38	
33 11 13 00-0130 Sterilization Of Well <small>(33 11 13)</small>		
33 11 13 00-0131 EA Well Sterilization, Chlorine.....	1,343.63	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0132 Submersible Well Pumps <small>(33 11 13)</small> Note: Includes pump end, motor and control box.		
33 11 13 00-0133 4" Submersible Well Pumps <small>(33 11 13 00-0132)</small>		
33 11 13 00-0134 Powder Coated Case And Cast Iron Ends <small>(33 11 13 00-0133)</small>		
33 11 13 00-0135 EA 1/2 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,204.86	386.71
33 11 13 00-0136 EA 3/4 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,375.88	428.62
33 11 13 00-0137 EA 1 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,526.80	476.26
33 11 13 00-0138 Stainless Steel Case And Ends <small>(33 11 13 00-0133)</small>		
33 11 13 00-0139 EA 1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,377.74	381.00
33 11 13 00-0140 EA 3/4 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,573.64	428.62
33 11 13 00-0141 EA 1 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,765.99	476.26
33 11 13 00-0142 EA 1-1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,031.75	523.88
33 11 13 00-0143 EA 2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,308.16	571.51
33 11 13 00-0144 EA 3 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,853.90	666.75
33 11 13 00-0145 EA 5 HP Submersible Well Pump, 4" Diameter Stainless Steel	3,621.05	762.01
33 11 13 00-0146 6" Submersible Well Pumps <small>(33 11 13 00-0132)</small>		
33 11 13 00-0147 EA 5 HP Submersible Well Pump, 6" Diameter Stainless Steel	3,434.88	952.51
33 11 13 00-0148 EA 7.5 HP Submersible Well Pump, 6" Diameter Stainless Steel	3,981.67	1,047.76
33 11 13 00-0149 EA 10 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,551.21	1,143.01
33 11 13 00-0150 EA 15 HP Submersible Well Pump, 6" Diameter Stainless Steel	5,781.20	1,333.52
33 14 Water Utility Transmission and Distribution <small>(33 10)</small>		
33 14 11 Water Utility Transmission Piping <small>(33 14)</small> See CSI section 33 14 13 00-0000 for water utility transmission piping.		
33 14 13 Public Water Utility Distribution Piping <small>(33 14)</small> Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 14 13 13 Ductile Iron Public Water Utility Distribution Piping <small>(33 14 13)</small>		
33 14 13 13-0001 Ductile Iron Piping <small>(33 14 13 13)</small>		
33 14 13 13-0002 Mechanical Joint Ductile Iron Piping <small>(33 14 13 13-0001)</small> Note: Cement lining and bituminous coating shall conform to ANSI A21.4. See CSI sections 33 14 13 13-0484 for bolts and gaskets.		
33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe <small>(33 14 13 13-0002)</small> Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-0004 LF 3", Class 51, Mechanical Joint Ductile Iron Pipe	28.56	10.30
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	9.09	
For Cement Mortar Lining (CML), Add	1.30	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	7.01	
For Fusion Bonded Epoxy Lining (206N), Add	2.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	0.97	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.43	
For Class 52, Add	2.92	
For Class 53, Add	7.54	
For Class 54, Add	10.73	
For Class 55, Add	12.38	
For Class 56, Add	14.00	
33 14 13 13-0005 LF 4", Class 50, Mechanical Joint Ductile Iron Pipe	30.87	10.96
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	9.98	
For Cement Mortar Lining (CML), Add	1.43	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	7.70	
For Fusion Bonded Epoxy Lining (206N), Add	2.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.07	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.54	
For Class 51, Add	1.44	
For Class 52, Add	3.20	
For Class 53, Add	8.26	
For Class 54, Add	11.76	
For Class 55, Add	13.57	
For Class 56, Add	15.34	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0006 LF 6", Class 50, Mechanical Joint Ductile Iron Pipe.....	32.88	11.50
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	10.84	
For Cement Mortar Lining (CML), Add	1.55	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	8.36	
For Fusion Bonded Epoxy Lining (206N), Add	2.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.16	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.64	
For Class 51, Add	1.55	
For Class 52, Add	3.46	
For Class 53, Add	8.95	
For Class 54, Add	12.73	
For Class 55, Add	14.69	
For Class 56, Add	16.61	
33 14 13 13-0007 LF 8", Class 50, Mechanical Joint Ductile Iron Pipe.....	37.92	11.96
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.86	
For Cement Mortar Lining (CML), Add	1.98	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	10.69	
For Fusion Bonded Epoxy Lining (206N), Add	3.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.49	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.90	
For Class 51, Add	1.94	
For Class 52, Add	4.32	
For Class 53, Add	11.29	
For Class 54, Add	16.08	
For Class 55, Add	18.53	
For Class 56, Add	20.93	
33 14 13 13-0008 LF 10", Class 50, Mechanical Joint Ductile Iron Pipe.....	51.60	17.06
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	15.45	
For Cement Mortar Lining (CML), Add	2.58	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	12.88	
For Fusion Bonded Epoxy Lining (206N), Add	4.64	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.93	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.58	
For Class 51, Add	2.55	
For Class 52, Add	5.67	
For Class 53, Add	14.77	
For Class 54, Add	21.03	
For Class 55, Add	24.24	
For Class 56, Add	27.39	
33 14 13 13-0009 LF 12", Class 50, Mechanical Joint Ductile Iron Pipe.....	61.60	18.95
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	16.45	
For Cement Mortar Lining (CML), Add	3.29	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.16	
For Fusion Bonded Epoxy Lining (206N), Add	5.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.47	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.08	
For Class 51, Add	3.20	
For Class 52, Add	7.13	
For Class 53, Add	18.70	
For Class 54, Add	26.64	
For Class 55, Add	30.69	
For Class 56, Add	34.67	
33 14 13 13-0010 LF 14", Class 50, Mechanical Joint Ductile Iron Pipe.....	73.09	21.28
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	17.95	
For Cement Mortar Lining (CML), Add	4.08	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.87	
For Fusion Bonded Epoxy Lining (206N), Add	7.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.06	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.65	
For Class 51, Add	3.92	
For Class 52, Add	8.77	
For Class 53, Add	23.07	
For Class 54, Add	32.88	
For Class 55, Add	37.85	
For Class 56, Add	42.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0011 LF 16", Class 50, Mechanical Joint Ductile Iron Pipe.....	82.65	24.38
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	18.75	
For Cement Mortar Lining (CML), Add	4.57	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	14.18	
For Fusion Bonded Epoxy Lining (206N), Add	8.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.43	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.13	
For Class 51, Add	4.41	
For Class 52, Add	9.84	
For Class 53, Add	25.89	
For Class 54, Add	36.89	
For Class 55, Add	42.48	
For Class 56, Add	47.97	
33 14 13 13-0012 LF 18", Class 50, Mechanical Joint Ductile Iron Pipe.....	101.72	28.42
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.05	
For Cement Mortar Lining (CML), Add	5.87	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	18.18	
For Fusion Bonded Epoxy Lining (206N), Add	10.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.40	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.09	
For Class 51, Add	5.60	
For Class 52, Add	12.52	
For Class 53, Add	33.05	
For Class 54, Add	47.10	
For Class 55, Add	54.22	
For Class 56, Add	61.21	
33 14 13 13-0013 LF 20", Class 50, Mechanical Joint Ductile Iron Pipe.....	116.27	34.11
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.54	
For Cement Mortar Lining (CML), Add	6.46	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	18.09	
For Fusion Bonded Epoxy Lining (206N), Add	11.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.84	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.81	
For Class 51, Add	6.22	
For Class 52, Add	13.89	
For Class 53, Add	36.55	
For Class 54, Add	52.09	
For Class 55, Add	59.97	
For Class 56, Add	67.72	
33 14 13 13-0014 LF 24", Class 50, Mechanical Joint Ductile Iron Pipe.....	151.29	42.64
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	26.87	
For Cement Mortar Lining (CML), Add	8.67	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	18.20	
For Fusion Bonded Epoxy Lining (206N), Add	15.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.50	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.56	
For Class 51, Add	8.29	
For Class 52, Add	18.53	
For Class 53, Add	48.87	
For Class 54, Add	69.66	
For Class 55, Add	80.19	
For Class 56, Add	90.53	
33 14 13 13-0015 LF 30", Class 50, Mechanical Joint Ductile Iron Pipe.....	191.16	45.92
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	37.89	
For Cement Mortar Lining (CML), Add	12.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	22.00	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.17	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.56	
For Class 51, Add	11.41	
For Class 52, Add	25.57	
For Class 53, Add	68.09	
For Class 54, Add	97.13	
For Class 55, Add	111.70	
For Class 56, Add	126.00	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0016 LF 36", Class 50, Mechanical Joint Ductile Iron Pipe.....	226.07	48.76
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	47.38	
For Cement Mortar Lining (CML), Add	15.29	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	27.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.46	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-11.30	
For Class 51, Add	14.11	
For Class 52, Add	31.65	
For Class 53, Add	84.66	
For Class 54, Add	120.81	
For Class 55, Add	138.85	
For Class 56, Add	156.58	
33 14 13 13-0017 LF 42", Class 50, Mechanical Joint Ductile Iron Pipe.....	274.43	51.60
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	61.04	
For Cement Mortar Lining (CML), Add	19.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.77	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-13.72	
For Class 51, Add	17.96	
For Class 52, Add	40.35	
For Class 53, Add	108.43	
For Class 54, Add	154.78	
For Class 55, Add	177.82	
For Class 56, Add	200.45	
33 14 13 13-0018 LF 48", Class 50, Mechanical Joint Ductile Iron Pipe.....	332.81	54.52
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	77.80	
For Cement Mortar Lining (CML), Add	25.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	45.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.82	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-16.64	
For Class 51, Add	22.68	
For Class 52, Add	51.01	
For Class 53, Add	137.56	
For Class 54, Add	196.44	
For Class 55, Add	225.59	
For Class 56, Add	254.22	
33 14 13 13-0019 Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0020 EA 3" Mechanical Joint Ductile Iron 90 Degree Elbow	90.14	32.53
For Cement Mortar Lining (CML), Add	4.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	7.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0021 EA 4" Mechanical Joint Ductile Iron 90 Degree Elbow	103.35	38.86
For Cement Mortar Lining (CML), Add	4.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	8.00	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0022 EA 6" Mechanical Joint Ductile Iron 90 Degree Elbow	159.68	57.44
For Cement Mortar Lining (CML), Add	7.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	13.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0023 EA 8" Mechanical Joint Ductile Iron 90 Degree Elbow	209.02	68.13
For Cement Mortar Lining (CML), Add	10.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	19.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0024 EA 10" Mechanical Joint Ductile Iron 90 Degree Elbow	282.79	75.64
For Cement Mortar Lining (CML), Add	16.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	30.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.62	
Note: ANSI/AWWA C151/A21.51		



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0025	EA 12" Mechanical Joint Ductile Iron 90 Degree Elbow	.....	360.87	88.72
	For Cement Mortar Lining (CML), Add		22.65	
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add		40.77	
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add		16.99	
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0026	EA 14" Mechanical Joint Ductile Iron 90 Degree Elbow	.....	529.83	99.49
	For Cement Mortar Lining (CML), Add		37.91	
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add		68.24	
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add		28.43	
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0027	EA 16" Mechanical Joint Ductile Iron 90 Degree Elbow	.....	687.17	113.71
	For Cement Mortar Lining (CML), Add		51.49	
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add		92.68	
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add		38.62	
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0028	EA 18" Mechanical Joint Ductile Iron 90 Degree Elbow	.....	861.19	159.19
	For Cement Mortar Lining (CML), Add		62.00	
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add		111.61	
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add		46.50	
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0029	EA 20" Mechanical Joint Ductile Iron 90 Degree Elbow	.....	1,166.02	198.99
	For Cement Mortar Lining (CML), Add		86.46	
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add		155.62	
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add		64.84	
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0030	EA 24" Mechanical Joint Ductile Iron 90 Degree Elbow	.....	1,692.05	264.97
	For Cement Mortar Lining (CML), Add		129.05	
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add		232.29	
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add		96.79	
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0031	EA 30" Mechanical Joint Ductile Iron 90 Degree Elbow	.....	2,501.67	284.27
	For Cement Mortar Lining (CML), Add		207.10	
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add		372.77	
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add		155.32	
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0032	EA 36" Mechanical Joint Ductile Iron 90 Degree Elbow	.....	3,684.80	295.12
	For Cement Mortar Lining (CML), Add		323.77	
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add		582.79	
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add		242.83	
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0033	EA 42" Mechanical Joint Ductile Iron 90 Degree Elbow	.....	6,068.83	341.12
	For Cement Mortar Lining (CML), Add		555.20	
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add		999.36	
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add		416.40	
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0034	EA 48" Mechanical Joint Ductile Iron 90 Degree Elbow	.....	7,952.90	362.91
	For Cement Mortar Lining (CML), Add		740.31	
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add		1,332.55	
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add		555.23	
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0035	Mechanical Joint Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0002)</small>			
33 14 13 13-0036	EA 3" Mechanical Joint Ductile Iron 45 Degree Elbow	.....	85.94	32.53
	For Cement Mortar Lining (CML), Add		3.67	
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add		6.60	
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add		2.75	
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0037	EA 4" Mechanical Joint Ductile Iron 45 Degree Elbow	.....	95.54	38.86
	For Cement Mortar Lining (CML), Add		3.67	
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add		6.60	
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add		2.75	
	Note: ANSI/AWWA C151/A21.51			

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0038 EA 6" Mechanical Joint Ductile Iron 45 Degree Elbow	145.86	57.44
For Cement Mortar Lining (CML), Add	5.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	10.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0039 EA 8" Mechanical Joint Ductile Iron 45 Degree Elbow	189.19	68.13
For Cement Mortar Lining (CML), Add	8.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	15.46	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.44	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0040 EA 10" Mechanical Joint Ductile Iron 45 Degree Elbow	240.14	75.64
For Cement Mortar Lining (CML), Add	12.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	22.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0041 EA 12" Mechanical Joint Ductile Iron 45 Degree Elbow	321.82	88.72
For Cement Mortar Lining (CML), Add	18.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	33.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0042 EA 14" Mechanical Joint Ductile Iron 45 Degree Elbow	445.72	99.49
For Cement Mortar Lining (CML), Add	29.50	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	53.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.12	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0043 EA 16" Mechanical Joint Ductile Iron 45 Degree Elbow	539.97	113.71
For Cement Mortar Lining (CML), Add	36.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	66.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0044 EA 18" Mechanical Joint Ductile Iron 45 Degree Elbow	768.66	159.19
For Cement Mortar Lining (CML), Add	52.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	94.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0045 EA 20" Mechanical Joint Ductile Iron 45 Degree Elbow	865.02	198.99
For Cement Mortar Lining (CML), Add	56.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	101.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	42.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0046 EA 24" Mechanical Joint Ductile Iron 45 Degree Elbow	1,257.67	264.97
For Cement Mortar Lining (CML), Add	85.61	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	154.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	64.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0047 EA 30" Mechanical Joint Ductile Iron 45 Degree Elbow	2,170.03	284.27
For Cement Mortar Lining (CML), Add	173.93	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	313.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	130.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0048 EA 36" Mechanical Joint Ductile Iron 45 Degree Elbow	2,990.28	295.12
For Cement Mortar Lining (CML), Add	254.32	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	457.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	190.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0049 EA 42" Mechanical Joint Ductile Iron 45 Degree Elbow	4,424.44	341.12
For Cement Mortar Lining (CML), Add	390.76	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	703.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	293.07	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 14 13 13-0050	EA		48" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,670.46 512.06 921.71 384.05	362.91
33 14 13 13-0051				Mechanical Joint Ductile Iron 22-1/2 Degree Elbow <small>(33 14 13 13-0002)</small>		
	33 14 13 13-0052	EA		3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	78.13 2.88 5.19 2.16	32.53
	33 14 13 13-0053	EA		4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	93.74 3.49 6.27 2.61	38.86
	33 14 13 13-0054	EA		6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	141.05 5.41 9.73 4.06	57.44
	33 14 13 13-0055	EA		8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	187.39 8.41 15.14 6.31	68.13
	33 14 13 13-0056	EA		10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	239.54 12.50 22.49 9.37	75.64
	33 14 13 13-0057	EA		12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	298.39 16.40 29.52 12.30	88.72
	33 14 13 13-0058	EA		14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	449.33 29.86 53.75 22.40	99.49
	33 14 13 13-0059	EA		16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	524.95 35.27 63.48 26.45	113.71
	33 14 13 13-0060	EA		18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	674.34 43.32 77.97 32.49	159.19
	33 14 13 13-0061	EA		20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	890.25 58.88 105.98 44.16	198.99
	33 14 13 13-0062	EA		24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,191.58 79.01 142.21 59.25	264.97

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0063 EA 30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,888.25	284.27
For Cement Mortar Lining (CML), Add	145.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	262.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	109.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0064 EA 36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,583.53	295.12
For Cement Mortar Lining (CML), Add	213.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	384.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	160.23	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0065 EA 42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,742.54	341.12
For Cement Mortar Lining (CML), Add	322.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	580.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	241.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0066 EA 48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,750.03	362.91
For Cement Mortar Lining (CML), Add	420.02	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	756.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	315.01	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0067 Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <small>(33 14 13 13-0002)</small>		
33 14 13 13-0068 EA 3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	78.13	32.53
For Cement Mortar Lining (CML), Add	2.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	5.19	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0069 EA 4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	91.93	38.86
For Cement Mortar Lining (CML), Add	3.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	5.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0070 EA 6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	142.85	57.44
For Cement Mortar Lining (CML), Add	5.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	10.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.19	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0071 EA 8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	179.58	68.13
For Cement Mortar Lining (CML), Add	7.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	13.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0072 EA 10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	238.33	75.64
For Cement Mortar Lining (CML), Add	12.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	22.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0073 EA 12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	288.17	88.72
For Cement Mortar Lining (CML), Add	15.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	27.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0074 EA 14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	491.38	99.49
For Cement Mortar Lining (CML), Add	34.07	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	61.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0075 EA 16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	545.38	113.71
For Cement Mortar Lining (CML), Add	37.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	67.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.98	
Note: ANSI/AWWA C151/A21.51		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0076 EA 18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	788.49 54.73 98.52 41.05	159.19
33 14 13 13-0077 EA 20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	856.02 55.45 99.82 41.59	198.99
33 14 13 13-0078 EA 24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,141.11 73.96 133.12 55.47	264.97
33 14 13 13-0079 EA 30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,914.69 148.40 267.12 111.30	284.27
33 14 13 13-0080 EA 36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,475.39 202.83 365.09 152.12	295.12
33 14 13 13-0081 EA 42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,595.34 307.85 554.13 230.89	341.12
33 14 13 13-0082 EA 48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,721.19 417.14 750.84 312.85	362.91
33 14 13 13-0083 Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <small>(33 14 13 13-0002)</small>		
33 14 13 13-0084 EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	91.95 4.27 7.68 3.20	32.53
33 14 13 13-0085 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	111.76 5.29 9.52 3.97	38.86
33 14 13 13-0086 EA 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	174.70 8.77 15.79 6.58	57.44
33 14 13 13-0087 EA 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	228.85 12.56 22.60 9.42	68.13

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0088 EA 10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	311.63	75.64
For Cement Mortar Lining (CML), Add	19.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0089 EA 12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	392.11	88.72
For Cement Mortar Lining (CML), Add	25.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	46.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0090 EA 14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	630.17	99.49
For Cement Mortar Lining (CML), Add	47.94	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	86.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0091 EA 16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	931.69	113.71
For Cement Mortar Lining (CML), Add	75.94	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	136.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	56.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0092 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	1,103.91	159.19
For Cement Mortar Lining (CML), Add	86.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	155.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	64.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0093 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	1,485.66	198.99
For Cement Mortar Lining (CML), Add	118.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	213.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	88.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0094 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	1,824.22	264.97
For Cement Mortar Lining (CML), Add	142.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	256.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	106.70	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0095 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	3,232.24	284.27
For Cement Mortar Lining (CML), Add	280.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	504.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	210.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0096 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	5,609.76	295.12
For Cement Mortar Lining (CML), Add	516.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	929.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	387.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0097 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0002)</small>		
33 14 13 13-0098 EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	86.54	32.53
For Cement Mortar Lining (CML), Add	3.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	6.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0099 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	97.34	38.86
For Cement Mortar Lining (CML), Add	3.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	6.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.88	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33	
	Water Utilities	33 10	33
	Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0100 EA 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	152.47 6.55 11.79 4.91	57.44
33 14 13 13-0101 EA 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	208.42 10.51 18.93 7.89	68.13
33 14 13 13-0102 EA 10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	270.78 15.62 28.12 11.72	75.64
33 14 13 13-0103 EA 12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	356.67 22.23 40.01 16.67	88.72
33 14 13 13-0104 EA 14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	567.08 41.64 74.94 31.23	99.49
33 14 13 13-0105 EA 16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	832.56 66.03 118.85 49.52	113.71
33 14 13 13-0106 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,003.58 76.24 137.24 57.18	159.19
33 14 13 13-0107 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,297.01 99.55 179.20 74.66	198.99
33 14 13 13-0108 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,642.18 124.07 223.32 93.05	264.97
33 14 13 13-0109 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,867.55 243.68 438.63 182.76	284.27
33 14 13 13-0110 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,938.67 449.16 808.48 336.87	295.12
33 14 13 13-0111 Mechanical Joint Ductile Iron Tee (33 14 13 13-0002)		
33 14 13 13-0112 EA 3" x 3" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	143.62 6.97 12.54 5.23	48.79

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0113 EA 4" x 3" Mechanical Joint Ductile Iron Tee.....	152.31	54.53
For Cement Mortar Lining (CML), Add	6.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	12.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.23	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0114 EA 4" x 4" Mechanical Joint Ductile Iron Tee.....	145.26	57.44
For Cement Mortar Lining (CML), Add	5.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	10.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.37	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0115 EA 6" x 3" Mechanical Joint Ductile Iron Tee.....	190.14	72.36
For Cement Mortar Lining (CML), Add	8.05	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	14.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.04	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0116 EA 6" x 4" Mechanical Joint Ductile Iron Tee.....	212.08	75.34
For Cement Mortar Lining (CML), Add	9.79	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	17.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0117 EA 6" x 6" Mechanical Joint Ductile Iron Tee.....	232.87	84.35
For Cement Mortar Lining (CML), Add	10.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	18.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0118 EA 8" x 4" Mechanical Joint Ductile Iron Tee.....	245.83	87.31
For Cement Mortar Lining (CML), Add	11.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	20.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0119 EA 8" x 6" Mechanical Joint Ductile Iron Tee.....	276.84	96.28
For Cement Mortar Lining (CML), Add	13.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	23.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0120 EA 8" x 8" Mechanical Joint Ductile Iron Tee.....	312.96	102.29
For Cement Mortar Lining (CML), Add	15.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0121 EA 10" x 4" Mechanical Joint Ductile Iron Tee.....	316.64	94.00
For Cement Mortar Lining (CML), Add	17.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	31.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0122 EA 10" x 6" Mechanical Joint Ductile Iron Tee.....	324.16	102.52
For Cement Mortar Lining (CML), Add	16.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	30.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0123 EA 10" x 8" Mechanical Joint Ductile Iron Tee.....	361.62	108.21
For Cement Mortar Lining (CML), Add	19.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.58	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0124 EA 10" x 10" Mechanical Joint Ductile Iron Tee.....	398.18	113.71
For Cement Mortar Lining (CML), Add	22.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.94	
Note: ANSI/AWWA C151/A21.51		



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0125	EA 12" x 4" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....372.93 21.33 38.39 16.00	105.36
33 14 13 13-0126	EA 12" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....418.89 24.63 44.34 18.47	113.89
33 14 13 13-0127	EA 12" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....497.80 31.66 56.99 23.75	119.58
33 14 13 13-0128	EA 12" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....530.75 34.13 61.43 25.59	125.07
33 14 13 13-0129	EA 12" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....513.54 31.54 56.78 23.66	130.76
33 14 13 13-0130	EA 14" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....542.32 34.13 61.43 25.59	132.71
33 14 13 13-0131	EA 14" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....596.01 38.63 69.54 28.97	138.40
33 14 13 13-0132	EA 14" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....734.11 51.61 92.90 38.71	143.89
33 14 13 13-0133	EA 14" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....781.17 55.45 99.82 41.59	149.57
33 14 13 13-0134	EA 14" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....765.98 52.51 94.52 39.38	159.02
33 14 13 13-0135	EA 16" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....681.50 44.04 79.27 33.03	159.18
33 14 13 13-0136	EA 16" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....728.05 47.82 86.08 35.87	164.87

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0137 EA 16" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	830.09 57.20 102.95 42.90	170.37
33 14 13 13-0138 EA 16" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	899.98 63.32 113.98 47.49	176.04
33 14 13 13-0139 EA 16" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,061.44 78.04 140.48 58.53	185.46
33 14 13 13-0140 EA 16" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,022.61 72.16 129.88 54.12	198.72
33 14 13 13-0141 EA 18" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	932.30 62.36 112.25 46.77	203.72
33 14 13 13-0142 EA 18" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	992.60 67.53 121.55 50.65	209.41
33 14 13 13-0143 EA 18" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,064.60 73.90 133.02 55.42	214.90
33 14 13 13-0144 EA 18" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,136.30 80.21 144.37 60.16	220.59
33 14 13 13-0145 EA 18" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,171.58 82.31 148.16 61.73	230.00
33 14 13 13-0146 EA 18" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,248.71 88.02 158.43 66.01	243.24
33 14 13 13-0147 EA 18" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,446.47 104.42 187.95 78.31	265.49
33 14 13 13-0148 EA 20" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,144.36 70.17 126.31 52.63	292.14



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0149	EA 20" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....	1,168.62 71.74 129.12 53.80	297.83
33 14 13 13-0150	EA 20" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....	1,255.64 79.61 143.29 59.70	303.32
33 14 13 13-0151	EA 20" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....	1,342.35 87.42 157.35 65.56	309.01
33 14 13 13-0152	EA 20" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....	1,363.21 88.08 158.54 66.06	318.41
33 14 13 13-0153	EA 20" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....	1,390.48 88.80 159.84 66.60	331.66
33 14 13 13-0154	EA 20" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....	1,695.78 115.95 208.72 86.97	353.92
33 14 13 13-0155	EA 20" x 20" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....	1,565.71 96.25 173.25 72.19	398.14
33 14 13 13-0156	EA 24" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....	1,420.31 84.41 151.94 63.31	380.28
33 14 13 13-0157	EA 24" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....	1,439.75 85.49 153.89 64.12	386.52
33 14 13 13-0158	EA 24" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....	1,558.62 96.55 173.79 72.41	391.46
33 14 13 13-0159	EA 24" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....	1,594.26 99.25 178.65 74.44	397.15
33 14 13 13-0160	EA 24" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	.....	1,761.11 114.51 206.12 85.88	406.56

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0161 EA 24" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,886.32 125.03 225.05 93.77	419.79
33 14 13 13-0162 EA 24" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,114.72 144.49 260.09 108.37	442.06
33 14 13 13-0163 EA 24" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,340.92 160.41 288.75 120.31	486.27
33 14 13 13-0164 EA 24" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,232.25 142.87 257.17 107.15	530.37
33 14 13 13-0165 EA 30" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,291.66 161.20 290.15 120.90	448.62
33 14 13 13-0166 EA 30" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,399.11 171.11 307.99 128.33	454.10
33 14 13 13-0167 EA 30" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,506.86 181.02 325.84 135.77	459.79
33 14 13 13-0168 EA 30" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,661.71 195.08 351.14 146.31	469.20
33 14 13 13-0169 EA 30" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,831.96 210.10 378.18 157.58	624.27
33 14 13 13-0170 EA 30" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,916.16 215.15 387.26 161.36	504.70
33 14 13 13-0171 EA 30" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,053.44 222.18 399.92 166.63	548.92
33 14 13 13-0172 EA 30" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,221.75 232.33 418.19 174.25	592.98



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0173 EA 30" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,940.90 299.50 539.10 224.62	624.27
33 14 13 13-0174 EA 30" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,374.36 170.33 306.59 127.75	442.92
33 14 13 13-0175 EA 36" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,759.50 200.55 360.98 150.41	497.65
33 14 13 13-0176 EA 36" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,028.57 226.62 407.92 169.97	503.15
33 14 13 13-0177 EA 36" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,176.57 240.56 433.01 180.42	508.83
33 14 13 13-0178 EA 36" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,287.55 250.23 450.42 187.67	518.24
33 14 13 13-0179 EA 36" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,403.14 259.79 467.61 194.84	531.48
33 14 13 13-0180 EA 36" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,621.93 278.29 500.92 208.72	553.75
33 14 13 13-0181 EA 36" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,874.54 296.86 534.34 222.64	597.96
33 14 13 13-0182 EA 36" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,270.56 329.78 593.60 247.33	642.02
33 14 13 13-0183 EA 36" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,691.11 367.09 660.76 275.32	697.92
33 14 13 13-0184 EA 36" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,404.16 434.68 782.42 326.01	697.92

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0185 EA 42" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,868.83 505.63 910.14 379.22	536.24
33 14 13 13-0186 EA 42" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,985.22 515.85 928.52 386.89	545.66
33 14 13 13-0187 EA 42" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,612.69 576.59 1,037.86 432.44	558.89
33 14 13 13-0188 EA 42" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,231.88 535.13 963.24 401.35	581.15
33 14 13 13-0189 EA 42" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,298.87 535.13 963.24 401.35	625.37
33 14 13 13-0190 EA 42" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,463.56 544.93 980.87 408.69	669.44
33 14 13 13-0191 EA 42" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,746.27 668.45 1,203.21 501.34	700.77
33 14 13 13-0192 EA 42" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,063.99 696.51 1,253.71 522.38	725.29
33 14 13 13-0193 EA 42" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,507.12 738.74 1,329.74 554.06	739.00
33 14 13 13-0194 EA 48" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,871.67 599.30 1,078.74 449.47	579.94
33 14 13 13-0195 EA 48" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,994.07 610.11 1,098.20 457.58	589.34
33 14 13 13-0196 EA 48" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,167.33 625.43 1,125.78 469.07	602.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0197 EA 48" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,353.67 640.69 1,153.25 480.52	624.85
33 14 13 13-0198 EA 48" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,573.86 656.01 1,180.83 492.01	669.06
33 14 13 13-0199 EA 48" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,661.06 658.06 1,184.50 493.54	713.12
33 14 13 13-0200 EA 48" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,221.93 809.40 1,456.92 607.05	744.45
33 14 13 13-0201 EA 48" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,448.66 928.36 1,671.04 696.27	768.97
33 14 13 13-0202 EA 48" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,940.47 975.46 1,755.83 731.59	782.67
33 14 13 13-0203 EA 48" x 48" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,130.38 991.14 1,784.05 743.36	804.55
33 14 13 13-0204 Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0002)		
33 14 13 13-0205 EA 4" x 3" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	133.69 5.11 9.19 3.83	54.53
33 14 13 13-0206 EA 4" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	182.51 9.55 17.20 7.16	57.41
33 14 13 13-0207 EA 6" x 3" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	190.14 8.05 14.49 6.04	72.36
33 14 13 13-0208 EA 6" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	212.68 9.85 17.74 7.39	75.34
33 14 13 13-0209 EA 6" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	271.92 14.42 25.95 10.81	84.31

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0210 EA 8" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	331.14	87.31
For Cement Mortar Lining (CML), Add	19.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0211 EA 8" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	312.29	96.28
For Cement Mortar Lining (CML), Add	16.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	29.96	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0212 EA 8" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	365.23	102.26
For Cement Mortar Lining (CML), Add	21.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	37.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0213 EA 10" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	477.06	94.00
For Cement Mortar Lining (CML), Add	33.47	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	60.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0214 EA 10" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	507.41	102.52
For Cement Mortar Lining (CML), Add	35.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	63.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0215 EA 10" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	574.91	108.21
For Cement Mortar Lining (CML), Add	41.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	73.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0216 EA 10" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	640.30	113.71
For Cement Mortar Lining (CML), Add	46.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	84.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0217 EA 12" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	596.43	105.36
For Cement Mortar Lining (CML), Add	43.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	78.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.76	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0218 EA 12" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	670.02	113.89
For Cement Mortar Lining (CML), Add	49.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	89.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0219 EA 12" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	792.19	119.58
For Cement Mortar Lining (CML), Add	61.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	109.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	45.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0220 EA 12" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	816.74	125.07
For Cement Mortar Lining (CML), Add	62.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	112.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	47.04	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0221 EA 12" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	755.05	130.75
For Cement Mortar Lining (CML), Add	55.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	100.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.77	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0222 EA 14" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	871.56 67.05 120.69 50.29	132.71
33 14 13 13-0223 EA 14" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	985.93 77.62 139.72 58.22	138.40
33 14 13 13-0224 EA 14" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,255.60 103.76 186.76 77.82	143.89
33 14 13 13-0225 EA 14" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,341.11 111.45 200.61 83.59	149.57
33 14 13 13-0226 EA 14" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,321.72 108.08 194.55 81.06	158.98
33 14 13 13-0227 EA 16" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	915.29 67.41 121.34 50.56	159.18
33 14 13 13-0228 EA 16" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	998.41 74.86 134.75 56.15	164.87
33 14 13 13-0229 EA 16" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,156.33 89.82 161.68 67.37	170.37
33 14 13 13-0230 EA 16" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,280.89 101.42 182.55 76.06	176.04
33 14 13 13-0231 EA 16" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,572.72 129.17 232.51 96.88	185.46
33 14 13 13-0232 EA 16" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,533.89 123.28 221.91 92.46	198.69
33 14 13 13-0233 EA 18" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,400.32 109.17 196.50 81.87	203.72

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0234 EA 18" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,499.07	209.41
For Cement Mortar Lining (CML), Add	118.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	212.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	88.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0235 EA 18" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,594.51	214.90
For Cement Mortar Lining (CML), Add	126.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	228.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	95.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0236 EA 18" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	1,698.05	220.59
For Cement Mortar Lining (CML), Add	136.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	245.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	102.29	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0237 EA 18" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	1,723.11	230.00
For Cement Mortar Lining (CML), Add	137.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	247.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	103.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0238 EA 18" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	1,750.38	243.24
For Cement Mortar Lining (CML), Add	138.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	248.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	103.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0239 EA 18" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	1,638.73	265.50
For Cement Mortar Lining (CML), Add	123.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	222.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	92.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0240 EA 20" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,705.51	292.14
For Cement Mortar Lining (CML), Add	126.29	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	227.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	94.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0241 EA 20" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,742.38	297.83
For Cement Mortar Lining (CML), Add	129.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	232.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	96.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0242 EA 20" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,892.49	303.32
For Cement Mortar Lining (CML), Add	143.29	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	257.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	107.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0243 EA 20" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	2,041.69	309.01
For Cement Mortar Lining (CML), Add	157.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	283.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	118.01	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0244 EA 20" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	2,067.95	318.41
For Cement Mortar Lining (CML), Add	158.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	285.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	118.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0245 EA 20" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	2,100.63	331.66
For Cement Mortar Lining (CML), Add	159.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	287.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	119.86	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0246 EA 20" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,407.13 187.09 336.76 140.32	353.92
33 14 13 13-0247 EA 20" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,335.94 173.27 311.89 129.95	398.13
33 14 13 13-0248 EA 24" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,095.61 151.94 273.50 113.96	380.28
33 14 13 13-0249 EA 24" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,123.46 153.87 276.96 115.40	385.97
33 14 13 13-0250 EA 24" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,330.64 173.75 312.75 130.31	391.46
33 14 13 13-0251 EA 24" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,428.17 182.64 328.76 136.98	397.15
33 14 13 13-0252 EA 24" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,757.24 214.13 385.43 160.59	406.56
33 14 13 13-0253 EA 24" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,035.05 239.90 431.82 179.92	419.79
33 14 13 13-0254 EA 24" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,371.60 270.18 486.32 202.64	442.06
33 14 13 13-0255 EA 24" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,704.73 296.80 534.23 222.60	486.27
33 14 13 13-0256 EA 24" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,374.97 257.14 462.86 192.86	530.35
33 14 13 13-0257 EA 30" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,022.95 335.19 603.33 251.39	442.92

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0258 EA 30" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	4,467.75	448.62
For Cement Mortar Lining (CML), Add	378.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	681.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	284.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0259 EA 30" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	4,709.18	454.10
For Cement Mortar Lining (CML), Add	402.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	723.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	301.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0260 EA 30" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	4,950.91	459.79
For Cement Mortar Lining (CML), Add	425.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	765.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	319.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0261 EA 30" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	5,295.01	469.20
For Cement Mortar Lining (CML), Add	458.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	825.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	343.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0262 EA 30" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	5,668.33	482.43
For Cement Mortar Lining (CML), Add	493.74	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	888.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	370.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0263 EA 30" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	5,820.43	504.70
For Cement Mortar Lining (CML), Add	505.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	910.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	379.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0264 EA 30" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	6,052.63	548.92
For Cement Mortar Lining (CML), Add	522.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	939.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	391.57	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0265 EA 30" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	6,357.93	592.98
For Cement Mortar Lining (CML), Add	545.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	982.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	409.46	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0266 EA 30" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	6,874.60	624.31
For Cement Mortar Lining (CML), Add	592.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,067.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	444.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0267 EA 36" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	7,386.38	508.83
For Cement Mortar Lining (CML), Add	661.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,190.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	496.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0268 EA 36" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	7,666.78	518.24
For Cement Mortar Lining (CML), Add	688.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,238.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	516.12	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0269 EA 36" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	7,949.39	531.48
For Cement Mortar Lining (CML), Add	714.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,285.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	535.81	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0270	EA		36" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,492.01 765.30 1,377.54 573.97	553.75
33 14 13	13-0271	EA		36" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,069.66 816.37 1,469.46 612.28	597.96
33 14 13	13-0272	EA		36" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,041.85 906.91 1,632.43 680.18	642.02
33 14 13	13-0273	EA		36" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,208.59 1,018.84 1,833.91 764.13	673.34
33 14 13	13-0274	EA		36" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,283.06 1,222.57 2,200.62 916.93	697.87
33 14 13	13-0275	EA		42" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,698.26 1,075.07 1,935.13 806.30	625.37
33 14 13	13-0276	EA		42" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,015.55 1,100.13 1,980.23 825.09	669.44
33 14 13	13-0277	EA		42" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,822.43 1,176.07 2,116.92 882.05	700.77
33 14 13	13-0278	EA		42" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,595.89 1,349.70 2,429.45 1,012.27	725.29
33 14 13	13-0279	EA		42" x 42" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,112.39 1,599.27 2,878.69 1,199.45	738.99
33 14 13	13-0280	EA		48" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,586.60 1,057.29 1,903.12 792.97	669.06
33 14 13	13-0281	EA		48" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,083.28 1,200.28 2,160.50 900.21	713.12

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0282 EA 48" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	13,930.40	744.45
For Cement Mortar Lining (CML), Add	1,280.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,304.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	960.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0283 EA 48" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	15,809.00	768.97
For Cement Mortar Lining (CML), Add	1,464.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,635.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,098.29	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0284 EA 48" x 42" Mechanical Joint Ductile Iron Wye (Lateral)	20,473.96	782.67
For Cement Mortar Lining (CML), Add	1,928.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,471.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,446.61	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0285 EA 48" x 48" Mechanical Joint Ductile Iron Wye (Lateral)	22,429.61	804.52
For Cement Mortar Lining (CML), Add	2,121.06	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,817.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,590.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0286 Mechanical Joint Ductile Iron Cross (33 14 13 13-0002)		
33 14 13 13-0287 EA 3" x 3" Mechanical Joint Ductile Iron Cross	176.07	65.06
For Cement Mortar Lining (CML), Add	7.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	13.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0288 EA 4" x 3" Mechanical Joint Ductile Iron Cross	206.40	70.80
For Cement Mortar Lining (CML), Add	9.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	17.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.43	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0289 EA 4" x 4" Mechanical Joint Ductile Iron Cross	234.30	71.75
For Cement Mortar Lining (CML), Add	12.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	22.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0290 EA 6" x 3" Mechanical Joint Ductile Iron Cross	282.25	88.70
For Cement Mortar Lining (CML), Add	14.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	26.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.09	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0291 EA 6" x 4" Mechanical Joint Ductile Iron Cross	281.94	95.68
For Cement Mortar Lining (CML), Add	13.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0292 EA 6" x 6" Mechanical Joint Ductile Iron Cross	335.00	119.59
For Cement Mortar Lining (CML), Add	15.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	27.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0293 EA 8" x 4" Mechanical Joint Ductile Iron Cross	294.94	104.65
For Cement Mortar Lining (CML), Add	13.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.23	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0294 EA 8" x 6" Mechanical Joint Ductile Iron Cross	354.01	128.57
For Cement Mortar Lining (CML), Add	15.92	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.94	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0295 EA 8" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	376.03 16.76 30.17 12.57	137.53
33 14 13 13-0296 EA 10" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	344.40 17.78 32.01 13.34	109.93
33 14 13 13-0297 EA 10" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	400.49 19.95 35.90 14.96	132.67
33 14 13 13-0298 EA 10" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	461.48 24.75 44.56 18.56	141.21
33 14 13 13-0299 EA 10" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	498.31 26.86 48.34 20.14	151.61
33 14 13 13-0300 EA 12 x 4" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	405.60 22.47 40.45 16.85	119.39
33 14 13 13-0301 EA 12" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	474.29 25.89 46.61 19.42	142.13
33 14 13 13-0302 EA 12" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	636.83 40.85 73.54 30.64	150.67
33 14 13 13-0303 EA 12" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	652.63 40.85 73.54 30.64	161.10
33 14 13 13-0304 EA 12" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	730.05 47.16 84.89 35.37	170.56
33 14 13 13-0305 EA 14" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	731.94 49.51 89.11 37.13	156.34
33 14 13 13-0306 EA 14" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	844.60 59.48 107.06 44.61	164.87

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0307 EA 14" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	872.42 60.68 109.23 45.51	175.31
33 14 13 13-0308 EA 14" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	920.40 64.05 115.28 48.03	184.76
33 14 13 13-0309 EA 14" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,013.42 71.20 128.15 53.40	198.99
33 14 13 13-0310 EA 16" x 6" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	834.77 56.78 102.20 42.58	176.23
33 14 13 13-0311 EA 16" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	936.01 65.61 118.09 49.21	184.76
33 14 13 13-0312 EA 16" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,097.55 80.18 144.33 60.14	195.18
33 14 13 13-0313 EA 16" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,211.88 90.18 162.32 67.64	204.65
33 14 13 13-0314 EA 16" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,438.88 110.73 199.31 83.05	218.86
33 14 13 13-0315 EA 16" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,669.07 130.73 235.32 98.05	238.78
33 14 13 13-0316 EA 18" x 6" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,307.65 99.19 178.55 74.39	208.38
33 14 13 13-0317 EA 18" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,379.46 105.08 189.14 78.81	216.92
33 14 13 13-0318 EA 18" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,444.52 110.01 198.01 82.50	227.34



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0319 EA 18" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,557.40 119.86 215.75 89.90	236.81
33 14 13 13-0320 EA 18" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,794.60 141.43 254.57 106.07	251.01
33 14 13 13-0321 EA 18" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,913.65 150.32 270.58 112.74	270.90
33 14 13 13-0322 EA 18" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,021.25 156.21 281.17 117.16	303.05
33 14 13 13-0323 EA 20" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,643.41 124.73 224.51 93.54	261.46
33 14 13 13-0324 EA 20" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,715.82 130.67 235.21 98.01	270.00
33 14 13 13-0325 EA 20" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,770.67 134.58 242.24 100.93	280.42
33 14 13 13-0326 EA 20" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,882.94 144.37 259.87 108.28	289.88
33 14 13 13-0327 EA 20" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,924.29 146.36 263.44 109.77	304.10
33 14 13 13-0328 EA 20" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,288.46 179.76 323.57 134.82	323.97
33 14 13 13-0329 EA 20" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,396.07 185.65 334.16 139.24	356.13
33 14 13 13-0330 EA 20" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,614.07 199.41 358.93 149.55	409.17

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0331 EA 24" x 6" Mechanical Joint Ductile Iron Cross.....	2,214.44	327.06
For Cement Mortar Lining (CML), Add	171.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	309.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	128.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0332 EA 24" x 8" Mechanical Joint Ductile Iron Cross.....	2,267.29	335.60
For Cement Mortar Lining (CML), Add	175.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	316.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	131.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0333 EA 24" x 10" Mechanical Joint Ductile Iron Cross.....	2,351.32	346.03
For Cement Mortar Lining (CML), Add	182.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	328.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	137.03	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0334 EA 24" x 12" Mechanical Joint Ductile Iron Cross.....	2,424.54	355.50
For Cement Mortar Lining (CML), Add	188.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	339.46	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	141.44	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0335 EA 24" x 14" Mechanical Joint Ductile Iron Cross.....	2,475.50	369.70
For Cement Mortar Lining (CML), Add	191.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	344.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	143.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0336 EA 24" x 16" Mechanical Joint Ductile Iron Cross.....	2,574.72	389.59
For Cement Mortar Lining (CML), Add	198.44	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	357.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	148.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0337 EA 24" x 18" Mechanical Joint Ductile Iron Cross.....	3,320.97	421.74
For Cement Mortar Lining (CML), Add	268.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	482.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	201.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0338 EA 24" x 20" Mechanical Joint Ductile Iron Cross.....	3,528.76	474.82
For Cement Mortar Lining (CML), Add	280.93	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	505.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	210.70	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0339 EA 24" x 24" Mechanical Joint Ductile Iron Cross.....	3,903.33	540.44
For Cement Mortar Lining (CML), Add	308.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	555.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	231.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0340 EA 30" x 8" Mechanical Joint Ductile Iron Cross.....	4,066.06	434.88
For Cement Mortar Lining (CML), Add	340.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	613.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	255.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0341 EA 30" x 10" Mechanical Joint Ductile Iron Cross.....	4,148.54	445.32
For Cement Mortar Lining (CML), Add	347.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	625.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	260.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0342 EA 30" x 12" Mechanical Joint Ductile Iron Cross.....	4,228.97	454.78
For Cement Mortar Lining (CML), Add	353.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	637.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	265.49	
Note: ANSI/AWWA C151/A21.51		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0343 EA 30" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,326.80 361.62 650.92 271.22	468.98
33 14 13 13-0344 EA 30" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,442.24 370.15 666.28 277.61	488.87
33 14 13 13-0345 EA 30" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,585.89 379.65 683.36 284.73	521.02
33 14 13 13-0346 EA 30" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,779.86 391.00 703.80 293.25	574.11
33 14 13 13-0347 EA 30" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,057.44 508.82 915.87 381.61	639.71
33 14 13 13-0348 EA 30" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,968.47 584.88 1,052.78 438.66	739.00
33 14 13 13-0349 EA 36" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,555.02 484.07 871.32 363.05	471.48
33 14 13 13-0350 EA 36" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,636.90 490.67 883.21 368.00	481.91
33 14 13 13-0351 EA 36" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,707.71 496.32 893.38 372.24	491.38
33 14 13 13-0352 EA 36" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,795.32 502.93 905.27 377.20	505.57
33 14 13 13-0353 EA 36" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,901.16 510.50 918.90 382.88	525.47
33 14 13 13-0354 EA 36" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,034.59 518.97 934.15 389.23	557.62

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0355 EA 36" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,218.95 529.37 952.86 397.02	610.70
33 14 13 13-0356 EA 36" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,516.62 549.19 988.54 411.89	676.31
33 14 13 13-0357 EA 36" x 30" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,658.09 748.30 1,346.93 561.22	775.59
33 14 13 13-0358 EA 36" x 36" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,477.77 824.72 1,484.49 618.54	812.23
33 14 13 13-0359 EA 42" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,349.92 657.34 1,183.20 493.00	512.53
33 14 13 13-0360 EA 42" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,264.08 746.60 1,343.88 559.95	526.74
33 14 13 13-0361 EA 42" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,536.75 670.85 1,207.54 503.14	546.62
33 14 13 13-0362 EA 42" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,658.17 678.12 1,220.62 508.59	578.78
33 14 13 13-0363 EA 42" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,837.72 688.04 1,238.46 516.03	631.86
33 14 13 13-0364 EA 42" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,117.97 706.12 1,271.02 529.59	697.47
33 14 13 13-0365 EA 42" x 30" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,308.72 910.15 1,638.27 682.61	796.75
33 14 13 13-0366 EA 42" x 36" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,281.04 1,201.84 2,163.31 901.38	833.35



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 14 13	13-0367	EA	42" x 42" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,197.48 1,290.28 2,322.50 967.71	854.52
	33 14 13	13-0368	EA	48" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,852.17 894.83 1,610.70 671.12	596.54
	33 14 13	13-0369	EA	48" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,927.77 900.24 1,620.43 675.18	610.76
	33 14 13	13-0370	EA	48" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,030.00 907.45 1,633.41 680.59	630.63
	33 14 13	13-0371	EA	48" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,150.81 914.66 1,646.38 685.99	662.80
	33 14 13	13-0372	EA	48" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,321.96 923.73 1,662.71 692.80	715.87
	33 14 13	13-0373	EA	48" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,592.60 940.85 1,693.54 705.64	781.48
	33 14 13	13-0374	EA	48" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,257.90 992.34 1,786.21 744.26	880.77
	33 14 13	13-0375	EA	48" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,651.67 1,226.17 2,207.11 919.63	917.36
	33 14 13	13-0376	EA	48" x 42" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,340.80 1,591.88 2,865.38 1,193.91	938.53
	33 14 13	13-0377	EA	48" x 48" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,488.26 1,693.90 3,049.01 1,270.42	1,022.49
	33 14 13	13-0378		Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0002)		
	33 14 13	13-0379	EA	4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	88.48 3.49 6.27 2.61	35.39

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0380 EA 6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	105.67	44.37
For Cement Mortar Lining (CML), Add	3.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	6.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0381 EA 6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	113.63	47.24
For Cement Mortar Lining (CML), Add	4.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	7.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0382 EA 8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	138.41	53.23
For Cement Mortar Lining (CML), Add	5.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	10.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0383 EA 8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	155.51	62.19
For Cement Mortar Lining (CML), Add	6.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	11.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0384 EA 10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	160.10	56.09
For Cement Mortar Lining (CML), Add	7.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	13.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0385 EA 10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	177.22	64.62
For Cement Mortar Lining (CML), Add	7.93	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	14.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.95	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0386 EA 10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	193.65	70.31
For Cement Mortar Lining (CML), Add	8.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	15.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0387 EA 12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	188.53	61.78
For Cement Mortar Lining (CML), Add	9.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	17.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.12	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0388 EA 12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	211.06	70.31
For Cement Mortar Lining (CML), Add	10.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	18.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0389 EA 12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	222.68	76.00
For Cement Mortar Lining (CML), Add	10.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	19.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0390 EA 12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	242.42	81.49
For Cement Mortar Lining (CML), Add	11.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	21.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0391 EA 14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	352.69	79.71
For Cement Mortar Lining (CML), Add	23.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	41.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.39	
Note: ANSI/AWWA C151/A21.51		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0392 EA 14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	349.29 21.99 39.58 16.49	85.41
33 14 13 13-0393 EA 14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	325.17 18.75 33.74 14.06	90.89
33 14 13 13-0394 EA 14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	342.80 19.65 35.36 14.73	96.58
33 14 13 13-0395 EA 16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	413.60 27.28 49.10 20.46	92.94
33 14 13 13-0396 EA 16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	412.00 26.26 47.26 19.69	98.64
33 14 13 13-0397 EA 16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	410.71 25.29 45.53 18.97	104.14
33 14 13 13-0398 EA 16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	442.76 27.64 49.75 20.73	109.82
33 14 13 13-0399 EA 16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	490.06 30.94 55.69 23.21	119.23
33 14 13 13-0400 EA 18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	520.24 33.71 60.67 25.28	120.91
33 14 13 13-0401 EA 18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	575.43 38.39 69.10 28.79	126.40
33 14 13 13-0402 EA 18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	563.61 36.35 65.43 27.26	132.09
33 14 13 13-0403 EA 18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	598.90 38.45 69.21 28.84	141.49

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0404 EA 18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	635.77	154.73
For Cement Mortar Lining (CML), Add	40.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	72.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0405 EA 20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	729.62	165.13
For Cement Mortar Lining (CML), Add	47.94	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	86.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0406 EA 20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	710.30	170.61
For Cement Mortar Lining (CML), Add	45.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	81.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0407 EA 20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	671.45	176.30
For Cement Mortar Lining (CML), Add	40.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	72.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0408 EA 20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	682.70	185.70
For Cement Mortar Lining (CML), Add	40.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	72.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0409 EA 20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	711.17	198.94
For Cement Mortar Lining (CML), Add	40.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	73.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0410 EA 20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	838.03	221.21
For Cement Mortar Lining (CML), Add	50.29	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	90.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0411 EA 24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	953.31	220.36
For Cement Mortar Lining (CML), Add	61.94	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	111.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.46	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0412 EA 24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	983.19	229.78
For Cement Mortar Lining (CML), Add	63.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	114.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	47.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0413 EA 24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,011.66	243.01
For Cement Mortar Lining (CML), Add	64.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	115.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0414 EA 24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,017.16	265.28
For Cement Mortar Lining (CML), Add	61.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	110.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0415 EA 24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,230.74	309.49
For Cement Mortar Lining (CML), Add	76.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	137.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	57.14	
Note: ANSI/AWWA C151/A21.51		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0416 EA 30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,812.51 139.69 251.43 104.76	274.34
33 14 13 13-0417 EA 30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,901.52 145.21 261.38 108.91	296.60
33 14 13 13-0418 EA 30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,888.01 137.16 246.89 102.87	340.81
33 14 13 13-0419 EA 30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,889.30 130.61 235.11 97.96	384.89
33 14 13 13-0420 EA 36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,678.56 212.50 382.51 159.38	365.33
33 14 13 13-0421 EA 36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,307.36 168.71 303.67 126.53	409.41
33 14 13 13-0422 EA 36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,502.60 183.48 330.27 137.61	440.72
33 14 13 13-0423 EA 42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,343.00 286.94 516.50 215.21	312.56
33 14 13 13-0424 EA 42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,350.31 284.30 511.74 213.22	334.83
33 14 13 13-0425 EA 42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,407.67 283.34 510.01 212.50	379.03
33 14 13 13-0426 EA 42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,803.09 316.20 569.16 237.15	423.12
33 14 13 13-0427 EA 42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,226.91 253.84 456.91 190.38	454.43

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0428 EA 42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,380.62	478.95
For Cement Mortar Lining (CML), Add	265.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	477.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	199.12	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0429 EA 48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,429.89	334.41
For Cement Mortar Lining (CML), Add	392.32	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	706.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	294.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0430 EA 48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,323.05	356.67
For Cement Mortar Lining (CML), Add	378.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	680.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	283.70	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0431 EA 48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,173.75	400.88
For Cement Mortar Lining (CML), Add	356.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	641.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	267.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0432 EA 48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,331.24	444.96
For Cement Mortar Lining (CML), Add	365.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	658.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	274.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0433 EA 48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,127.90	476.27
For Cement Mortar Lining (CML), Add	440.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	793.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	330.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0434 EA 48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,563.65	500.79
For Cement Mortar Lining (CML), Add	380.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	684.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	285.37	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0435 EA 48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,979.74	514.51
For Cement Mortar Lining (CML), Add	420.02	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	756.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	315.01	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0436 Mechanical Joint Ductile Iron Caps (33 14 13 13-0002)		
33 14 13 13-0437 EA 3" Mechanical Joint Ductile Iron Caps.....	128.87	74.75
For Cement Mortar Lining (CML), Add	1.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0438 EA 4" Mechanical Joint Ductile Iron Caps.....	149.10	87.70
For Cement Mortar Lining (CML), Add	1.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.22	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0439 EA 6" Mechanical Joint Ductile Iron Caps.....	194.94	109.63
For Cement Mortar Lining (CML), Add	2.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	5.19	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0440 EA 8" Mechanical Joint Ductile Iron Caps.....	237.89	125.30
For Cement Mortar Lining (CML), Add	4.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	8.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.60	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0441	EA			10" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	347.82 6.07 10.92 4.55	189.51
33 14 13 13-0442	EA			12" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	403.96 9.07 16.33 6.80	206.74
33 14 13 13-0443	EA			14" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	482.15 13.76 24.76 10.32	227.41
33 14 13 13-0444	EA			16" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	567.30 18.45 33.20 13.83	252.65
33 14 13 13-0445	EA			18" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	656.01 22.53 40.55 16.90	284.27
33 14 13 13-0446	EA			20" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	783.62 29.14 52.45 21.85	324.84
33 14 13 13-0447	EA			24" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	974.40 40.01 72.02 30.01	379.02
33 14 13 13-0448	EA			30" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,604.15 91.50 164.70 68.63	454.82
33 14 13 13-0449	EA			36" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,525.63 166.42 299.56 124.82	568.53
33 14 13 13-0450	EA			42" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,557.65 252.40 454.31 189.30	682.23
33 14 13 13-0451	EA			48" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,189.79 304.13 547.43 228.09	758.04
33 14 13 13-0452				Mechanical Joint Ductile Iron Plug (33 14 13 13-0002)		
33 14 13 13-0453	EA			3" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	131.27 1.80 3.24 1.35	74.75

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0454 EA 4" Mechanical Joint Ductile Iron Plug.....	152.71	87.70
For Cement Mortar Lining (CML), Add	1.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.49	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0455 EA 6" Mechanical Joint Ductile Iron Plug.....	204.55	109.63
For Cement Mortar Lining (CML), Add	3.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	6.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0456 EA 8" Mechanical Joint Ductile Iron Plug.....	247.51	125.30
For Cement Mortar Lining (CML), Add	5.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	10.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0457 EA 10" Mechanical Joint Ductile Iron Plug.....	386.87	189.51
For Cement Mortar Lining (CML), Add	9.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	17.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0458 EA 12" Mechanical Joint Ductile Iron Plug.....	414.78	206.74
For Cement Mortar Lining (CML), Add	10.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	18.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0459 EA 14" Mechanical Joint Ductile Iron Plug.....	551.25	227.41
For Cement Mortar Lining (CML), Add	20.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	37.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.50	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0460 EA 16" Mechanical Joint Ductile Iron Plug.....	409.29	252.65
For Cement Mortar Lining (CML), Add	2.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.98	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0461 EA 18" Mechanical Joint Ductile Iron Plug.....	758.75	284.27
For Cement Mortar Lining (CML), Add	32.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	59.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0462 EA 20" Mechanical Joint Ductile Iron Plug.....	923.60	324.84
For Cement Mortar Lining (CML), Add	43.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	77.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.35	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0463 EA 24" Mechanical Joint Ductile Iron Plug.....	1,172.67	379.02
For Cement Mortar Lining (CML), Add	59.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	107.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	44.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0464 EA 30" Mechanical Joint Ductile Iron Plug.....	1,876.91	454.82
For Cement Mortar Lining (CML), Add	118.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	213.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	89.08	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0465 EA 36" Mechanical Joint Ductile Iron Plug.....	2,696.25	568.53
For Cement Mortar Lining (CML), Add	183.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	330.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	137.61	
Note: ANSI/AWWA C151/A21.51		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0466 EA 42" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,579.28 254.56 458.21 190.92	682.23
33 14 13 13-0467 EA 48" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,541.86 339.33 610.80 254.50	758.04
33 14 13 13-0468 Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0002)		
33 14 13 13-0469 EA 3" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	205.18 3.30 5.95 2.48	113.61
33 14 13 13-0470 EA 4" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	238.37 3.91 7.03 2.93	131.55
33 14 13 13-0471 EA 6" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	314.64 6.55 11.79 4.91	164.44
33 14 13 13-0472 EA 8" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	392.29 10.75 19.36 8.07	187.90
33 14 13 13-0473 EA 10" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	558.68 12.80 23.03 9.60	284.27
33 14 13 13-0474 EA 12" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	642.89 17.30 31.15 12.98	310.11
33 14 13 13-0475 EA 14" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	778.19 26.14 47.04 19.60	341.12
33 14 13 13-0476 EA 16" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	905.31 33.10 59.59 24.83	379.02
33 14 13 13-0477 EA 18" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,069.62 42.36 76.24 31.77	426.40
33 14 13 13-0478 EA 20" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,249.63 51.13 92.03 38.35	487.30

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0479 EA 24" Mechanical Joint Ductile Iron Long Sleeves	1,534.91	568.53
For Cement Mortar Lining (CML), Add	67.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	121.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	50.51	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0480 EA 30" Mechanical Joint Ductile Iron Long Sleeves	2,444.37	682.23
For Cement Mortar Lining (CML), Add	141.07	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	253.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	105.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0481 EA 36" Mechanical Joint Ductile Iron Long Sleeves	3,272.96	852.79
For Cement Mortar Lining (CML), Add	198.08	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	356.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	148.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0482 EA 42" Mechanical Joint Ductile Iron Long Sleeves	4,124.54	973.48
For Cement Mortar Lining (CML), Add	264.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	476.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	198.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0483 EA 48" Mechanical Joint Ductile Iron Long Sleeves	5,444.78	1,137.06
For Cement Mortar Lining (CML), Add	372.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	669.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	279.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0484 Mechanical Joint Ductile Iron Gland Packs <small>(33 14 13 13-0002)</small>		
Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.		
33 14 13 13-0485 Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts <small>(33 14 13 13-0484)</small>		
Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0486 EA 3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	12.02	
33 14 13 13-0487 EA 4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	32.96	
Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0488 EA 6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	39.82	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0489 EA 8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	46.69	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0490 EA 10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	64.54	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0491 EA 12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	68.66	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0492 EA 14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	112.60	
Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0493 EA 16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	119.47	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0494 EA 18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	159.29	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0495 EA 20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	205.98	
Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0496 EA 24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	287.00	
Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0497 EA 30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	685.23	
Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0498 EA 36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	1,477.56	
Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0499 EA 42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	2,157.30	
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0500 EA 48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	2,647.53	
Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0501 EA 54" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	3,556.59	
Note: Includes thirty-six (36) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0502 Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts <small>(33 14 13 13-0484)</small>		
Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0503 EA 3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	20.43	
33 14 13 13-0504 EA 4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	46.69	
Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0505 EA 6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	59.05	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0506 EA 8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	64.54	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0507 EA 10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	89.26	
33 14 13 13-0508 EA 12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	93.38	
33 14 13 13-0509 EA 14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	141.44	
33 14 13 13-0510 EA 16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	155.17	
33 14 13 13-0511 EA 18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	205.98	
33 14 13 13-0512 EA 20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	266.40	
33 14 13 13-0513 EA 24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	372.14	
33 14 13 13-0514 Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts <small>(33 14 13 13-0464)</small> Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0515 EA 3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	13.22	
33 14 13 13-0516 EA 4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	35.70	
33 14 13 13-0517 EA 6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	42.57	
33 14 13 13-0518 EA 8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	50.81	
33 14 13 13-0519 EA 10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	70.03	
33 14 13 13-0520 EA 12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	74.15	
33 14 13 13-0521 EA 14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	122.21	
33 14 13 13-0522 EA 16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	129.08	
33 14 13 13-0523 EA 18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	174.40	
33 14 13 13-0524 EA 20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	223.83	
33 14 13 13-0525 EA 24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	313.09	
33 14 13 13-0526 EA 30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.	749.77	
33 14 13 13-0527 EA 36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.	1,661.57	
33 14 13 13-0528 EA 42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.	2,405.85	
33 14 13 13-0529 EA 48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.	2,960.62	
33 14 13 13-0530 EA 54" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes thirty-six (36) 1-1/4" diameter plain finish Boltss with nut.	3,633.49	
33 14 13 13-0531 Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters <small>(33 14 13 13-0002)</small>		
33 14 13 13-0532 EA 3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	211.19 3.91 7.03 2.93	113.61
33 14 13 13-0533 EA 4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	241.38 4.21 7.57 3.15	131.55
33 14 13 13-0534 EA 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	307.43 5.83 10.49 4.37	164.44
33 14 13 13-0535 EA 8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	373.07 8.83 15.90 6.62	187.90

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0536 EA 10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	584.51	284.27
For Cement Mortar Lining (CML), Add	15.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	27.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0537 EA 12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	666.92	310.11
For Cement Mortar Lining (CML), Add	19.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0538 EA 14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	829.86	341.12
For Cement Mortar Lining (CML), Add	31.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	56.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0539 EA 16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	931.75	379.02
For Cement Mortar Lining (CML), Add	35.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	64.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0540 EA 18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,192.79	426.40
For Cement Mortar Lining (CML), Add	54.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	98.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0541 EA 20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,389.62	487.30
For Cement Mortar Lining (CML), Add	65.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	117.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0542 EA 24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,663.48	568.53
For Cement Mortar Lining (CML), Add	80.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	144.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0543 EA 30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,509.86	682.23
For Cement Mortar Lining (CML), Add	147.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	265.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	110.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0544 EA 36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	3,407.54	852.79
For Cement Mortar Lining (CML), Add	211.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	380.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	158.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0545 EA 42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	4,426.03	974.60
For Cement Mortar Lining (CML), Add	294.93	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	530.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	221.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0546 EA 48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	5,416.54	1,137.06
For Cement Mortar Lining (CML), Add	369.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	664.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	277.03	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0547 Mechanical Joint Restraints With Accessories For Ductile Iron Pipe		
(MEGALUG® 1100DEC Series) <small>(33 14 13 13-0002)</small>		
Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-0548 EA 3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC).....	148.93	56.99
33 14 13 13-0549 EA 4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC).....	170.25	67.49
33 14 13 13-0550 EA 6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC).....	211.19	83.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0551 EA 8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC).....	262.53	97.48
33 14 13 13-0552 EA 10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC).....	379.48	142.13
33 14 13 13-0553 EA 12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC).....	466.15	162.46
33 14 13 13-0554 EA 14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC).....	540.91	174.87
33 14 13 13-0555 EA 16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC).....	663.11	189.51
33 14 13 13-0556 EA 18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC).....	848.78	227.41
33 14 13 13-0557 EA 20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC).....	999.70	252.57
33 14 13 13-0558 EA 24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC).....	1,293.36	291.42
33 14 13 13-0559 EA 30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC).....	2,482.01	349.47
33 14 13 13-0560 EA 36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC).....	3,065.78	437.34
33 14 13 13-0561 EA 42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC).....	4,505.83	504.61
33 14 13 13-0562 EA 48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC).....	5,770.60	648.98
33 14 13 13-0563 Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint (FLEX-TEND®) <small>(33 14 13 13-0002)</small>		
33 14 13 13-0564 EA 3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	3,020.08	46.64
33 14 13 13-0565 EA 4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	3,145.90	58.31
33 14 13 13-0566 EA 6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,564.98	86.16
33 14 13 13-0567 EA 8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	6,202.03	102.20
33 14 13 13-0568 EA 10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	7,816.00	113.44
33 14 13 13-0569 EA 12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	10,422.59	133.09
33 14 13 13-0570 EA 14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	12,837.55	149.24
33 14 13 13-0571 EA 16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	15,186.68	170.56
33 14 13 13-0572 EA 18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	17,127.44	238.78
33 14 13 13-0573 EA 20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	23,038.92	298.48
33 14 13 13-0574 EA 24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	31,921.20	397.97
33 14 13 13-0575 Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM Series) <small>(33 14 13 13-0002)</small>		
Note: Includes machined bolts and gasket.		
33 14 13 13-0576 EA 3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM).....	147.92	56.99
33 14 13 13-0577 EA 4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM).....	188.99	67.49
33 14 13 13-0578 EA 6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM).....	243.68	83.53
33 14 13 13-0579 EA 8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM).....	278.47	97.48
33 14 13 13-0580 EA 10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM).....	485.68	149.49
33 14 13 13-0581 EA 12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM).....	549.94	170.87
33 14 13 13-0582 Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100 Series) <small>(33 14 13 13-0002)</small>		
Note: Includes nuts, bolts and gasket.		
33 14 13 13-0583 EA 3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210300).....	211.59	56.99
33 14 13 13-0584 EA 4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400).....	262.66	67.49
33 14 13 13-0585 EA 6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600).....	362.12	83.53
33 14 13 13-0586 EA 8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800).....	519.97	97.48
33 14 13 13-0587 EA 10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000).....	754.57	149.49
33 14 13 13-0588 EA 12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200).....	935.87	170.87
33 14 13 13-0589 EA 14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400).....	1,429.72	183.92
33 14 13 13-0590 EA 16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600).....	1,994.65	199.32
33 14 13 13-0591 EA 18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800).....	2,258.21	239.19
33 14 13 13-0592 EA 20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000).....	2,494.73	265.64
33 14 13 13-0593 EA 24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400).....	3,015.71	306.50
33 14 13 13-0594 EA 30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000).....	3,875.75	367.56
33 14 13 13-0595 EA 36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600).....	5,775.12	459.98
33 14 13 13-0596 EA 42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200).....	14,960.30	530.74
33 14 13 13-0597 EA 48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800).....	19,162.43	682.59
33 14 13 13-0598 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping <small>(33 14 13 13-0001)</small>		
Note: See CSI section 33 14 13 13-0484 for bolts and gaskets.		
33 14 13 13-0599 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow <small>(33 14 13 13-0598)</small>		
33 14 13 13-0600 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	177.26	32.53
33 14 13 13-0601 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	212.09	38.95
33 14 13 13-0602 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	326.70	57.08
33 14 13 13-0603 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	437.93	67.95
33 14 13 13-0604 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	585.60	75.80
33 14 13 13-0605 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	736.37	88.72
33 14 13 13-0606 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	1,024.29	99.93
33 14 13 13-0607 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	1,236.90	113.71
33 14 13 13-0608 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	1,513.05	159.36
33 14 13 13-0609 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	1,886.39	198.99
33 14 13 13-0610 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	2,653.33	265.32
33 14 13 13-0611 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	4,129.84	284.27
33 14 13 13-0612 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	5,978.05	295.46
33 14 13 13-0613 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow.....	9,726.50	341.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0614 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	12,652.96	362.66
33 14 13 13-0615 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0598)</small>		
33 14 13 13-0616 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	170.65	32.53
33 14 13 13-0617 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	200.68	38.95
33 14 13 13-0618 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	306.87	57.08
33 14 13 13-0619 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	407.28	67.95
33 14 13 13-0620 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	520.71	75.80
33 14 13 13-0621 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	678.09	88.72
33 14 13 13-0622 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	899.33	99.93
33 14 13 13-0623 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,072.28	113.71
33 14 13 13-0624 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,288.96	159.36
33 14 13 13-0625 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,569.77	198.99
33 14 13 13-0626 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,071.15	265.32
33 14 13 13-0627 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,638.98	284.27
33 14 13 13-0628 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	4,948.88	295.46
33 14 13 13-0629 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	7,271.63	341.12
33 14 13 13-0630 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	9,246.42	362.66
33 14 13 13-0631 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow <small>(33 14 13 13-0598)</small>		
33 14 13 13-0632 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	138.81	32.53
33 14 13 13-0633 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	198.88	38.95
33 14 13 13-0634 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	299.66	57.08
33 14 13 13-0635 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	404.88	67.95
33 14 13 13-0636 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	520.11	75.80
33 14 13 13-0637 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	643.25	88.72
33 14 13 13-0638 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	904.13	99.93
33 14 13 13-0639 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,050.65	113.71
33 14 13 13-0640 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,283.55	159.36
33 14 13 13-0641 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,619.64	198.99
33 14 13 13-0642 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,031.50	265.32
33 14 13 13-0643 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,264.68	284.27
33 14 13 13-0644 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,378.12	295.46
33 14 13 13-0645 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	6,196.80	341.12
33 14 13 13-0646 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	7,872.39	362.66
33 14 13 13-0647 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <small>(33 14 13 13-0598)</small>		
33 14 13 13-0648 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	138.81	32.53
33 14 13 13-0649 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	231.92	38.95
33 14 13 13-0650 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	302.07	57.08
33 14 13 13-0651 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	394.07	67.95
33 14 13 13-0652 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	518.91	75.80
33 14 13 13-0653 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	627.03	88.72
33 14 13 13-0654 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	967.22	99.93
33 14 13 13-0655 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,080.09	113.71
33 14 13 13-0656 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,454.18	159.36
33 14 13 13-0657 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,567.97	198.99
33 14 13 13-0658 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,032.10	265.32
33 14 13 13-0659 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,304.34	284.27
33 14 13 13-0660 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,264.57	295.46
33 14 13 13-0661 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	6,034.59	341.12
33 14 13 13-0662 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	7,829.13	362.66
33 14 13 13-0663 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <small>(33 14 13 13-0598)</small>		
33 14 13 13-0664 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	158.64	32.53
33 14 13 13-0665 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	225.91	38.95
33 14 13 13-0666 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	349.53	57.08
33 14 13 13-0667 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	466.76	67.95
33 14 13 13-0668 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	627.65	75.80
33 14 13 13-0669 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	782.63	88.72
33 14 13 13-0670 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,356.54	99.93
33 14 13 13-0671 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	2,082.22	113.71
33 14 13 13-0672 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	2,404.04	159.36



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 14 13	13-0673	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	2,783.99	198.99
	33 14 13	13-0674	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	3,052.26	265.32
33 14 13	13-0675			Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0598)</small>		
	33 14 13	13-0676	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	158.64	32.53
	33 14 13	13-0677	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	203.08	38.95
	33 14 13	13-0678	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	316.49	57.08
	33 14 13	13-0679	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	436.72	67.95
	33 14 13	13-0680	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	566.97	75.80
	33 14 13	13-0681	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	729.76	88.72
	33 14 13	13-0682	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	957.00	99.93
	33 14 13	13-0683	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,144.98	113.71
	33 14 13	13-0684	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,097.63	159.36
	33 14 13	13-0685	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,227.64	198.99
	33 14 13	13-0686	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,368.55	265.32
33 14 13	13-0687			Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee <small>(33 14 13 13-0598)</small>		
	33 14 13	13-0688	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	225.93	48.79
	33 14 13	13-0689	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	247.97	55.01
	33 14 13	13-0690	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	261.21	57.08
	33 14 13	13-0691	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	364.37	72.36
	33 14 13	13-0692	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	392.32	75.20
	33 14 13	13-0693	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	417.92	84.26
	33 14 13	13-0694	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	477.14	86.98
	33 14 13	13-0695	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	517.77	96.03
	33 14 13	13-0696	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	566.50	102.38
	33 14 13	13-0697	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	621.25	93.90
	33 14 13	13-0698	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	627.57	102.50
	33 14 13	13-0699	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	677.64	108.54
	33 14 13	13-0700	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	728.62	113.71
	33 14 13	13-0701	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	741.22	105.09
	33 14 13	13-0702	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	754.13	113.71
	33 14 13	13-0703	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	812.62	119.73
	33 14 13	13-0704	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	926.08	124.91
	33 14 13	13-0705	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	932.90	130.94
	33 14 13	13-0706	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,043.99	132.66
	33 14 13	13-0707	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,125.32	138.69
	33 14 13	13-0708	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,345.72	143.86
	33 14 13	13-0709	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,418.62	149.89
	33 14 13	13-0710	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,331.33	159.36
	33 14 13	13-0711	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,249.25	159.36
	33 14 13	13-0712	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,314.43	164.53
	33 14 13	13-0713	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,554.06	170.56
	33 14 13	13-0714	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,471.34	175.73
	33 14 13	13-0715	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,882.73	185.21
	33 14 13	13-0716	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,729.15	198.99
	33 14 13	13-0717	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,635.84	204.15
	33 14 13	13-0718	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,720.77	209.32
	33 14 13	13-0719	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,827.02	214.49
	33 14 13	13-0720	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,925.75	220.52
	33 14 13	13-0721	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,981.45	230.00
	33 14 13	13-0722	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,115.07	242.92
	33 14 13	13-0723	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,356.08	265.32
	33 14 13	13-0724	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,929.01	292.02
	33 14 13	13-0725	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,962.27	298.05
	33 14 13	13-0726	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,136.41	303.22
	33 14 13	13-0727	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,233.94	309.25
	33 14 13	13-0728	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,261.41	318.72
	33 14 13	13-0729	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,247.22	331.64
	33 14 13	13-0730	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,814.47	354.04
	33 14 13	13-0731	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,480.13	397.97
	33 14 13	13-0732	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,362.97	379.88
	33 14 13	13-0733	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,387.21	386.77
	33 14 13	13-0734	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,429.17	391.08

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0735 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,489.45	397.11
33 14 13 13-0736 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,793.89	406.59
33 14 13 13-0737 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,910.69	419.50
33 14 13 13-0738 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,520.00	441.91
33 14 13 13-0739 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,659.07	486.70
33 14 13 13-0740 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,494.53	530.63
33 14 13 13-0741 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,950.26	442.76
33 14 13 13-0742 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,783.44	448.79
33 14 13 13-0743 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,982.22	453.97
33 14 13 13-0744 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,181.89	459.99
33 14 13 13-0745 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,466.51	469.47
33 14 13 13-0746 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,776.15	624.52
33 14 13 13-0747 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,775.04	504.78
33 14 13 13-0748 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,806.57	548.72
33 14 13 13-0749 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,025.36	592.65
33 14 13 13-0750 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,929.55	624.52
33 14 13 13-0751 EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,110.70	497.89
33 14 13 13-0752 EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,555.20	503.06
33 14 13 13-0753 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,797.53	509.09
33 14 13 13-0754 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,973.40	518.56
33 14 13 13-0755 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,153.27	531.49
33 14 13 13-0756 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,497.02	553.88
33 14 13 13-0757 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,874.61	597.82
33 14 13 13-0758 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,492.32	641.75
33 14 13 13-0759 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,289.57	697.74
33 14 13 13-0760 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,334.87	697.74
33 14 13 13-0761 EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,277.77	536.66
33 14 13 13-0762 EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,463.25	545.28
33 14 13 13-0763 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,373.70	559.05
33 14 13 13-0764 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,778.46	581.45
33 14 13 13-0765 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,845.45	625.38
33 14 13 13-0766 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,923.56	669.32
33 14 13 13-0767 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,117.03	701.18
33 14 13 13-0768 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,416.79	725.31
33 14 13 13-0769 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,067.20	739.09
33 14 13 13-0770 EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,782.28	579.73
33 14 13 13-0771 EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,974.97	589.20
33 14 13 13-0772 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,248.56	602.99
33 14 13 13-0773 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,534.04	624.52
33 14 13 13-0774 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,854.56	669.32
33 14 13 13-0775 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,954.98	713.24
33 14 13 13-0776 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,818.92	744.25
33 14 13 13-0777 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,448.66	769.23
33 14 13 13-0778 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,954.35	783.02
33 14 13 13-0779 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	17,063.87	804.55

33 14 13 13-0780 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Laterals)

(33 14 13 13-0598)

33 14 13 13-0781 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	253.25	54.53
33 14 13 13-0782 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	274.28	54.53
33 14 13 13-0783 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	316.49	57.08
33 14 13 13-0784 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	356.56	72.36
33 14 13 13-0785 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	393.52	75.20
33 14 13 13-0786 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	474.99	84.26
33 14 13 13-0787 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	605.11	86.98
33 14 13 13-0788 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	570.64	96.03
33 14 13 13-0789 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	636.79	102.38
33 14 13 13-0790 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	860.97	93.90
33 14 13 13-0791 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	900.33	102.50
33 14 13 13-0792 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,002.08	108.54
33 14 13 13-0793 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,090.30	113.71
33 14 13 13-0794 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,043.43	105.09
33 14 13 13-0795 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,178.90	113.71
33 14 13 13-0796 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,383.38	119.73
33 14 13 13-0797 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,388.70	124.91
33 14 13 13-0798 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,293.37	130.94
33 14 13 13-0799 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,519.83	132.66
33 14 13 13-0800 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,736.33	138.69
33 14 13 13-0801 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,258.34	143.86
33 14 13 13-0802 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,418.35	149.89
33 14 13 13-0803 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,366.51	159.36
33 14 13 13-0804 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,598.40	159.36
33 14 13 13-0805 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,757.22	164.53
33 14 13 13-0806 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,066.54	170.56
33 14 13 13-0807 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,132.22	175.73
33 14 13 13-0808 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,616.31	185.21
33 14 13 13-0809 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,492.17	198.99
33 14 13 13-0810 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,248.65	204.15
33 14 13 13-0811 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,417.70	209.32
33 14 13 13-0812 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,581.02	214.49



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0813	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,757.86	220.52
33 14 13 13-0814	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,791.33	230.00
33 14 13 13-0815	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,831.22	242.92
33 14 13 13-0816	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,600.01	265.32
33 14 13 13-0817	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,687.22	292.02
33 14 13 13-0818	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,745.72	298.05
33 14 13 13-0819	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,006.37	303.22
33 14 13 13-0820	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,264.91	309.25
33 14 13 13-0821	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,300.19	318.72
33 14 13 13-0822	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,343.08	331.64
33 14 13 13-0823	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,861.07	354.04
33 14 13 13-0824	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,682.93	397.97
33 14 13 13-0825	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,276.79	379.88
33 14 13 13-0826	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,319.65	385.92
33 14 13 13-0827	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,681.24	391.08
33 14 13 13-0828	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,847.86	397.11
33 14 13 13-0829	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,421.46	406.59
33 14 13 13-0830	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,899.94	419.50
33 14 13 13-0831	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,471.39	441.91
33 14 13 13-0832	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,011.80	486.70
33 14 13 13-0833	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,373.84	530.63
33 14 13 13-0834	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,628.62	442.76
33 14 13 13-0835	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,412.27	448.79
33 14 13 13-0836	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,834.55	453.97
33 14 13 13-0837	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,257.72	459.99
33 14 13 13-0838	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,858.36	469.47
33 14 13 13-0839	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,506.24	482.39
33 14 13 13-0840	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,750.26	504.78
33 14 13 13-0841	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,111.04	548.72
33 14 13 13-0842	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,601.38	592.65
33 14 13 13-0843	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	11,482.74	624.52
33 14 13 13-0844	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	12,528.63	509.09
33 14 13 13-0845	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	13,015.71	518.56
33 14 13 13-0846	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	13,502.59	531.49
33 14 13 13-0847	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	14,440.53	553.88
33 14 13 13-0848	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	15,415.31	597.82
33 14 13 13-0849	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	17,091.03	641.75
33 14 13 13-0850	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	19,127.73	673.63
33 14 13 13-0851	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	22,785.91	697.74
33 14 13 13-0852	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	20,054.78	625.38
33 14 13 13-0853	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	20,566.74	669.32
33 14 13 13-0854	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	21,963.60	701.18
33 14 13 13-0855	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	25,087.06	725.31
33 14 13 13-0856	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	29,543.54	739.09
33 14 13 13-0857	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	19,804.94	669.32
33 14 13 13-0858	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	22,413.11	713.24
33 14 13 13-0859	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	23,881.45	744.25
33 14 13 13-0860	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	27,191.76	769.23
33 14 13 13-0861	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	35,466.33	783.02
33 14 13 13-0862	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	38,916.17	804.55
33 14 13 13-0863	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee <small>(33 14 13 13-0598)</small>			
33 14 13 13-0864	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	440.15	84.26
33 14 13 13-0865	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	540.60	96.03
33 14 13 13-0866	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	747.73	102.50
33 14 13 13-0867	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	857.47	113.71
33 14 13 13-0868	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,120.29	132.66
33 14 13 13-0869	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,362.88	159.36
33 14 13 13-0870	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,620.82	204.15
33 14 13 13-0871	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	2,192.76	292.02
33 14 13 13-0872	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	2,575.12	379.88
33 14 13 13-0873	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	4,514.41	442.76
33 14 13 13-0874	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross <small>(33 14 13 13-0598)</small>			
33 14 13 13-0875	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	260.19	65.06
33 14 13 13-0876	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	316.95	70.80
33 14 13 13-0877	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	383.30	71.57

33 Utilities

33 10 Water Utilities

33 14 Water Utility Transmission and Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0878 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	416.23	88.73
33 14 13 13-0879 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	480.81	96.03
33 14 13 13-0880 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	541.68	119.59
33 14 13 13-0881 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	513.03	105.10
33 14 13 13-0882 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	608.75	128.65
33 14 13 13-0883 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	610.35	137.72
33 14 13 13-0884 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	593.13	110.26
33 14 13 13-0885 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	672.05	132.66
33 14 13 13-0886 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	785.91	141.27
33 14 13 13-0887 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	850.38	151.61
33 14 13 13-0888 EA 12 x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	745.65	119.73
33 14 13 13-0889 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	866.02	142.13
33 14 13 13-0890 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	937.23	150.74
33 14 13 13-0891 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,082.21	161.08
33 14 13 13-0892 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,225.71	170.56
33 14 13 13-0893 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,252.23	155.92
33 14 13 13-0894 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,469.43	164.53
33 14 13 13-0895 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,509.87	175.73
33 14 13 13-0896 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,593.30	184.34
33 14 13 13-0897 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,761.42	198.99
33 14 13 13-0898 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,402.52	176.59
33 14 13 13-0899 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,592.09	184.34
33 14 13 13-0900 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,899.27	195.54
33 14 13 13-0901 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,113.68	205.02
33 14 13 13-0902 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,545.56	218.79
33 14 13 13-0903 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,664.60	238.61
33 14 13 13-0904 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,350.04	208.46
33 14 13 13-0905 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,483.73	217.07
33 14 13 13-0906 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,600.46	227.41
33 14 13 13-0907 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,817.27	236.89
33 14 13 13-0908 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,280.98	250.67
33 14 13 13-0909 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,493.15	270.48
33 14 13 13-0910 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,662.64	303.22
33 14 13 13-0911 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,954.36	261.86
33 14 13 13-0912 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,089.25	269.62
33 14 13 13-0913 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,184.96	280.82
33 14 13 13-0914 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,399.96	290.30
33 14 13 13-0915 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,462.34	304.08
33 14 13 13-0916 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,177.38	323.89
33 14 13 13-0917 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,346.87	355.76
33 14 13 13-0918 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,709.66	409.17
33 14 13 13-0919 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,021.04	327.34
33 14 13 13-0920 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,115.35	335.95
33 14 13 13-0921 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,271.48	346.29
33 14 13 13-0922 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,406.58	355.76
33 14 13 13-0923 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,488.18	369.54
33 14 13 13-0924 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,660.10	389.36
33 14 13 13-0925 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,139.32	422.09
33 14 13 13-0926 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,481.09	474.64
33 14 13 13-0927 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,145.24	540.10
33 14 13 13-0928 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,185.08	435.01
33 14 13 13-0929 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,309.01	445.35
33 14 13 13-0930 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,430.30	454.82
33 14 13 13-0931 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,575.59	468.61
33 14 13 13-0932 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,744.50	489.28
33 14 13 13-0933 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,947.03	521.15
33 14 13 13-0934 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,211.29	573.70
33 14 13 13-0935 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,221.85	640.03
33 14 13 13-0936 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	10,605.72	739.09
33 14 13 13-0937 EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	8,565.62	471.19
33 14 13 13-0938 EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	8,688.37	481.52
33 14 13 13-0939 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	8,794.62	491.01
33 14 13 13-0940 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	8,923.08	505.65
33 14 13 13-0941 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,075.78	525.46
33 14 13 13-0942 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,262.09	557.33
33 14 13 13-0943 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,511.33	610.74
33 14 13 13-0944 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,932.17	676.20
33 14 13 13-0945 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	13,311.89	775.26
33 14 13 13-0946 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	14,606.79	812.31
33 14 13 13-0947 EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	11,437.77	512.53
33 14 13 13-0948 EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	11,678.58	526.32
33 14 13 13-0949 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	11,827.07	547.00
33 14 13 13-0950 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	12,036.20	578.86
33 14 13 13-0951 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	12,409.81	632.28
33 14 13 13-0952 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	13,165.89	697.74
33 14 13 13-0953 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,968.86	796.80
33 14 13 13-0954 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,755.60	832.99
33 14 13 13-0955 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	22,221.77	854.52
33 14 13 13-0956 EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,417.38	596.96
33 14 13 13-0957 EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,526.62	610.74
33 14 13 13-0958 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,673.32	630.55



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0959 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	15,839.18	662.42
33 14 13 13-0960 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	16,066.81	715.83
33 14 13 13-0961 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	16,443.79	781.30
33 14 13 13-0962 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	17,429.32	880.36
33 14 13 13-0963 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,277.62	917.40
33 14 13 13-0964 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,240.78	938.93
33 14 13 13-0965 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	29,022.68	1,022.49
33 14 13 13-0966 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducers <small>(33 14 13 13-0598)</small>		
33 14 13 13-0967 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	176.79	35.39
33 14 13 13-0968 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	243.25	44.37
33 14 13 13-0969 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	266.23	47.11
33 14 13 13-0970 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	342.68	53.45
33 14 13 13-0971 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	361.59	62.52
33 14 13 13-0972 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	412.44	55.99
33 14 13 13-0973 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	436.16	64.61
33 14 13 13-0974 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	456.20	70.64
33 14 13 13-0975 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	474.51	62.02
33 14 13 13-0976 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	526.48	70.64
33 14 13 13-0977 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	538.70	75.80
33 14 13 13-0978 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	564.45	81.83
33 14 13 13-0979 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	800.28	80.11
33 14 13 13-0980 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	808.90	85.28
33 14 13 13-0981 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	716.89	91.31
33 14 13 13-0982 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	734.52	96.47
33 14 13 13-0983 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	957.33	93.03
33 14 13 13-0984 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	935.30	99.06
33 14 13 13-0985 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	887.14	104.23
33 14 13 13-0986 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	881.94	109.40
33 14 13 13-0987 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	993.53	118.88
33 14 13 13-0988 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,056.15	120.60
33 14 13 13-0989 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,183.44	126.63
33 14 13 13-0990 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,139.18	131.79
33 14 13 13-0991 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,349.30	141.27
33 14 13 13-0992 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,205.33	155.05
33 14 13 13-0993 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,409.72	165.39
33 14 13 13-0994 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,424.05	170.56
33 14 13 13-0995 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,310.10	176.59
33 14 13 13-0996 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,316.55	186.06
33 14 13 13-0997 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,298.15	198.99
33 14 13 13-0998 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,524.74	221.38
33 14 13 13-0999 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,785.42	220.52
33 14 13 13-1000 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,816.50	230.00
33 14 13 13-1001 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,855.78	242.92
33 14 13 13-1002 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,847.46	265.32

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1003 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,133.75	309.25
33 14 13 13-1004 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,158.90	273.93
33 14 13 13-1005 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,301.39	296.33
33 14 13 13-1006 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,222.98	341.12
33 14 13 13-1007 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,805.52	385.05
33 14 13 13-1008 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,169.14	365.24
33 14 13 13-1009 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,928.92	409.17
33 14 13 13-1010 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,197.46	441.04
33 14 13 13-1011 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,993.13	312.69
33 14 13 13-1012 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,976.40	335.09
33 14 13 13-1013 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,024.76	379.02
33 14 13 13-1014 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,283.19	422.95
33 14 13 13-1015 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,217.96	454.82
33 14 13 13-1016 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,462.99	478.95
33 14 13 13-1017 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,507.19	334.23
33 14 13 13-1018 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,289.80	356.63
33 14 13 13-1019 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,971.07	400.55
33 14 13 13-1020 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,199.46	445.35
33 14 13 13-1021 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,583.70	476.36
33 14 13 13-1022 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,491.34	500.48
33 14 13 13-1023 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,211.45	514.27
33 14 13 13-1024 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps <small>(33 14 13 13-0598)</small>		
33 14 13 13-1025 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	195.56	74.75
33 14 13 13-1026 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	233.81	87.88
33 14 13 13-1027 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	327.11	109.63
33 14 13 13-1028 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	421.14	125.03
33 14 13 13-1029 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	578.53	189.51
33 14 13 13-1030 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	703.76	206.74
33 14 13 13-1031 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	793.97	227.41
33 14 13 13-1032 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	947.00	252.39
33 14 13 13-1033 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,100.00	284.27
33 14 13 13-1034 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,312.32	324.75
33 14 13 13-1035 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,652.71	379.02
33 14 13 13-1036 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	2,812.96	454.82
33 14 13 13-1037 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	4,469.81	568.53
33 14 13 13-1038 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	6,332.75	682.23
33 14 13 13-1039 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	7,497.19	758.04
33 14 13 13-1040 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug <small>(33 14 13 13-0598)</small>		
33 14 13 13-1041 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	196.16	74.75
33 14 13 13-1042 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	239.82	87.88
33 14 13 13-1043 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	342.74	109.63
33 14 13 13-1044 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	436.76	125.03
33 14 13 13-1045 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	668.05	189.51
33 14 13 13-1046 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	724.19	206.74
33 14 13 13-1047 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	924.34	227.41
33 14 13 13-1048 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,097.80	252.39
33 14 13 13-1049 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,292.86	284.27
33 14 13 13-1050 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,573.07	324.75
33 14 13 13-1051 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,024.00	379.02
33 14 13 13-1052 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	3,326.04	454.82
33 14 13 13-1053 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	4,788.84	568.53
33 14 13 13-1054 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	6,373.00	682.23
33 14 13 13-1055 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	8,350.93	758.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1056 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters <small>(33 14 13 13-0598)</small>		
33 14 13 13-1057 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	276.08	113.61
33 14 13 13-1058 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	350.12	131.37
33 14 13 13-1059 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	468.44	164.89
33 14 13 13-1060 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	592.96	187.54
33 14 13 13-1061 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	880.11	284.27
33 14 13 13-1062 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,027.40	310.11
33 14 13 13-1063 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,291.87	341.12
33 14 13 13-1064 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,459.85	379.02
33 14 13 13-1065 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,858.47	426.40
33 14 13 13-1066 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,149.63	487.55
33 14 13 13-1067 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,585.11	568.53
33 14 13 13-1068 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	3,896.50	682.23
33 14 13 13-1069 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	5,239.98	852.79
33 14 13 13-1070 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	6,980.63	974.25
33 14 13 13-1071 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	8,616.40	1,137.06
33 14 13 13-1072 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves <small>(33 14 13 13-0598)</small>		
33 14 13 13-1073 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	283.29	113.61
33 14 13 13-1074 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	341.11	131.37
33 14 13 13-1075 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	478.66	164.89
33 14 13 13-1076 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	620.60	187.54
33 14 13 13-1077 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	841.66	284.27
33 14 13 13-1078 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	991.35	310.11
33 14 13 13-1079 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	1,214.97	341.12
33 14 13 13-1080 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	1,418.99	379.02
33 14 13 13-1081 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	1,673.43	426.40
33 14 13 13-1082 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	1,941.15	487.55
33 14 13 13-1083 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	2,394.05	568.53
33 14 13 13-1084 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	3,797.37	682.23
33 14 13 13-1085 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	4,908.94	852.79
33 14 13 13-1086 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	6,280.81	973.39
33 14 13 13-1087 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	9,082.02	1,137.06
33 14 13 13-1088 Push-On Joint Ductile Iron Piping <small>(33 14 13 13-0001)</small>		
33 14 13 13-1089 Push-On Joint Ductile Iron Pipe <small>(33 14 13 13-1088)</small>		
33 14 13 13-1090 LF 4", Class 50, Push-On Joint Ductile Iron Pipe.....	23.97	7.47
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	8.86	
For Cement Mortar Lining (CML), Add	1.27	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	6.83	
For Fusion Bonded Epoxy Lining (206N), Add	2.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	0.95	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.20	
For Class 51, Add	1.23	
For Class 52, Add	2.75	
For Class 53, Add	7.20	
For Class 54, Add	10.26	
For Class 55, Add	11.82	
For Class 56, Add	13.35	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1091 LF 6", Class 50, Push-On Joint Ductile Iron Pipe.....	26.30	8.24
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	9.72	
For Cement Mortar Lining (CML), Add	1.39	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	7.50	
For Fusion Bonded Epoxy Lining (206N), Add	2.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.04	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.32	
For Class 51, Add	1.35	
For Class 52, Add	3.02	
For Class 53, Add	7.91	
For Class 54, Add	11.27	
For Class 55, Add	12.98	
For Class 56, Add	14.66	
33 14 13 13-1092 LF 8", Class 50, Push-On Joint Ductile Iron Pipe.....	32.57	9.06
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.29	
For Cement Mortar Lining (CML), Add	1.90	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	10.25	
For Fusion Bonded Epoxy Lining (206N), Add	3.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.42	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.63	
For Class 51, Add	1.81	
For Class 52, Add	4.04	
For Class 53, Add	10.68	
For Class 54, Add	15.23	
For Class 55, Add	17.52	
For Class 56, Add	19.78	
33 14 13 13-1093 LF 10", Class 50, Push-On Joint Ductile Iron Pipe.....	46.16	12.84
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	16.07	
For Cement Mortar Lining (CML), Add	2.68	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.39	
For Fusion Bonded Epoxy Lining (206N), Add	4.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.01	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.31	
For Class 51, Add	2.55	
For Class 52, Add	5.71	
For Class 53, Add	15.08	
For Class 54, Add	21.49	
For Class 55, Add	24.74	
For Class 56, Add	27.93	
33 14 13 13-1094 LF 12", Class 50, Push-On Joint Ductile Iron Pipe.....	53.46	14.22
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	15.96	
For Cement Mortar Lining (CML), Add	3.19	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	12.77	
For Fusion Bonded Epoxy Lining (206N), Add	5.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.39	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.67	
For Class 51, Add	3.02	
For Class 52, Add	6.77	
For Class 53, Add	17.91	
For Class 54, Add	25.54	
For Class 55, Add	29.39	
For Class 56, Add	33.17	
33 14 13 13-1095 LF 14", Class 50, Push-On Joint Ductile Iron Pipe.....	64.89	16.03
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	17.90	
For Cement Mortar Lining (CML), Add	4.07	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.83	
For Fusion Bonded Epoxy Lining (206N), Add	7.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.05	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.24	
For Class 51, Add	3.81	
For Class 52, Add	8.54	
For Class 53, Add	22.71	
For Class 54, Add	32.39	
For Class 55, Add	37.26	
For Class 56, Add	42.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1096 LF 16", Class 50, Push-On Joint Ductile Iron Pipe.....	76.79	18.26
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	20.14	
For Cement Mortar Lining (CML), Add	4.91	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	15.23	
For Fusion Bonded Epoxy Lining (206N), Add	8.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.68	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.84	
For Class 51, Add	4.59	
For Class 52, Add	10.28	
For Class 53, Add	27.37	
For Class 54, Add	39.04	
For Class 55, Add	44.89	
For Class 56, Add	50.64	
33 14 13 13-1097 LF 18", Class 50, Push-On Joint Ductile Iron Pipe.....	89.36	21.36
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	23.39	
For Cement Mortar Lining (CML), Add	5.71	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.69	
For Fusion Bonded Epoxy Lining (206N), Add	10.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.28	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.47	
For Class 51, Add	5.33	
For Class 52, Add	11.94	
For Class 53, Add	31.79	
For Class 54, Add	45.35	
For Class 55, Add	52.15	
For Class 56, Add	58.83	
33 14 13 13-1098 LF 20", Class 50, Push-On Joint Ductile Iron Pipe.....	103.30	25.58
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.53	
For Cement Mortar Lining (CML), Add	6.45	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	18.07	
For Fusion Bonded Epoxy Lining (206N), Add	11.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.84	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.17	
For Class 51, Add	6.05	
For Class 52, Add	13.56	
For Class 53, Add	36.04	
For Class 54, Add	51.40	
For Class 55, Add	59.12	
For Class 56, Add	66.70	
33 14 13 13-1099 LF 24", Class 50, Push-On Joint Ductile Iron Pipe.....	130.61	31.95
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	25.46	
For Cement Mortar Lining (CML), Add	8.21	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.25	
For Fusion Bonded Epoxy Lining (206N), Add	14.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.16	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.53	
For Class 51, Add	7.69	
For Class 52, Add	17.23	
For Class 53, Add	45.83	
For Class 54, Add	65.36	
For Class 55, Add	75.17	
For Class 56, Add	84.81	
33 14 13 13-1100 LF 30", Class 50, Push-On Joint Ductile Iron Pipe.....	153.89	34.11
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	31.69	
For Cement Mortar Lining (CML), Add	10.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	18.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.67	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.69	
For Class 51, Add	9.47	
For Class 52, Add	21.23	
For Class 53, Add	56.71	
For Class 54, Add	80.92	
For Class 55, Add	93.02	
For Class 56, Add	104.91	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1101 LF 36", Class 50, Push-On Joint Ductile Iron Pipe.....	189.52	36.26
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	41.71	
For Cement Mortar Lining (CML), Add	13.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.09	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.48	
For Class 51, Add	12.30	
For Class 52, Add	27.63	
For Class 53, Add	74.17	
For Class 54, Add	105.87	
For Class 55, Add	121.65	
For Class 56, Add	137.13	
33 14 13 13-1102 LF 42", Class 50, Push-On Joint Ductile Iron Pipe.....	229.72	38.42
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	53.19	
For Cement Mortar Lining (CML), Add	17.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	30.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.87	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-11.49	
For Class 51, Add	15.53	
For Class 52, Add	34.93	
For Class 53, Add	94.13	
For Class 54, Add	134.41	
For Class 55, Add	154.37	
For Class 56, Add	173.97	
33 14 13 13-1103 LF 48", Class 50, Push-On Joint Ductile Iron Pipe.....	275.32	40.48
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	66.31	
For Cement Mortar Lining (CML), Add	21.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	38.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.04	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-13.77	
For Class 51, Add	19.23	
For Class 52, Add	43.27	
For Class 53, Add	116.93	
For Class 54, Add	167.00	
For Class 55, Add	191.75	
For Class 56, Add	216.05	
33 14 13 13-1104 LF 54", Class 50, Push-On Joint Ductile Iron Pipe.....	347.16	42.64
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	87.59	
For Cement Mortar Lining (CML), Add	28.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	50.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.19	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-17.36	
For Class 51, Add	25.19	
For Class 52, Add	56.74	
For Class 53, Add	153.84	
For Class 54, Add	219.78	
For Class 55, Add	252.26	
For Class 56, Add	284.15	
33 14 13 13-1105 Push-On Joint Ductile Iron 90 Degree Elbow (33 14 13 13-1088)		
33 14 13 13-1106 EA 4" 90 Degree Elbow, Push-On Joint Ductile Iron	153.03	29.17
For Cement Mortar Lining (CML), Add	10.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	19.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1107 EA 6" 90 Degree Elbow, Push-On Joint Ductile Iron	222.10	43.03
For Cement Mortar Lining (CML), Add	15.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.76	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1108 EA 8" 90 Degree Elbow, Push-On Joint Ductile Iron	295.06	51.10
For Cement Mortar Lining (CML), Add	21.76	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	39.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.32	
Note: ANSI/AWWA C151/A21.51		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1109 EA 10" 90 Degree Elbow, Push-On Joint Ductile Iron	446.17	56.68
For Cement Mortar Lining (CML), Add	32.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	59.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1110 EA 12" 90 Degree Elbow, Push-On Joint Ductile Iron	572.64	66.50
For Cement Mortar Lining (CML), Add	43.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	78.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1111 EA 14" 90 Degree Elbow, Push-On Joint Ductile Iron	1,108.68	74.59
For Cement Mortar Lining (CML), Add	95.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	171.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	71.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1112 EA 16" 90 Degree Elbow, Push-On Joint Ductile Iron	1,253.72	85.28
For Cement Mortar Lining (CML), Add	107.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	193.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	80.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1113 EA 18" 90 Degree Elbow, Push-On Joint Ductile Iron	1,947.10	119.39
For Cement Mortar Lining (CML), Add	170.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	306.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	127.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1114 EA 20" 90 Degree Elbow, Push-On Joint Ductile Iron	2,195.04	150.49
For Cement Mortar Lining (CML), Add	189.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	340.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	142.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1115 EA 24" 90 Degree Elbow, Push-On Joint Ductile Iron	2,740.93	188.13
For Cement Mortar Lining (CML), Add	236.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	425.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	177.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1116 Push-On Joint Ductile Iron 45 Degree Elbow <small>(33 14 13 13-1088)</small>		
33 14 13 13-1117 EA 4" 45 Degree Elbow, Push-On Joint Ductile Iron	128.28	29.17
For Cement Mortar Lining (CML), Add	8.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	15.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1118 EA 6" 45 Degree Elbow, Push-On Joint Ductile Iron	188.83	43.03
For Cement Mortar Lining (CML), Add	12.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	22.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1119 EA 8" 45 Degree Elbow, Push-On Joint Ductile Iron	259.26	51.10
For Cement Mortar Lining (CML), Add	18.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	32.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1120 EA 10" 45 Degree Elbow, Push-On Joint Ductile Iron	396.74	56.68
For Cement Mortar Lining (CML), Add	27.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	50.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1121 EA 12" 45 Degree Elbow, Push-On Joint Ductile Iron	509.66	66.50
For Cement Mortar Lining (CML), Add	37.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	67.00	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.92	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1122 EA 14" 45 Degree Elbow, Push-On Joint Ductile Iron	715.42	74.59
For Cement Mortar Lining (CML), Add	56.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	101.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	42.09	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1123 EA 16" 45 Degree Elbow, Push-On Joint Ductile Iron	1,047.80	85.28
For Cement Mortar Lining (CML), Add	87.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	156.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	65.37	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1124 EA 18" 45 Degree Elbow, Push-On Joint Ductile Iron	1,214.55	119.39
For Cement Mortar Lining (CML), Add	96.79	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	174.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	72.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1125 EA 20" 45 Degree Elbow, Push-On Joint Ductile Iron	1,693.50	150.49
For Cement Mortar Lining (CML), Add	139.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	250.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	104.44	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1126 EA 24" 45 Degree Elbow, Push-On Joint Ductile Iron	2,102.14	188.13
For Cement Mortar Lining (CML), Add	172.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	310.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	129.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1127 Push-On Joint Ductile Iron Tee (33 14 13 13-1088)		
33 14 13 13-1128 EA 4" Tee, Push-On Joint Ductile Iron	233.50	43.03
For Cement Mortar Lining (CML), Add	16.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	30.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1129 EA 6" Tee, Push-On Joint Ductile Iron	326.09	63.24
For Cement Mortar Lining (CML), Add	23.02	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	41.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1130 EA 8" Tee, Push-On Joint Ductile Iron	442.65	76.65
For Cement Mortar Lining (CML), Add	32.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	58.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1131 EA 10" Tee, Push-On Joint Ductile Iron	642.84	86.14
For Cement Mortar Lining (CML), Add	51.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	92.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1132 EA 12" Tee, Push-On Joint Ductile Iron	798.46	99.32
For Cement Mortar Lining (CML), Add	64.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	116.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1133 EA 14" Tee, Push-On Joint Ductile Iron	1,273.49	119.39
For Cement Mortar Lining (CML), Add	109.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	196.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	81.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1134 EA 16" Tee, Push-On Joint Ductile Iron	1,833.61	149.29
For Cement Mortar Lining (CML), Add	160.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	289.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	120.56	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1135	EA			18" Tee, Push-On Joint Ductile Iron.....	2,308.19	199.16
				For Cement Mortar Lining (CML), Add	200.64	
				Note: ANSI/AWWA C104/A21.4		
				For Fusion Bonded Epoxy Lining (206N), Add	361.16	
				Note: ANSI/AWWA C104/A21.4		
				For Bituminous Or Coal Tar Coating, 1 Mil, Add	150.48	
				Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1136	EA			20" Tee, Push-On Joint Ductile Iron.....	2,722.54	243.00
				For Cement Mortar Lining (CML), Add	235.44	
				Note: ANSI/AWWA C104/A21.4		
				For Fusion Bonded Epoxy Lining (206N), Add	423.79	
				Note: ANSI/AWWA C104/A21.4		
				For Bituminous Or Coal Tar Coating, 1 Mil, Add	176.58	
				Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1137	EA			24" Tee, Push-On Joint Ductile Iron.....	3,561.42	303.74
				For Cement Mortar Lining (CML), Add	310.13	
				Note: ANSI/AWWA C104/A21.4		
				For Fusion Bonded Epoxy Lining (206N), Add	558.23	
				Note: ANSI/AWWA C104/A21.4		
				For Bituminous Or Coal Tar Coating, 1 Mil, Add	232.59	
				Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1138				Flanged End x Push-On Joint Ductile Iron Adapters (33 14 13 13-1088)		
33 14 13 13-1139	EA			4" Flanged End x Push-On Joint Adapter, Ductile Iron	230.25	101.20
				For Cement Mortar Lining (CML), Add	7.69	
				Note: ANSI/AWWA C104/A21.4		
				For Fusion Bonded Epoxy Lining (206N), Add	13.85	
				Note: ANSI/AWWA C104/A21.4		
				For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.77	
				Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1140	EA			6" Flanged End x Push-On Joint Adapter, Ductile Iron	283.08	125.30
				For Cement Mortar Lining (CML), Add	9.33	
				Note: ANSI/AWWA C104/A21.4		
				For Fusion Bonded Epoxy Lining (206N), Add	16.79	
				Note: ANSI/AWWA C104/A21.4		
				For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.99	
				Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1141	EA			8" Flanged End x Push-On Joint Adapter, Ductile Iron	355.50	146.14
				For Cement Mortar Lining (CML), Add	13.40	
				Note: ANSI/AWWA C104/A21.4		
				For Fusion Bonded Epoxy Lining (206N), Add	24.13	
				Note: ANSI/AWWA C104/A21.4		
				For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.05	
				Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1142	EA			10" Flanged End x Push-On Joint Adapter, Ductile Iron	497.87	213.19
				For Cement Mortar Lining (CML), Add	17.48	
				Note: ANSI/AWWA C104/A21.4		
				For Fusion Bonded Epoxy Lining (206N), Add	31.47	
				Note: ANSI/AWWA C104/A21.4		
				For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.11	
				Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1143	EA			12" Flanged End x Push-On Joint Adapter, Ductile Iron	590.64	243.69
				For Cement Mortar Lining (CML), Add	22.15	
				Note: ANSI/AWWA C104/A21.4		
				For Fusion Bonded Epoxy Lining (206N), Add	39.86	
				Note: ANSI/AWWA C104/A21.4		
				For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.61	
				Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1144	EA			14" Flanged End x Push-On Joint Adapter, Ductile Iron	665.66	262.39
				For Cement Mortar Lining (CML), Add	26.81	
				Note: ANSI/AWWA C104/A21.4		
				For Fusion Bonded Epoxy Lining (206N), Add	48.26	
				Note: ANSI/AWWA C104/A21.4		
				For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.11	
				Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1145	EA			16" Flanged End x Push-On Joint Adapter, Ductile Iron	768.73	284.27
				For Cement Mortar Lining (CML), Add	33.80	
				Note: ANSI/AWWA C104/A21.4		
				For Fusion Bonded Epoxy Lining (206N), Add	60.84	
				Note: ANSI/AWWA C104/A21.4		
				For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.35	
				Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1146	EA			18" Flanged End x Push-On Joint Adapter, Ductile Iron	913.14	341.12
				For Cement Mortar Lining (CML), Add	39.63	
				Note: ANSI/AWWA C104/A21.4		
				For Fusion Bonded Epoxy Lining (206N), Add	71.33	
				Note: ANSI/AWWA C104/A21.4		
				For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.72	
				Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1147	EA			20" Flanged End x Push-On Joint Adapter, Ductile Iron	1,046.34	379.02
				For Cement Mortar Lining (CML), Add	47.21	
				Note: ANSI/AWWA C104/A21.4		
				For Fusion Bonded Epoxy Lining (206N), Add	84.97	
				Note: ANSI/AWWA C104/A21.4		
				For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.41	
				Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1148 EA 24" Flanged End x Push-On Joint Adapter, Ductile Iron	1,280.39	437.34
For Cement Mortar Lining (CML), Add	61.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	111.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1149 EA 30" Flanged End x Push-On Joint Adapter, Ductile Iron	1,903.87	524.77
For Cement Mortar Lining (CML), Add	110.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	199.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	83.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1150 EA 36" Flanged End x Push-On Joint Adapter, Ductile Iron	2,575.89	655.97
For Cement Mortar Lining (CML), Add	158.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	284.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	118.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1151 EA 42" Flanged End x Push-On Joint Adapter, Ductile Iron	3,196.97	758.04
For Cement Mortar Lining (CML), Add	204.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	368.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	153.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1152 EA 48" Flanged End x Push-On Joint Adapter, Ductile Iron	4,086.25	974.60
For Cement Mortar Lining (CML), Add	260.96	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	469.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	195.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1153 EA 54" Flanged End x Push-On Joint Adapter, Ductile Iron	4,925.89	1,137.32
For Cement Mortar Lining (CML), Add	320.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	576.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	240.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1154 Push-On Joint Ductile Iron Pipe And Fitting Restraints (33 14 13 13-1088)		
Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-1155 EA 4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	33.08	15.76
33 14 13 13-1156 EA 6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	43.92	20.56
33 14 13 13-1157 EA 8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	57.51	21.08
33 14 13 13-1158 EA 10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	66.95	22.38
33 14 13 13-1159 EA 12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	78.88	24.87
33 14 13 13-1160 EA 14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	98.12	27.97
33 14 13 13-1161 EA 16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	115.31	31.98
33 14 13 13-1162 EA 18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	129.39	34.65
33 14 13 13-1163 EA 20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	151.37	41.57
33 14 13 13-1164 EA 24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	179.05	43.18
33 14 13 13-1165 EA 30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	226.58	47.97
33 14 13 13-1166 EA 36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	291.28	51.96
33 14 13 13-1167 EA 42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	356.66	56.86
33 14 13 13-1168 EA 48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	419.55	63.96
33 14 13 13-1169 EA 54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	571.96	69.36
33 14 13 13-1170 Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series) (33 14 13 13-1088)		
33 14 13 13-1171 EA 4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400)	175.04	58.14
33 14 13 13-1172 EA 6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600)	229.69	70.98
33 14 13 13-1173 EA 8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800)	294.77	86.57
33 14 13 13-1174 EA 10" Bell Restraint Harness, Ductile Iron (MEGALUG® 171000)	439.27	105.60
33 14 13 13-1175 EA 12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200)	544.42	128.78
33 14 13 13-1176 EA 14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400)	925.54	157.12
33 14 13 13-1177 EA 16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600)	1,059.15	191.75
33 14 13 13-1178 EA 18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800)	1,205.65	233.88
33 14 13 13-1179 EA 20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000)	1,632.28	285.39
33 14 13 13-1180 EA 24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400)	2,078.77	348.10
33 14 13 13-1181 EA 30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000)	3,552.53	424.76
33 14 13 13-1182 EA 36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600)	5,023.61	518.14
33 14 13 13-1183 EA 42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200)	9,063.34	632.19
33 14 13 13-1184 EA 48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800)	11,715.81	771.22
33 14 13 13-1185 Ductile Iron Pipe Repair (33 14 13 13-0001)		
See CSI section 33 14 13 13-0002 for mechanical joint fittings.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1186				Ductile Iron Pipe Repair <small>(33 14 13 13-1185)</small>		
				Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.		
				33 14 13 13-1187 EA 30" Diameter Mechanical Ductile Iron Push Joint.....	2,386.94	
				33 14 13 13-1188 EA 36" Diameter Mechanical Ductile Iron Push Joint.....	3,018.87	
				33 14 13 13-1189 EA 42" Diameter Mechanical Ductile Iron Push Joint.....	3,796.68	
				33 14 13 13-1190 EA 48" Diameter Mechanical Ductile Iron Push Joint.....	4,759.44	
				33 14 13 13-1191 EA 54" Diameter Mechanical Ductile Iron Push Joint.....	6,866.38	
33 14 13 13-1192				WEKO Seals <small>(33 14 13 13-1185)</small>		
				Note: Internal joint seal.		
				33 14 13 13-1193 EA 16" WEKO Internal Joint Seal.....	1,296.33	161.02
				For Extra Wide Seals, Add	82.20	
				33 14 13 13-1194 EA 18" WEKO Internal Joint Seal.....	1,380.69	170.02
				For Extra Wide Seals, Add	82.89	
				33 14 13 13-1195 EA 20" WEKO Internal Joint Seal.....	1,464.92	179.03
				For Extra Wide Seals, Add	83.56	
				33 14 13 13-1196 EA 24" WEKO Internal Joint Seal.....	1,552.94	193.36
				For Extra Wide Seals, Add	84.65	
				33 14 13 13-1197 EA 30" WEKO Internal Joint Seal.....	1,605.10	207.68
				For Extra Wide Seals, Add	85.73	
				33 14 13 13-1198 EA 36" WEKO Internal Joint Seal.....	1,685.98	225.58
				For Extra Wide Seals, Add	87.09	
				33 14 13 13-1199 EA 42" WEKO Internal Joint Seal.....	1,799.19	247.06
				For Extra Wide Seals, Add	88.72	
				33 14 13 13-1200 EA 48" WEKO Internal Joint Seal.....	1,942.82	264.96
				For Extra Wide Seals, Add	90.07	
				33 14 13 13-1201 EA 54" WEKO Internal Joint Seal.....	2,016.49	279.29
				For Extra Wide Seals, Add	91.16	
				33 14 13 13-1202 EA 60" WEKO Internal Joint Seal.....	2,104.62	300.77
				For Extra Wide Seals, Add	92.79	
33 14 13 23				Plastic Public Water Utility Distribution Piping <small>(33 14 13)</small>		
33 14 13 23-0001				Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping <small>(33 14 13 23)</small>		
33 14 13 23-0002				Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <small>(33 14 13 23-0001)</small>		
				33 14 13 23-0003 LF 3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	1.93	0.68
				For >1,000, Deduct	-0.10	
				For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.04	
				33 14 13 23-0004 LF 1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	2.12	0.73
				For >1,000, Deduct	-0.11	
				For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.05	
				33 14 13 23-0005 LF 1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	2.48	0.79
				For >1,000, Deduct	-0.12	
				For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.08	
				33 14 13 23-0006 LF 1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	2.87	0.88
				For >1,000, Deduct	-0.14	
				For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.10	
				33 14 13 23-0007 LF 2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	3.71	0.98
				For >1,000, Deduct	-0.19	
				For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.19	
				33 14 13 23-0008 LF 2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	4.78	1.11
				For >1,000, Deduct	-0.24	
				For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.30	
				33 14 13 23-0009 LF 3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	5.82	1.24
				For >1,000, Deduct	-0.29	
				For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.41	
				33 14 13 23-0010 LF 4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	8.28	1.53
				For >1,000, Deduct	-0.41	
				For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.67	
				33 14 13 23-0011 LF 6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	14.58	1.95
				For >1,000, Deduct	-0.73	
				For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.46	
				33 14 13 23-0012 LF 8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	23.19	2.69
				For >1,000, Deduct	-1.16	
				For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	2.47	
				33 14 13 23-0013 LF 10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	34.60	3.61
				For >1,000, Deduct	-1.73	
				For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	3.84	
				33 14 13 23-0014 LF 12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	48.17	4.86
				For >1,000, Deduct	-2.41	
				For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	5.41	
33 14 13 23-0015				90 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0001)</small>		
				33 14 13 23-0016 EA 3/4" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	20.50	8.09
				33 14 13 23-0017 EA 1" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	25.92	10.12
				33 14 13 23-0018 EA 1-1/4" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	32.65	12.65
				33 14 13 23-0019 EA 1-1/2" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	49.15	13.99
				33 14 13 23-0020 EA 2" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	53.19	15.68
				33 14 13 23-0021 EA 2-1/2" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	62.96	17.79

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0022 EA 3" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	70.54	19.94
33 14 13 23-0023 EA 4" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	97.94	24.48
33 14 13 23-0024 EA 6" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	141.09	31.10
33 14 13 23-0025 EA 8" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	228.59	40.83
33 14 13 23-0026 EA 10" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	281.05	54.62
33 14 13 23-0027 EA 12" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	371.51	73.52
33 14 13 23-0028 45 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)		
33 14 13 23-0029 EA 3/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	20.88	8.09
33 14 13 23-0030 EA 1" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	26.19	10.12
33 14 13 23-0031 EA 1-1/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	32.81	12.65
33 14 13 23-0032 EA 1-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	44.18	13.99
33 14 13 23-0033 EA 2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	53.65	15.68
33 14 13 23-0034 EA 2-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	64.84	17.79
33 14 13 23-0035 EA 3" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	69.75	19.94
33 14 13 23-0036 EA 4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	96.23	24.48
33 14 13 23-0037 EA 6" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	137.64	31.10
33 14 13 23-0038 EA 8" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	222.02	40.83
33 14 13 23-0039 EA 10" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	253.81	54.62
33 14 13 23-0040 EA 12" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	333.81	73.52
33 14 13 23-0041 Tees Or Wyes, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)		
33 14 13 23-0042 EA 3/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	30.73	12.14
33 14 13 23-0043 EA 1" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	38.79	15.26
33 14 13 23-0044 EA 1-1/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	48.64	19.05
33 14 13 23-0045 EA 1-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	67.60	21.08
33 14 13 23-0046 EA 2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	76.96	23.44
33 14 13 23-0047 EA 2-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	89.60	26.72
33 14 13 23-0048 EA 3" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	107.92	29.82
33 14 13 23-0049 EA 4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	141.84	36.76
33 14 13 23-0050 EA 6" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	235.44	46.72
33 14 13 23-0051 EA 8" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	353.03	61.24
33 14 13 23-0052 EA 10" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	418.02	86.54
33 14 13 23-0053 EA 12" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	522.67	116.44
33 14 13 23-0054 Couplings, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)		
33 14 13 23-0055 EA 3/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	13.73	5.40
33 14 13 23-0056 EA 1" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	18.54	7.25
33 14 13 23-0057 EA 1-1/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	24.75	9.52
33 14 13 23-0058 EA 1-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	34.60	10.54
33 14 13 23-0059 EA 2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	38.14	11.72
33 14 13 23-0060 EA 2-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	43.39	13.32
33 14 13 23-0061 EA 3" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	49.82	14.91
33 14 13 23-0062 EA 4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	68.42	18.34
33 14 13 23-0063 EA 6" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	97.89	23.37
33 14 13 23-0064 EA 8" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	166.60	30.62
33 14 13 23-0065 EA 10" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	198.31	43.31
33 14 13 23-0066 EA 12" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	252.71	58.22
33 14 13 23-0067 Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0068 Schedule 40 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0067)		
33 14 13 23-0069 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	2.12	0.68
For >1,000, Deduct	-0.11	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.06	
33 14 13 23-0070 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe	2.49	0.73
For >1,000, Deduct	-0.12	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.10	
33 14 13 23-0071 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	3.21	0.88
For >1,000, Deduct	-0.16	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.15	
33 14 13 23-0072 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	3.84	0.98
For >1,000, Deduct	-0.19	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.21	
33 14 13 23-0073 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	4.98	1.11
For >1,000, Deduct	-0.25	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.33	
33 14 13 23-0074 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe	5.95	1.24
For >1,000, Deduct	-0.30	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.43	
33 14 13 23-0075 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	7.94	1.53
For >1,000, Deduct	-0.40	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.62	
33 14 13 23-0076 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe	12.04	1.95
For >1,000, Deduct	-0.60	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0077 90 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0067)</small>		
33 14 13 23-0078 EA 3/4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	20.64	8.09
33 14 13 23-0079 EA 1" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	26.00	10.12
33 14 13 23-0080 EA 1-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	36.17	13.99
33 14 13 23-0081 EA 2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	40.86	15.68
33 14 13 23-0082 EA 2-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	49.11	17.79
33 14 13 23-0083 EA 3" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	55.38	19.94
33 14 13 23-0084 EA 4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	72.57	24.48
33 14 13 23-0085 EA 6" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	113.92	31.10
33 14 13 23-0086 45 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0067)</small>		
33 14 13 23-0087 EA 3/4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	20.61	8.09
33 14 13 23-0088 EA 1" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	25.97	10.12
33 14 13 23-0089 EA 1-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	36.18	13.99
33 14 13 23-0090 EA 2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	40.73	15.68
33 14 13 23-0091 EA 2-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	48.76	17.79
33 14 13 23-0092 EA 3" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	54.97	19.94
33 14 13 23-0093 EA 4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	71.73	24.48
33 14 13 23-0094 EA 6" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	111.25	31.10
33 14 13 23-0095 Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0067)</small>		
33 14 13 23-0096 EA 3/4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	30.87	12.14
33 14 13 23-0097 EA 1" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	38.90	15.26
33 14 13 23-0098 EA 1-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	54.08	21.08
33 14 13 23-0099 EA 2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	60.83	23.44
33 14 13 23-0100 EA 2-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	73.87	26.72
33 14 13 23-0101 EA 3" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	84.77	29.82
33 14 13 23-0102 EA 4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	105.44	36.76
33 14 13 23-0103 EA 6" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	173.44	46.72
33 14 13 23-0104 Couplings, Schedule 40 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0067)</small>		
33 14 13 23-0105 EA 3/4" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	13.80	5.40
33 14 13 23-0106 EA 1" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	18.59	7.25
33 14 13 23-0107 EA 1-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	26.96	10.54
33 14 13 23-0108 EA 2" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	30.40	11.72
33 14 13 23-0109 EA 2-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	35.70	13.32
33 14 13 23-0110 EA 3" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	40.91	14.91
33 14 13 23-0111 EA 4" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	50.68	18.34
33 14 13 23-0112 EA 6" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	74.83	23.37
33 14 13 23-0113 Crosses, Schedule 40 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0067)</small>		
33 14 13 23-0114 EA 3/4" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	41.29	16.19
33 14 13 23-0115 EA 1" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	51.81	20.32
33 14 13 23-0116 EA 1-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	72.09	28.08
33 14 13 23-0117 EA 2" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	81.09	31.28
33 14 13 23-0118 EA 2-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	98.44	35.58
33 14 13 23-0119 EA 3" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	112.96	39.79
33 14 13 23-0120 EA 4" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	140.51	48.96
33 14 13 23-0121 EA 6" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	230.93	62.28
33 14 13 23-0122 Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings <small>(33 14 13 23)</small>		
33 14 13 23-0123 Schedule 80 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0122)</small>		
33 14 13 23-0124 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	2.70	0.73
For >1,000, Deduct	-0.14	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.13	
33 14 13 23-0125 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	3.63	0.88
For >1,000, Deduct	-0.18	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.22	
33 14 13 23-0126 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	4.54	0.98
For >1,000, Deduct	-0.23	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.31	
33 14 13 23-0127 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	5.89	1.11
For >1,000, Deduct	-0.29	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.47	
33 14 13 23-0128 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	7.23	1.24
For >1,000, Deduct	-0.36	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.62	
33 14 13 23-0129 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	9.90	1.53
For >1,000, Deduct	-0.50	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.91	
33 14 13 23-0130 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	16.41	1.95
For >1,000, Deduct	-0.82	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.73	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0131 90 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)		
33 14 13 23-0132 EA 1" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	27.09	10.12
33 14 13 23-0133 EA 1-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	36.17	13.99
33 14 13 23-0134 EA 2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	41.94	15.68
33 14 13 23-0135 EA 2-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	51.42	17.79
33 14 13 23-0136 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	57.53	19.94
33 14 13 23-0137 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	73.08	24.48
33 14 13 23-0138 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	111.47	31.10
33 14 13 23-0139 45 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)		
33 14 13 23-0140 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	31.55	10.12
33 14 13 23-0141 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	40.46	13.99
33 14 13 23-0142 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	46.07	15.68
33 14 13 23-0143 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	59.16	17.79
33 14 13 23-0144 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	67.61	19.94
33 14 13 23-0145 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	93.34	24.48
33 14 13 23-0146 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	110.12	31.10
33 14 13 23-0147 Tees Or Wyes, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)		
33 14 13 23-0148 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	41.18	15.26
33 14 13 23-0149 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	61.00	21.08
33 14 13 23-0150 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	69.08	23.44
33 14 13 23-0151 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	78.24	26.72
33 14 13 23-0152 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	88.95	29.82
33 14 13 23-0153 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	108.46	36.76
33 14 13 23-0154 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	173.33	46.72
33 14 13 23-0155 Couplings, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)		
33 14 13 23-0156 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Coupling	20.22	7.25
33 14 13 23-0157 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	29.76	10.54
33 14 13 23-0158 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	33.03	11.72
33 14 13 23-0159 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	42.46	13.32
33 14 13 23-0160 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Coupling	47.72	14.91
33 14 13 23-0161 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Coupling	58.97	18.34
33 14 13 23-0162 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Coupling	86.40	23.37
33 14 13 23-0163 Crosses, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)		
33 14 13 23-0164 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Cross	54.83	20.32
33 14 13 23-0165 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	81.28	28.08
33 14 13 23-0166 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Cross	92.05	31.28
33 14 13 23-0167 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	104.25	35.58
33 14 13 23-0168 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Cross	118.51	39.79
33 14 13 23-0169 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Cross	144.51	48.96
33 14 13 23-0170 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Cross	230.79	62.28
33 14 13 23-0171 AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe (33 14 13 23)		
Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.		
33 14 13 23-0172 AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0173 LF 4" AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe	7.97	2.93
33 14 13 23-0174 LF 6" AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe	11.40	3.56
33 14 13 23-0175 LF 8" AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe	15.38	4.00
33 14 13 23-0176 LF 10" AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe	20.03	4.44
33 14 13 23-0177 LF 12" AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe	25.71	4.98
33 14 13 23-0178 AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0179 LF 4" AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe	8.72	2.93
33 14 13 23-0180 LF 6" AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe	12.96	3.56
33 14 13 23-0181 LF 8" AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe	18.01	4.00
33 14 13 23-0182 LF 10" AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe	24.12	4.44
33 14 13 23-0183 LF 12" AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe	31.42	4.98
33 14 13 23-0184 AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0185 LF 4" AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe	9.47	2.93
33 14 13 23-0186 LF 6" AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe	14.51	3.56
33 14 13 23-0187 LF 8" AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe	20.64	4.00
33 14 13 23-0188 LF 10" AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe	28.12	4.44
33 14 13 23-0189 LF 12" AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe	37.13	4.98
33 14 13 23-0190 AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0191 LF 18" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	32.50	7.47



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0192 LF 20" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	39.44	8.90
33 14 13 23-0193 LF 24" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	51.91	10.67
33 14 13 23-0194 LF 30" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	72.68	12.46
33 14 13 23-0195 LF 36" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	98.03	14.23
33 14 13 23-0196 LF 42" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	121.92	15.13
33 14 13 23-0197 LF 48" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	152.13	16.28
33 14 13 23-0198 AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0199 LF 14" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	24.02	5.61
33 14 13 23-0200 LF 16" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	29.55	6.23
33 14 13 23-0201 LF 18" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	36.45	7.47
33 14 13 23-0202 LF 20" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	44.57	8.90
33 14 13 23-0203 LF 24" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	59.83	10.67
33 14 13 23-0204 LF 30" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	84.04	12.46
33 14 13 23-0205 LF 36" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	113.24	14.23
33 14 13 23-0206 LF 42" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	147.22	15.13
33 14 13 23-0207 LF 48" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	184.96	16.28
33 14 13 23-0208 AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0209 LF 14" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	27.06	5.61
33 14 13 23-0210 LF 16" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	33.77	6.23
33 14 13 23-0211 LF 18" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	41.70	7.47
33 14 13 23-0212 LF 20" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	51.38	8.90
33 14 13 23-0213 LF 24" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	69.61	10.67
33 14 13 23-0214 LF 30" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	98.73	12.46
33 14 13 23-0215 LF 36" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	134.67	14.23
33 14 13 23-0216 LF 42" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	172.61	15.13
33 14 13 23-0217 LF 48" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	218.09	16.28
33 14 13 23-0218 AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0219 LF 14" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	32.26	5.61
33 14 13 23-0220 LF 16" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	39.95	6.23
33 14 13 23-0221 LF 18" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	49.65	7.47
33 14 13 23-0222 LF 20" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	60.99	8.90
33 14 13 23-0223 LF 24" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	83.46	10.67
33 14 13 23-0224 LF 30" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	120.46	12.46
33 14 13 23-0225 LF 36" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	168.10	14.23
33 14 13 23-0226 LF 42" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	221.63	15.13
33 14 13 23-0227 LF 48" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	283.88	16.28
33 14 13 23-0228 AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0229 LF 14" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	36.18	5.61
33 14 13 23-0230 LF 16" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	45.04	6.23
33 14 13 23-0231 LF 18" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	56.07	7.47
33 14 13 23-0232 LF 20" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	68.98	8.90
33 14 13 23-0233 LF 24" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	94.95	10.67
33 14 13 23-0234 LF 30" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	138.14	12.46
33 14 13 23-0235 LF 36" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	193.93	14.23
33 14 13 23-0236 LF 42" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	257.04	15.13
33 14 13 23-0237 AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0238 LF 14" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	39.98	5.61
33 14 13 23-0239 LF 16" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	49.99	6.23
33 14 13 23-0240 LF 18" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	62.31	7.47
33 14 13 23-0241 LF 20" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	76.76	8.90
33 14 13 23-0242 LF 24" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	106.13	10.67
33 14 13 23-0243 LF 30" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	155.35	12.46
33 14 13 23-0244 LF 36" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	219.06	14.23
33 14 13 23-0245 AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) Fittings (33 14 13 23)		
Note: Includes rubber gaskets.		
33 14 13 23-0246 90 Degree Elbows, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
33 14 13 23-0247 EA 4" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	177.65	10.12
For DR 25, Deduct	-9.44	
33 14 13 23-0248 EA 6" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	366.37	11.39
For DR 25, Deduct	-20.62	
33 14 13 23-0249 EA 8" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	551.60	12.65
For DR 25, Deduct	-31.58	
33 14 13 23-0250 EA 10" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	842.39	20.22
For DR 25, Deduct	-48.12	
33 14 13 23-0251 EA 12" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	942.23	33.70
For DR 25, Deduct	-52.49	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0252	EA	14"	90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,645.64	42.13
			<i>For DR 25, Deduct</i>	-93.68	
33 14 13 23-0253	EA	16"	90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,963.77	50.56
			<i>For DR 25, Deduct</i>	-111.76	
33 14 13 23-0254	EA	18"	90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,375.05	67.40
			<i>For DR 25, Deduct</i>	-194.41	
33 14 13 23-0255	EA	20"	90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,154.47	84.26
			<i>For DR 25, Deduct</i>	-239.16	
33 14 13 23-0256	EA	24"	90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	6,903.48	113.75
			<i>For DR 25, Deduct</i>	-400.56	
33 14 13 23-0257			45 Degree Elbows, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0258	EA	4"	45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	157.10	10.12
			<i>For DR 25, Deduct</i>	-8.21	
33 14 13 23-0259	EA	6"	45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	273.16	11.39
			<i>For DR 25, Deduct</i>	-15.02	
33 14 13 23-0260	EA	8"	45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	346.66	12.65
			<i>For DR 25, Deduct</i>	-19.28	
33 14 13 23-0261	EA	10"	45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	489.95	20.22
			<i>For DR 25, Deduct</i>	-26.97	
33 14 13 23-0262	EA	12"	45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	653.25	33.70
			<i>For DR 25, Deduct</i>	-35.15	
33 14 13 23-0263	EA	14"	45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,262.02	42.13
			<i>For DR 25, Deduct</i>	-70.66	
33 14 13 23-0264	EA	16"	45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,600.35	50.56
			<i>For DR 25, Deduct</i>	-89.95	
33 14 13 23-0265	EA	18"	45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,767.43	67.40
			<i>For DR 25, Deduct</i>	-157.96	
33 14 13 23-0266	EA	20"	45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,437.14	84.26
			<i>For DR 25, Deduct</i>	-196.12	
33 14 13 23-0267	EA	24"	45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,851.89	113.75
			<i>For DR 25, Deduct</i>	-277.46	
33 14 13 23-0268			22-1/2 Degree Elbows, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0269	EA	4"	22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	154.59	10.12
			<i>For DR 25, Deduct</i>	-8.06	
33 14 13 23-0270	EA	6"	22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	273.16	11.39
			<i>For DR 25, Deduct</i>	-15.02	
33 14 13 23-0271	EA	8"	22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	346.66	12.65
			<i>For DR 25, Deduct</i>	-19.28	
33 14 13 23-0272	EA	10"	22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	489.96	20.22
			<i>For DR 25, Deduct</i>	-26.97	
33 14 13 23-0273	EA	12"	22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	653.25	33.70
			<i>For DR 25, Deduct</i>	-35.15	
33 14 13 23-0274	EA	14"	22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,258.63	40.44
			<i>For DR 25, Deduct</i>	-70.66	
33 14 13 23-0275	EA	16"	22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,600.34	50.56
			<i>For DR 25, Deduct</i>	-89.95	
33 14 13 23-0276	EA	18"	22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,767.43	67.40
			<i>For DR 25, Deduct</i>	-157.96	
33 14 13 23-0277	EA	20"	22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,437.14	84.26
			<i>For DR 25, Deduct</i>	-196.12	
33 14 13 23-0278	EA	24"	22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,851.89	113.75
			<i>For DR 25, Deduct</i>	-277.46	
33 14 13 23-0279			11-1/4 Degree Elbows, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0280	EA	4"	11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	136.19	10.12
			<i>For DR 25, Deduct</i>	-6.96	
33 14 13 23-0281	EA	6"	11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	273.16	11.39
			<i>For DR 25, Deduct</i>	-15.02	
33 14 13 23-0282	EA	8"	11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	346.66	12.65
			<i>For DR 25, Deduct</i>	-19.28	
33 14 13 23-0283	EA	10"	11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	489.96	20.22
			<i>For DR 25, Deduct</i>	-26.97	
33 14 13 23-0284	EA	12"	11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	653.25	33.70
			<i>For DR 25, Deduct</i>	-35.15	
33 14 13 23-0285	EA	14"	11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,258.63	40.44
			<i>For DR 25, Deduct</i>	-70.66	
33 14 13 23-0286	EA	16"	11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,600.34	50.56
			<i>For DR 25, Deduct</i>	-89.95	
33 14 13 23-0287	EA	18"	11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,767.43	67.40
			<i>For DR 25, Deduct</i>	-157.96	
33 14 13 23-0288	EA	20"	11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,437.14	84.26
			<i>For DR 25, Deduct</i>	-196.12	
33 14 13 23-0289	EA	24"	11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,851.89	113.75
			<i>For DR 25, Deduct</i>	-277.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0290 Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)		
<small>(33 14 13 23-0245)</small>		
33 14 13 23-0291 EA 4" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	211.31	11.39
For DR 25, Deduct	-11.31	
33 14 13 23-0292 EA 6" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	410.76	12.65
For DR 25, Deduct	-23.13	
33 14 13 23-0293 EA 8" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	574.13	14.34
For DR 25, Deduct	-32.73	
33 14 13 23-0294 EA 10" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,185.35	25.28
For DR 25, Deduct	-68.09	
33 14 13 23-0295 EA 12" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,441.50	50.56
For DR 25, Deduct	-80.43	
33 14 13 23-0296 EA 14" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,610.92	63.19
For DR 25, Deduct	-149.07	
33 14 13 23-0297 EA 16" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,234.52	75.84
For DR 25, Deduct	-184.97	
33 14 13 23-0298 EA 18" Tee, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	4,079.76	101.11
For DR 25, Deduct	-232.65	
33 14 13 23-0299 EA 20" Tee, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	4,897.95	126.39
For DR 25, Deduct	-278.71	
33 14 13 23-0300 EA 24" Tee, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	6,743.25	85.94
For DR 25, Deduct	-394.28	
33 14 13 23-0301 Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)		
<small>(33 14 13 23-0245)</small>		
33 14 13 23-0302 EA 6" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	407.91	16.44
For DR 25, Deduct	-22.50	
33 14 13 23-0303 EA 8" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	556.16	17.71
For DR 25, Deduct	-31.25	
33 14 13 23-0304 EA 8" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	570.03	18.34
For DR 25, Deduct	-32.00	
33 14 13 23-0305 EA 10" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	5,716.30	25.28
For DR 25, Deduct	-339.94	
33 14 13 23-0306 EA 10" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,003.99	25.91
For DR 25, Deduct	-57.13	
33 14 13 23-0307 EA 10" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,074.36	26.54
For DR 25, Deduct	-61.28	
33 14 13 23-0308 EA 12" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,136.17	38.75
For DR 25, Deduct	-63.52	
33 14 13 23-0309 EA 12" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,305.58	39.39
For DR 25, Deduct	-73.61	
33 14 13 23-0310 EA 12" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,385.55	40.02
For DR 25, Deduct	-78.33	
33 14 13 23-0311 EA 12" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,410.84	43.82
For DR 25, Deduct	-79.39	
33 14 13 23-0312 EA 14" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,148.26	45.50
For DR 25, Deduct	-123.44	
33 14 13 23-0313 EA 14" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,234.99	46.13
For DR 25, Deduct	-128.56	
33 14 13 23-0314 EA 14" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,321.93	46.76
For DR 25, Deduct	-133.70	
33 14 13 23-0315 EA 14" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,414.70	50.56
For DR 25, Deduct	-138.82	
33 14 13 23-0316 EA 14" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,513.70	57.30
For DR 25, Deduct	-143.95	
33 14 13 23-0317 EA 16" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,681.27	55.61
For DR 25, Deduct	-154.20	
33 14 13 23-0318 EA 16" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,766.71	55.61
For DR 25, Deduct	-159.33	
33 14 13 23-0319 EA 16" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,853.46	56.24
For DR 25, Deduct	-164.46	
33 14 13 23-0320 EA 16" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,940.19	56.88
For DR 25, Deduct	-169.59	
33 14 13 23-0321 EA 16" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,046.69	67.40
For DR 25, Deduct	-174.71	
33 14 13 23-0322 EA 16" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,138.90	70.78
For DR 25, Deduct	-179.84	
33 14 13 23-0323 EA 18" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,312.60	72.47
For DR 25, Deduct	-190.06	
33 14 13 23-0324 EA 18" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,399.94	73.09
For DR 25, Deduct	-195.23	
33 14 13 23-0325 EA 18" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,486.67	73.72
For DR 25, Deduct	-200.35	
33 14 13 23-0326 EA 18" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,579.72	77.52
For DR 25, Deduct	-205.48	
33 14 13 23-0327 EA 18" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,678.63	84.26
For DR 25, Deduct	-210.61	
33 14 13 23-0328 EA 18" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,770.24	87.63
For DR 25, Deduct	-215.70	
33 14 13 23-0329 EA 18" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,886.48	92.68
For DR 25, Deduct	-222.07	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0330 EA 20" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,202.11	89.31
For DR 25, Deduct	-241.41	
33 14 13 23-0331 EA 20" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,349.30	89.95
For DR 25, Deduct	-250.16	
33 14 13 23-0332 EA 20" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,407.15	90.58
For DR 25, Deduct	-253.56	
33 14 13 23-0333 EA 20" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,471.38	94.37
For DR 25, Deduct	-256.96	
33 14 13 23-0334 EA 20" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,541.46	101.11
For DR 25, Deduct	-260.35	
33 14 13 23-0335 EA 20" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,639.96	104.48
For DR 25, Deduct	-265.86	
33 14 13 23-0336 EA 20" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,741.84	109.54
For DR 25, Deduct	-271.37	
33 14 13 23-0337 EA 20" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,819.90	117.96
For DR 25, Deduct	-275.04	
33 14 13 23-0338 EA 24" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,943.98	118.80
For DR 25, Deduct	-282.38	
33 14 13 23-0339 EA 24" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,006.47	119.44
For DR 25, Deduct	-286.06	
33 14 13 23-0340 EA 24" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,068.96	120.07
For DR 25, Deduct	-289.73	
33 14 13 23-0341 EA 24" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,325.46	123.87
For DR 25, Deduct	-304.66	
33 14 13 23-0342 EA 24" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,587.87	130.60
For DR 25, Deduct	-319.60	
33 14 13 23-0343 EA 24" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,843.55	133.97
For DR 25, Deduct	-334.54	
33 14 13 23-0344 EA 24" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	6,102.59	139.03
For DR 25, Deduct	-349.47	
33 14 13 23-0345 EA 24" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	6,368.39	147.45
For DR 25, Deduct	-364.41	
33 14 13 23-0346 EA 24" x 20" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	6,634.17	155.88
For DR 25, Deduct	-379.34	
33 14 13 23-0347 Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23- (0245))		
33 14 13 23-0348 EA 4" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	291.88	20.23
For DR 25, Deduct	-15.08	
33 14 13 23-0349 EA 6" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	528.02	22.76
For DR 25, Deduct	-28.95	
33 14 13 23-0350 EA 8" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	732.75	25.29
For DR 25, Deduct	-40.93	
33 14 13 23-0351 EA 10" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,498.78	40.44
For DR 25, Deduct	-85.07	
33 14 13 23-0352 EA 12" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,776.93	50.56
For DR 25, Deduct	-100.55	
33 14 13 23-0353 EA 14" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,240.65	67.40
For DR 25, Deduct	-186.35	
33 14 13 23-0354 EA 16" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,021.48	84.26
For DR 25, Deduct	-231.19	
33 14 13 23-0355 EA 18" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,117.28	134.81
For DR 25, Deduct	-290.86	
33 14 13 23-0356 EA 20" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	6,143.59	168.52
For DR 25, Deduct	-348.39	
33 14 13 23-0357 EA 24" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	8,668.71	227.50
For DR 25, Deduct	-492.82	
33 14 13 23-0358 Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
33 14 13 23-0359 EA 6" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	512.16	21.50
For DR 25, Deduct	-28.15	
33 14 13 23-0360 EA 8" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	697.27	22.76
For DR 25, Deduct	-39.10	
33 14 13 23-0361 EA 8" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	714.90	24.02
For DR 25, Deduct	-40.01	
33 14 13 23-0362 EA 10" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,074.19	30.33
For DR 25, Deduct	-60.81	
33 14 13 23-0363 EA 10" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,253.56	31.60
For DR 25, Deduct	-71.42	
33 14 13 23-0364 EA 10" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,377.58	32.86
For DR 25, Deduct	-78.71	
33 14 13 23-0365 EA 12" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,411.37	43.82
For DR 25, Deduct	-79.42	
33 14 13 23-0366 EA 12" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,623.58	45.08
For DR 25, Deduct	-92.01	
33 14 13 23-0367 EA 12" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,724.51	46.35
For DR 25, Deduct	-97.91	
33 14 13 23-0368 EA 12" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,761.73	53.93
For DR 25, Deduct	-99.23	
33 14 13 23-0369 EA 14" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,672.68	50.56
For DR 25, Deduct	-154.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0370 EA 14" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,781.72	51.82
For DR 25, Deduct	-160.68	
33 14 13 23-0371 EA 14" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,891.94	53.08
For DR 25, Deduct	-167.15	
33 14 13 23-0372 EA 14" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,014.34	60.66
For DR 25, Deduct	-173.58	
33 14 13 23-0373 EA 14" x 12" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,147.72	74.15
For DR 25, Deduct	-179.97	
33 14 13 23-0374 EA 16" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,333.37	60.66
For DR 25, Deduct	-192.72	
33 14 13 23-0375 EA 16" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,443.87	61.93
For DR 25, Deduct	-199.20	
33 14 13 23-0376 EA 16" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,553.16	63.19
For DR 25, Deduct	-205.61	
33 14 13 23-0377 EA 16" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,675.46	70.78
For DR 25, Deduct	-212.03	
33 14 13 23-0378 EA 16" x 12" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,732.78	84.26
For DR 25, Deduct	-213.86	
33 14 13 23-0379 EA 16" x 14" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,929.01	91.00
For DR 25, Deduct	-224.82	
33 14 13 23-0380 EA 18" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,115.18	77.52
For DR 25, Deduct	-237.61	
33 14 13 23-0381 EA 18" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,225.40	78.78
For DR 25, Deduct	-244.07	
33 14 13 23-0382 EA 18" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,334.86	80.05
For DR 25, Deduct	-250.49	
33 14 13 23-0383 EA 18" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,455.56	87.63
For DR 25, Deduct	-256.82	
33 14 13 23-0384 EA 18" x 12" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,590.23	101.11
For DR 25, Deduct	-263.28	
33 14 13 23-0385 EA 18" x 14" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,710.15	107.85
For DR 25, Deduct	-269.67	
33 14 13 23-0386 EA 18" x 16" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,862.83	117.96
For DR 25, Deduct	-277.61	
33 14 13 23-0387 EA 20" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,218.60	94.37
For DR 25, Deduct	-301.79	
33 14 13 23-0388 EA 20" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,403.24	95.63
For DR 25, Deduct	-312.72	
33 14 13 23-0389 EA 20" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,477.01	96.90
For DR 25, Deduct	-316.99	
33 14 13 23-0390 EA 20" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,562.67	104.48
For DR 25, Deduct	-321.22	
33 14 13 23-0391 EA 20" x 12" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,660.13	117.96
For DR 25, Deduct	-325.45	
33 14 13 23-0392 EA 20" x 14" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,787.52	124.71
For DR 25, Deduct	-332.29	
33 14 13 23-0393 EA 20" x 16" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,923.92	134.81
For DR 25, Deduct	-339.26	
33 14 13 23-0394 EA 20" x 18" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	6,033.91	151.67
For DR 25, Deduct	-343.83	
33 14 13 23-0395 EA 24" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	6,096.71	123.87
For DR 25, Deduct	-350.94	
33 14 13 23-0396 EA 24" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	6,210.12	125.12
For DR 25, Deduct	-357.59	
33 14 13 23-0397 EA 24" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	6,289.47	126.39
For DR 25, Deduct	-362.20	
33 14 13 23-0398 EA 24" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	6,615.46	133.97
For DR 25, Deduct	-380.85	
33 14 13 23-0399 EA 24" x 12" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	6,953.34	147.45
For DR 25, Deduct	-399.51	
33 14 13 23-0400 EA 24" x 14" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	7,277.66	154.20
For DR 25, Deduct	-418.16	
33 14 13 23-0401 EA 24" x 16" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	7,610.09	164.30
For DR 25, Deduct	-436.89	
33 14 13 23-0402 EA 24" x 18" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	7,953.98	181.16
For DR 25, Deduct	-455.50	
33 14 13 23-0403 EA 24" x 20" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	8,299.21	198.01
For DR 25, Deduct	-474.19	
33 14 13 23-0404 Couplings, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0405 EA 4" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	105.00	10.12
For DR 25, Deduct	-5.09	
33 14 13 23-0406 EA 6" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	197.75	11.39
For DR 25, Deduct	-10.50	
33 14 13 23-0407 EA 8" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	238.31	12.65
For DR 25, Deduct	-12.78	
33 14 13 23-0408 EA 10" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	338.41	20.22
For DR 25, Deduct	-17.88	
33 14 13 23-0409 EA 12" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	540.16	25.28
For DR 25, Deduct	-29.37	
33 14 13 23-0410 EA 14" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	939.84	33.70
For DR 25, Deduct	-52.34	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0411	EA		16" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,112.77	42.13
			<i>For DR 25, Deduct</i>	-61.71	
33 14 13 23-0412	EA		18" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,672.87	67.40
			<i>For DR 25, Deduct</i>	-152.28	
33 14 13 23-0413	EA		20" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,994.17	84.26
			<i>For DR 25, Deduct</i>	-169.54	
33 14 13 23-0414	EA		24" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	4,217.16	113.75
			<i>For DR 25, Deduct</i>	-239.38	
33 14 13 23-0415			Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0416	EA		4" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	130.82	10.12
			<i>For DR 25, Deduct</i>	-6.64	
33 14 13 23-0417	EA		6" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	178.37	11.39
			<i>For DR 25, Deduct</i>	-9.34	
33 14 13 23-0418	EA		8" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	260.37	12.65
			<i>For DR 25, Deduct</i>	-14.10	
33 14 13 23-0419	EA		10" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	355.62	20.22
			<i>For DR 25, Deduct</i>	-18.91	
33 14 13 23-0420	EA		12" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	569.54	33.70
			<i>For DR 25, Deduct</i>	-30.13	
33 14 13 23-0421	EA		14" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,524.85	40.44
			<i>For DR 25, Deduct</i>	-86.64	
33 14 13 23-0422	EA		16" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,065.24	50.56
			<i>For DR 25, Deduct</i>	-117.85	
33 14 13 23-0423	EA		18" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,543.30	67.40
			<i>For DR 25, Deduct</i>	-144.51	
33 14 13 23-0424	EA		20" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,037.57	84.26
			<i>For DR 25, Deduct</i>	-172.14	
33 14 13 23-0425	EA		24" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	4,126.62	113.75
			<i>For DR 25, Deduct</i>	-233.95	
33 14 13 23-0426			AWWA C906, High Density Polyethylene (HDPE) Pressure Piping <small>(33 14 13 23)</small>		
			Note: ASTM D3350 pipe, ASTM D2657 heat fusion.		
33 14 13 23-0427			High Density Polyethylene (HDPE) Pressure Pipe <small>(33 14 13 23-0426)</small>		
33 14 13 23-0428	LF		3" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	6.05	2.31
			<i>For DR 19 (89 PSI), Add</i>	0.12	
			<i>For DR 17 (100 PSI), Add</i>	0.31	
			<i>For DR 15.5 (110 PSI), Add</i>	0.45	
			<i>For DR 13.5 (128 PSI), Add</i>	0.70	
			<i>For DR 11 (160 PSI), Add</i>	1.13	
33 14 13 23-0429	LF		4" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	9.57	2.93
			<i>For DR 26 (65 PSI), Deduct</i>	-0.68	
			<i>For DR 19 (89 PSI), Add</i>	0.33	
			<i>For DR 17 (100 PSI), Add</i>	0.82	
			<i>For DR 15.5 (110 PSI), Add</i>	1.20	
			<i>For DR 13.5 (128 PSI), Add</i>	1.88	
			<i>For DR 11 (160 PSI), Add</i>	3.02	
33 14 13 23-0430	LF		6" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	15.11	3.56
			<i>For DR 26 (65 PSI), Deduct</i>	-1.46	
			<i>For DR 19 (89 PSI), Add</i>	0.72	
			<i>For DR 17 (100 PSI), Add</i>	1.78	
			<i>For DR 15.5 (110 PSI), Add</i>	2.60	
			<i>For DR 13.5 (128 PSI), Add</i>	4.06	
			<i>For DR 11 (160 PSI), Add</i>	6.53	
33 14 13 23-0431	LF		8" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	21.56	4.00
			<i>For DR 26 (65 PSI), Deduct</i>	-2.49	
			<i>For DR 19 (89 PSI), Add</i>	1.22	
			<i>For DR 17 (100 PSI), Add</i>	3.01	
			<i>For DR 15.5 (110 PSI), Add</i>	4.41	
			<i>For DR 13.5 (128 PSI), Add</i>	6.89	
			<i>For DR 11 (160 PSI), Add</i>	11.09	
33 14 13 23-0432	LF		10" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	29.99	4.44
			<i>For DR 26 (65 PSI), Deduct</i>	-3.87	
			<i>For DR 19 (89 PSI), Add</i>	1.90	
			<i>For DR 17 (100 PSI), Add</i>	4.69	
			<i>For DR 15.5 (110 PSI), Add</i>	6.86	
			<i>For DR 13.5 (128 PSI), Add</i>	10.71	
			<i>For DR 11 (160 PSI), Add</i>	17.24	
33 14 13 23-0433	LF		12" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	40.27	49.81
			<i>For DR 26 (65 PSI), Deduct</i>	-5.57	
			<i>For DR 19 (89 PSI), Add</i>	2.74	
			<i>For DR 17 (100 PSI), Add</i>	6.75	
			<i>For DR 15.5 (110 PSI), Add</i>	9.89	
			<i>For DR 13.5 (128 PSI), Add</i>	15.44	
			<i>For DR 11 (160 PSI), Add</i>	24.85	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0434	LF		14" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	46.86	5.61
			<i>For DR 26 (65 PSI), Deduct</i>	-6.55	
			<i>For DR 19 (89 PSI), Add</i>	3.22	
			<i>For DR 17 (100 PSI), Add</i>	7.94	
			<i>For DR 15.5 (110 PSI), Add</i>	11.63	
			<i>For DR 13.5 (128 PSI), Add</i>	18.15	
			<i>For DR 11 (160 PSI), Add</i>	29.22	
33 14 13 23-0435	LF		16" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	59.15	6.23
			<i>For DR 26 (65 PSI), Deduct</i>	-8.56	
			<i>For DR 19 (89 PSI), Add</i>	4.20	
			<i>For DR 17 (100 PSI), Add</i>	10.37	
			<i>For DR 15.5 (110 PSI), Add</i>	15.19	
			<i>For DR 13.5 (128 PSI), Add</i>	23.71	
			<i>For DR 11 (160 PSI), Add</i>	38.17	
33 14 13 23-0436	LF		18" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	73.99	7.47
			<i>For DR 26 (65 PSI), Deduct</i>	-10.82	
			<i>For DR 19 (89 PSI), Add</i>	5.31	
			<i>For DR 17 (100 PSI), Add</i>	13.11	
			<i>For DR 15.5 (110 PSI), Add</i>	19.20	
			<i>For DR 13.5 (128 PSI), Add</i>	29.97	
			<i>For DR 11 (160 PSI), Add</i>	48.24	
33 14 13 23-0437	LF		20" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	62.27	8.90
			<i>For DR 26 (65 PSI), Deduct</i>	-8.15	
			<i>For DR 19 (89 PSI), Add</i>	4.00	
			<i>For DR 17 (100 PSI), Add</i>	9.88	
			<i>For DR 15.5 (110 PSI), Add</i>	14.47	
			<i>For DR 13.5 (128 PSI), Add</i>	22.59	
			<i>For DR 11 (160 PSI), Add</i>	36.36	
33 14 13 23-0438	LF		24" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	126.34	10.67
			<i>For DR 26 (65 PSI), Deduct</i>	-19.25	
			<i>For DR 19 (89 PSI), Add</i>	9.45	
			<i>For DR 17 (100 PSI), Add</i>	23.33	
			<i>For DR 15.5 (110 PSI), Add</i>	34.17	
			<i>For DR 13.5 (128 PSI), Add</i>	53.33	
			<i>For DR 11 (160 PSI), Add</i>	85.84	
33 14 13 23-0439			90 Degree Elbows, High Density Polyethylene (HDPE) Pressure Piping <small>(33 14 13 23-0426)</small>		
33 14 13 23-0440	EA		3" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	55.90	12.65
			<i>For DR 26 (65 PSI), Deduct</i>	-3.29	
			<i>For DR 19 (89 PSI), Add</i>	1.62	
			<i>For DR 17 (100 PSI), Add</i>	3.99	
			<i>For DR 15.5 (110 PSI), Add</i>	5.84	
			<i>For DR 13.5 (128 PSI), Add</i>	9.12	
			<i>For DR 11 (160 PSI), Add</i>	14.68	
33 14 13 23-0441	EA		4" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	63.55	14.07
			<i>For DR 26 (65 PSI), Deduct</i>	-3.92	
			<i>For DR 19 (89 PSI), Add</i>	1.93	
			<i>For DR 17 (100 PSI), Add</i>	4.76	
			<i>For DR 15.5 (110 PSI), Add</i>	6.96	
			<i>For DR 13.5 (128 PSI), Add</i>	10.87	
			<i>For DR 11 (160 PSI), Add</i>	17.49	
33 14 13 23-0442	EA		6" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	105.07	16.06
			<i>For DR 26 (65 PSI), Deduct</i>	-10.43	
			<i>For DR 19 (89 PSI), Add</i>	5.12	
			<i>For DR 17 (100 PSI), Add</i>	12.65	
			<i>For DR 15.5 (110 PSI), Add</i>	18.52	
			<i>For DR 13.5 (128 PSI), Add</i>	28.91	
			<i>For DR 11 (160 PSI), Add</i>	46.53	
33 14 13 23-0443	EA		8" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	175.21	18.75
			<i>For DR 26 (65 PSI), Deduct</i>	-21.81	
			<i>For DR 19 (89 PSI), Add</i>	10.71	
			<i>For DR 17 (100 PSI), Add</i>	26.44	
			<i>For DR 15.5 (110 PSI), Add</i>	38.72	
			<i>For DR 13.5 (128 PSI), Add</i>	60.43	
			<i>For DR 11 (160 PSI), Add</i>	97.27	
33 14 13 23-0444	EA		10" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	273.54	25.04
			<i>For DR 26 (65 PSI), Deduct</i>	-36.40	
			<i>For DR 19 (89 PSI), Add</i>	17.87	
			<i>For DR 17 (100 PSI), Add</i>	44.12	
			<i>For DR 15.5 (110 PSI), Add</i>	64.62	
			<i>For DR 13.5 (128 PSI), Add</i>	100.86	
			<i>For DR 11 (160 PSI), Add</i>	162.34	
33 14 13 23-0445	EA		12" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	403.17	37.47
			<i>For DR 26 (65 PSI), Deduct</i>	-53.30	
			<i>For DR 19 (89 PSI), Add</i>	26.17	
			<i>For DR 17 (100 PSI), Add</i>	64.61	
			<i>For DR 15.5 (110 PSI), Add</i>	94.62	
			<i>For DR 13.5 (128 PSI), Add</i>	147.69	
			<i>For DR 11 (160 PSI), Add</i>	237.72	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0446 EA 14" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	496.61	50.01
For DR 26 (65 PSI), Deduct	-63.54	
For DR 19 (89 PSI), Add	31.20	
For DR 17 (100 PSI), Add	77.03	
For DR 15.5 (110 PSI), Add	112.80	
For DR 13.5 (128 PSI), Add	176.06	
For DR 11 (160 PSI), Add	283.39	
33 14 13 23-0447 EA 16" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	639.90	74.96
For DR 26 (65 PSI), Deduct	-76.09	
For DR 19 (89 PSI), Add	37.36	
For DR 17 (100 PSI), Add	92.24	
For DR 15.5 (110 PSI), Add	135.08	
For DR 13.5 (128 PSI), Add	210.84	
For DR 11 (160 PSI), Add	339.37	
33 14 13 23-0448 EA 18" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	817.87	84.31
For DR 26 (65 PSI), Deduct	-103.55	
For DR 19 (89 PSI), Add	50.84	
For DR 17 (100 PSI), Add	125.53	
For DR 15.5 (110 PSI), Add	183.82	
For DR 13.5 (128 PSI), Add	286.92	
For DR 11 (160 PSI), Add	461.82	
33 14 13 23-0449 EA 20" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,139.54	95.69
For DR 26 (65 PSI), Deduct	-155.72	
For DR 19 (89 PSI), Add	76.46	
For DR 17 (100 PSI), Add	188.76	
For DR 15.5 (110 PSI), Add	276.43	
For DR 13.5 (128 PSI), Add	431.47	
For DR 11 (160 PSI), Add	694.48	
33 14 13 23-0450 EA 24" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,471.37	112.47
For DR 26 (65 PSI), Deduct	-207.88	
For DR 19 (89 PSI), Add	102.07	
For DR 17 (100 PSI), Add	252.00	
For DR 15.5 (110 PSI), Add	369.04	
For DR 13.5 (128 PSI), Add	576.02	
For DR 11 (160 PSI), Add	927.14	
33 14 13 23-0451 Tees, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23-0426)		
33 14 13 23-0452 EA 3" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	63.12	13.24
For DR 26 (65 PSI), Deduct	-4.31	
For DR 19 (89 PSI), Add	2.11	
For DR 17 (100 PSI), Add	5.22	
For DR 15.5 (110 PSI), Add	7.64	
For DR 13.5 (128 PSI), Add	11.93	
For DR 11 (160 PSI), Add	19.20	
33 14 13 23-0453 EA 4" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	72.60	15.00
For DR 26 (65 PSI), Deduct	-5.07	
For DR 19 (89 PSI), Add	2.49	
For DR 17 (100 PSI), Add	6.14	
For DR 15.5 (110 PSI), Add	9.00	
For DR 13.5 (128 PSI), Add	14.04	
For DR 11 (160 PSI), Add	22.60	
33 14 13 23-0454 EA 6" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	124.13	17.30
For DR 26 (65 PSI), Deduct	-13.25	
For DR 19 (89 PSI), Add	6.50	
For DR 17 (100 PSI), Add	16.06	
For DR 15.5 (110 PSI), Add	23.52	
For DR 13.5 (128 PSI), Add	36.71	
For DR 11 (160 PSI), Add	59.08	
33 14 13 23-0455 EA 8" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	244.64	20.45
For DR 26 (65 PSI), Deduct	-33.61	
For DR 19 (89 PSI), Add	16.50	
For DR 17 (100 PSI), Add	40.74	
For DR 15.5 (110 PSI), Add	59.66	
For DR 13.5 (128 PSI), Add	93.12	
For DR 11 (160 PSI), Add	149.88	
33 14 13 23-0456 EA 10" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	331.50	30.01
For DR 26 (65 PSI), Deduct	-44.28	
For DR 19 (89 PSI), Add	21.74	
For DR 17 (100 PSI), Add	53.67	
For DR 15.5 (110 PSI), Add	78.60	
For DR 13.5 (128 PSI), Add	122.68	
For DR 11 (160 PSI), Add	197.47	
33 14 13 23-0457 EA 12" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	464.75	45.03
For DR 26 (65 PSI), Deduct	-60.46	
For DR 19 (89 PSI), Add	29.68	
For DR 17 (100 PSI), Add	73.29	
For DR 15.5 (110 PSI), Add	107.32	
For DR 13.5 (128 PSI), Add	167.52	
For DR 11 (160 PSI), Add	269.63	
33 14 13 23-0458 EA 14" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	556.65	56.24
For DR 26 (65 PSI), Deduct	-71.12	
For DR 19 (89 PSI), Add	34.92	
For DR 17 (100 PSI), Add	86.22	
For DR 15.5 (110 PSI), Add	126.26	
For DR 13.5 (128 PSI), Add	197.08	
For DR 11 (160 PSI), Add	317.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0459 EA 16" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	713.83	84.31
For DR 26 (65 PSI), Deduct	-84.46	
For DR 19 (89 PSI), Add	41.47	
For DR 17 (100 PSI), Add	102.39	
For DR 15.5 (110 PSI), Add	149.94	
For DR 13.5 (128 PSI), Add	234.03	
For DR 11 (160 PSI), Add	376.69	
33 14 13 23-0460 EA 18" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	934.86	98.22
For DR 26 (65 PSI), Deduct	-117.36	
For DR 19 (89 PSI), Add	57.62	
For DR 17 (100 PSI), Add	142.26	
For DR 15.5 (110 PSI), Add	208.33	
For DR 13.5 (128 PSI), Add	325.18	
For DR 11 (160 PSI), Add	523.40	
33 14 13 23-0461 EA 20" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,338.99	116.01
For DR 26 (65 PSI), Deduct	-180.92	
For DR 19 (89 PSI), Add	88.83	
For DR 17 (100 PSI), Add	219.32	
For DR 15.5 (110 PSI), Add	321.18	
For DR 13.5 (128 PSI), Add	501.32	
For DR 11 (160 PSI), Add	806.91	
33 14 13 23-0462 EA 24" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,755.40	140.63
For DR 26 (65 PSI), Deduct	-244.49	
For DR 19 (89 PSI), Add	120.05	
For DR 17 (100 PSI), Add	296.38	
For DR 15.5 (110 PSI), Add	434.03	
For DR 13.5 (128 PSI), Add	677.46	
For DR 11 (160 PSI), Add	1,090.41	
33 14 13 26 Galvanized Steel Public Water Utility Distribution Piping (33 14 13)		
See CSI section 22 11 16 00-0013 for galvanized steel pipe.		
33 14 13 36 Steel Public Water Utility Distribution Piping (33 14 13)		
33 14 13 36-0001 Steel Piping (33 14 13 36)		
33 14 13 36-0002 Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0001)		
Note: ASTM A252 steel pipe.		
33 14 13 36-0003 Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)		
33 14 13 36-0004 LF 8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	45.54	22.04
For >1,000, Deduct	-2.28	
33 14 13 36-0005 LF 8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	49.41	22.04
For >1,000, Deduct	-2.47	
33 14 13 36-0006 LF 10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	51.64	24.04
For >1,000, Deduct	-2.58	
33 14 13 36-0007 LF 10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	56.53	24.04
For >1,000, Deduct	-2.83	
33 14 13 36-0008 LF 12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	57.94	25.19
For >1,000, Deduct	-2.90	
33 14 13 36-0009 LF 12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	61.74	25.19
For >1,000, Deduct	-3.09	
33 14 13 36-0010 LF 14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	86.11	27.84
For >1,000, Deduct	-4.31	
33 14 13 36-0011 LF 14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	70.12	27.84
For >1,000, Deduct	-3.51	
33 14 13 36-0012 LF 16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	70.99	29.38
For >1,000, Deduct	-3.55	
33 14 13 36-0013 LF 16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	73.34	29.38
For >1,000, Deduct	-3.67	
33 14 13 36-0014 LF 18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	84.06	33.05
For >1,000, Deduct	-4.20	
33 14 13 36-0015 LF 20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	87.91	33.05
For >1,000, Deduct	-4.40	
33 14 13 36-0016 5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)		
33 14 13 36-0017 LF 12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	74.42	43.41
For >1,000, Deduct	-3.72	
33 14 13 36-0018 LF 14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	85.47	47.74
For >1,000, Deduct	-4.27	
33 14 13 36-0019 LF 16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	92.80	49.91
For >1,000, Deduct	-4.64	
33 14 13 36-0020 LF 18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	104.55	56.42
For >1,000, Deduct	-5.23	
33 14 13 36-0021 LF 18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	107.16	56.42
For >1,000, Deduct	-5.36	
33 14 13 36-0022 LF 20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	109.57	56.42
For >1,000, Deduct	-5.48	
33 14 13 36-0023 LF 20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	112.35	56.42
For >1,000, Deduct	-5.62	
33 14 13 36-0024 LF 24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	129.49	65.10
For >1,000, Deduct	-6.47	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0025 LF 24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	138.10	65.10
For >1,000, Deduct	-6.91	
33 14 13 36-0026 LF 24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	159.22	65.10
For >1,000, Deduct	-7.96	
33 14 13 36-0027 LF 30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	156.94	75.95
For >1,000, Deduct	-7.85	
33 14 13 36-0028 LF 30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	160.46	75.95
For >1,000, Deduct	-8.02	
33 14 13 36-0029 LF 30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	193.67	75.95
For >1,000, Deduct	-9.68	
33 14 13 36-0030 LF 36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	175.20	75.95
For >1,000, Deduct	-8.76	
33 14 13 36-0031 LF 36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	207.10	91.15
For >1,000, Deduct	-10.36	
33 14 13 36-0032 LF 36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	232.86	91.15
For >1,000, Deduct	-11.64	
33 14 13 36-0033 LF 36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	226.43	91.15
For >1,000, Deduct	-11.32	
33 14 13 36-0034 LF 42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	315.82	102.00
For >1,000, Deduct	-15.79	
33 14 13 36-0035 LF 42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	223.97	102.00
For >1,000, Deduct	-11.20	
33 14 13 36-0036 LF 48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	360.39	115.01
For >1,000, Deduct	-18.02	
33 14 13 36-0037 LF 54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	386.35	130.21
For >1,000, Deduct	-19.32	
33 14 13 36-0038 LF 48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	248.02	115.01
For >1,000, Deduct	-12.40	
33 14 13 36-0039 LF 54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	415.69	130.21
For >1,000, Deduct	-20.78	
33 14 13 36-0040 LF 60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	469.93	151.90
For >1,000, Deduct	-23.50	
33 14 13 36-0041 LF 66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	365.61	151.90
For >1,000, Deduct	-18.28	
33 14 13 36-0042 LF 72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	459.91	123.89
For >1,000, Deduct	-23.00	
33 14 13 36-0043 LF 78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	695.51	123.89
For >1,000, Deduct	-34.78	

33 14 13 36-0044 Flexible Couplings (Dresser Style 38) (33 14 13 36-0001)

33 14 13 36-0045 EA 2" Dresser Coupling For Plain End Welded Steel Pipe.....	102.36	22.87
33 14 13 36-0046 EA 3" Dresser Coupling For Plain End Welded Steel Pipe.....	148.92	43.98
33 14 13 36-0047 EA 4" Dresser Coupling For Plain End Welded Steel Pipe.....	198.16	58.06
33 14 13 36-0048 EA 6" Dresser Coupling For Plain End Welded Steel Pipe.....	316.89	87.96
33 14 13 36-0049 EA 8" Dresser Coupling For Plain End Welded Steel Pipe.....	415.64	110.83
33 14 13 36-0050 EA 10" Dresser Coupling For Plain End Welded Steel Pipe.....	563.38	129.22
33 14 13 36-0051 EA 12" Dresser Coupling For Plain End Welded Steel Pipe.....	667.31	161.95
33 14 13 36-0052 EA 14" Dresser Coupling For Plain End Welded Steel Pipe.....	718.73	161.95
33 14 13 36-0053 EA 16" Dresser Coupling For Plain End Welded Steel Pipe.....	758.97	172.28
33 14 13 36-0054 EA 18" Dresser Coupling For Plain End Welded Steel Pipe.....	832.40	198.12
33 14 13 36-0055 EA 20" Dresser Coupling For Plain End Welded Steel Pipe.....	908.07	223.97
33 14 13 36-0056 EA 24" Dresser Coupling For Plain End Welded Steel Pipe.....	1,152.03	236.89
33 14 13 36-0057 EA 30" Dresser Coupling For Plain End Welded Steel Pipe.....	1,385.70	258.42
33 14 13 36-0058 EA 36" Dresser Coupling For Plain End Welded Steel Pipe.....	1,627.18	290.72
33 14 13 36-0059 EA 42" Dresser Coupling For Plain End Welded Steel Pipe.....	1,880.67	327.34
33 14 13 36-0060 EA 48" Dresser Coupling For Plain End Welded Steel Pipe.....	2,187.53	376.86
33 14 13 36-0061 EA 54" Dresser Coupling For Plain End Welded Steel Pipe.....	2,423.99	430.71
33 14 13 36-0062 EA 60" Dresser Coupling For Plain End Welded Steel Pipe.....	2,783.58	538.38
33 14 13 36-0063 EA 66" Dresser Coupling For Plain End Welded Steel Pipe.....	3,203.27	654.67
33 14 13 36-0064 EA 72" Dresser Coupling For Plain End Welded Steel Pipe.....	3,817.14	775.26

33 14 13 39 Copper Public Water Utility Distribution Piping (33 14 13)**33 14 13 39-0001 Type L Copper Water Distribution Piping (33 14 13 39)**

33 14 13 39-0002 LF 1/2" Type L Copper Water Distribution Pipe.....	5.17	1.64
33 14 13 39-0003 LF 3/4" Type L Copper Water Distribution Pipe.....	6.22	1.84
33 14 13 39-0004 LF 1" Type L Copper Water Distribution Pipe.....	8.14	2.04
33 14 13 39-0005 LF 1-1/4" Type L Copper Water Distribution Pipe.....	9.99	2.45
33 14 13 39-0006 LF 1-1/2" Type L Copper Water Distribution Pipe.....	12.18	3.27
33 14 13 39-0007 LF 2" Type L Copper Water Distribution Pipe.....	17.12	4.08
33 14 13 39-0008 LF 2-1/2" Type L Copper Water Distribution Pipe.....	22.03	4.90
33 14 13 39-0009 LF 3" Type L Copper Water Distribution Pipe.....	27.13	5.39
33 14 13 39-0010 LF 3-1/2" Type L Copper Water Distribution Pipe.....	36.60	6.78
33 14 13 39-0011 LF 4" Type L Copper Water Distribution Pipe.....	48.08	8.58
33 14 13 39-0012 LF 5" Type L Copper Water Distribution Pipe.....	75.08	10.70
33 14 13 39-0013 LF 6" Type L Copper Water Distribution Pipe.....	96.36	12.91
33 14 13 39-0014 LF 8" Type L Copper Water Distribution Pipe.....	160.27	14.46

33 14 13 39-0015 Type K Copper Water Distribution Piping (33 14 13 39)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 39-0016 LF 1/2" Type K Copper Water Distribution Pipe.....	5.43	1.64
33 14 13 39-0017 LF 3/4" Type K Copper Water Distribution Pipe.....	7.13	1.84
33 14 13 39-0018 LF 1" Type K Copper Water Distribution Pipe.....	9.04	2.04
33 14 13 39-0019 LF 1-1/4" Type K Copper Water Distribution Pipe.....	10.55	2.45
33 14 13 39-0020 LF 1-1/2" Type K Copper Water Distribution Pipe.....	13.01	3.27
33 14 13 39-0021 LF 2" Type K Copper Water Distribution Pipe.....	18.23	4.08
33 14 13 39-0022 LF 2-1/2" Type K Copper Water Distribution Pipe.....	25.11	4.90
33 14 13 39-0023 LF 3" Type K Copper Water Distribution Pipe.....	31.75	5.39
33 14 13 39-0024 LF 3-1/2" Type K Copper Water Distribution Pipe.....	42.03	6.78
33 14 13 39-0025 LF 4" Type K Copper Water Distribution Pipe.....	56.32	8.58
33 14 13 39-0026 LF 5" Type K Copper Water Distribution Pipe.....	92.13	10.70
33 14 13 39-0027 LF 6" Type K Copper Water Distribution Pipe.....	127.01	12.91
33 14 13 39-0028 LF 8" Type K Copper Water Distribution Pipe.....	216.85	14.46

33 14 13 43 Public Water Utility Distribution Piping Coatings And Wraps (33 14 13)

33 14 13 43-0001 Pipe Coatings (33 14 13 43)

33 14 13 43-0002 Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating (33 14 13 43-0001)

33 14 13 43-0003 LF 12" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	4.40
33 14 13 43-0004 LF 14" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	5.84
33 14 13 43-0005 LF 16" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	6.67
33 14 13 43-0006 LF 18" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	7.01
33 14 13 43-0007 LF 20" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	7.54
33 14 13 43-0008 LF 24" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	8.79
33 14 13 43-0009 LF 30" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	11.54
33 14 13 43-0010 LF 36" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	18.24
33 14 13 43-0011 LF 42" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	39.31
33 14 13 43-0012 LF 48" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	44.93
33 14 13 43-0013 LF 54" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	50.54
33 14 13 43-0014 LF 60" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	56.16
33 14 13 43-0015 LF 66" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	61.77
33 14 13 43-0016 LF 72" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	67.36
33 14 13 43-0017 LF 78" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	73.01

33 14 13 43-0018 Cement Coating With Fiberglass Or Wire Mesh Reinforcing (33 14 13 43-0001)

Note: Applied at fabrication shop. Thickness ranging between 1" and 2".

33 14 13 43-0019 LF 4" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	7.64
33 14 13 43-0020 LF 6" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	9.40
33 14 13 43-0021 LF 8" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	11.75
33 14 13 43-0022 LF 10" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	13.09
33 14 13 43-0023 LF 12" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	14.78
33 14 13 43-0024 LF 14" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	17.30
33 14 13 43-0025 LF 16" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	19.66
33 14 13 43-0026 LF 18" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	22.18
33 14 13 43-0027 LF 20" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	24.65
33 14 13 43-0028 LF 24" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	29.57
33 14 13 43-0029 LF 30" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	36.96
33 14 13 43-0030 LF 36" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	44.35
33 14 13 43-0031 LF 42" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	25.10
33 14 13 43-0032 LF 48" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	28.68
33 14 13 43-0033 LF 54" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	32.27
33 14 13 43-0034 LF 60" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	35.85
33 14 13 43-0035 LF 66" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	39.44
33 14 13 43-0036 LF 72" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	43.02
33 14 13 43-0037 LF 78" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	46.61

33 14 13 43-0038 Pipe Lining (33 14 13 43)

33 14 13 43-0039 Cement Pipe Lining (33 14 13 43-0038)
Note: Shop applied.

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0040 LF 4" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	11.01	
For 1/2" Thick, Add	1.02	
33 14 13 43-0041 LF 6" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	13.67	
For 1/2" Thick, Add	1.25	
33 14 13 43-0042 LF 8" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	16.71	
For 1/2" Thick, Add	1.57	
33 14 13 43-0043 LF 10" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	21.62	
For 1/2" Thick, Add	1.96	
33 14 13 43-0044 LF 12" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	26.58	
For 1/2" Thick, Add	2.36	
33 14 13 43-0045 LF 14" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	33.76	
For 1/2" Thick, Add	2.76	
33 14 13 43-0046 LF 16" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	43.40	
For 1/2" Thick, Add	3.13	
33 14 13 43-0047 LF 18" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	51.70	
For 1/2" Thick, Add	3.00	
33 14 13 43-0048 LF 20" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	62.18	
For 1/2" Thick, Add	3.34	
33 14 13 43-0049 LF 24" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	75.35	
For 1/2" Thick, Add	4.01	
33 14 13 43-0050 LF 30" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	90.87	
For 1/2" Thick, Add	5.01	
33 14 13 43-0051 LF 36" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	109.33	
For 1/2" Thick, Add	6.01	
33 14 13 43-0052 LF 42" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	127.58	
For 1/2" Thick, Add	5.15	
33 14 13 43-0053 LF 48" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	145.75	
For 1/2" Thick, Add	5.89	
33 14 13 43-0054 LF 54" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	163.99	
For 1/2" Thick, Add	6.63	
33 14 13 43-0055 LF 60" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	182.23	
For 1/2" Thick, Add	7.36	
33 14 13 43-0056 LF 66" Outside Diameter, 7/16" Thick Cement Pipe Lining.....	200.40	
For 1/2" Thick, Add	4.32	
33 14 13 43-0057 LF 72" Outside Diameter, 7/16" Thick Cement Pipe Lining.....	218.65	
For 1/2" Thick, Add	4.71	
33 14 13 43-0058 LF 78" Outside Diameter, 7/16" Thick Cement Pipe Lining.....	236.89	
For 1/2" Thick, Add	5.10	
33 14 13 43-0059 Cement Fitting Lining (33 14 13 43-0038)		
Note: Shop applied.		
33 14 13 43-0060 EA 4" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	11.01	
For 1/2" Thick, Add	1.02	
33 14 13 43-0061 EA 6" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	13.67	
For 1/2" Thick, Add	1.25	
33 14 13 43-0062 EA 8" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	21.27	
For 1/2" Thick, Add	2.04	
33 14 13 43-0063 EA 10" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	34.90	
For 1/2" Thick, Add	3.13	
33 14 13 43-0064 EA 12" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	53.16	
For 1/2" Thick, Add	4.71	
33 14 13 43-0065 EA 14" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	78.33	
For 1/2" Thick, Add	6.34	
33 14 13 43-0066 EA 16" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	114.71	
For 1/2" Thick, Add	8.14	
33 14 13 43-0067 EA 18" Outside Diameter, 5/16" Thick Cement Fittings Lining.....	155.11	
For 1/2" Thick, Add	9.01	
33 14 13 43-0068 EA 20" Outside Diameter, 5/16" Thick Cement Fitting Lining.....	207.16	
For 1/2" Thick, Add	11.12	
33 14 13 43-0069 EA 24" Outside Diameter, 5/16" Thick Cement Fitting Lining.....	301.41	
For 1/2" Thick, Add	16.02	
33 14 13 43-0070 8 Mil Polyethylene Encasement Tubing (33 14 13 43)		
Note: ANSI/AWWA C105/A21.5-99 section 4.2.		
33 14 13 43-0071 LF 3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing.....	0.83	
33 14 13 43-0072 LF 10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.38	
33 14 13 43-0073 LF 14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.71	
33 14 13 43-0074 LF 18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing.....	2.17	
33 14 13 43-0075 LF 24" Diameter, 8 Mil Polyethylene Encasement Tubing.....	3.01	
33 14 13 43-0076 LF 30" Diameter, 8 Mil Polyethylene Encasement Tubing.....	3.87	
33 14 13 43-0077 LF 36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing.....	4.93	
33 14 13 43-0078 LF 48" Diameter, 8 Mil Polyethylene Encasement Tubing.....	5.87	
33 14 13 43-0079 LF 54" Diameter, 8 Mil Polyethylene Encasement Tubing.....	6.99	
33 14 13 43-0080 LF 60" Diameter, 8 Mil Polyethylene Encasement Tubing.....	7.75	
33 14 13 53 Public Water Utility Distribution Piping Saddles And Adapters (33 14 13)		
33 14 13 53-0001 Double Stud Stainless Steel Service Saddles (33 14 13 53)		
Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.		
33 14 13 53-0002 EA 4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	221.21	
33 14 13 53-0003 EA 4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	319.45	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0004	EA	4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	329.05	
33 14 13 53-0005	EA	6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	268.18	
33 14 13 53-0006	EA	6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	340.58	
33 14 13 53-0007	EA	8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	279.61	
33 14 13 53-0008	EA	8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	356.29	
33 14 13 53-0009	EA	10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	316.76	
33 14 13 53-0010	EA	10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	375.26	
33 14 13 53-0011	EA	12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	329.83	
33 14 13 53-0012	EA	12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	386.09	
33 14 13 53-0013 Double Bale Epoxy Coated Ductile Iron Body Service Saddles <small>(33 14 13 53)</small>				
Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.				
33 14 13 53-0014	EA	1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	179.04	
33 14 13 53-0015	EA	2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	179.19	
33 14 13 53-0016	EA	2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	190.56	
33 14 13 53-0017	EA	2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	182.63	
33 14 13 53-0018	EA	3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	195.48	
33 14 13 53-0019	EA	3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	217.48	
33 14 13 53-0020	EA	3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	231.46	
33 14 13 53-0021	EA	4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	210.71	
33 14 13 53-0022	EA	4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	232.92	
33 14 13 53-0023	EA	4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	244.58	
33 14 13 53-0024	EA	5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	222.21	
33 14 13 53-0025	EA	5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	245.17	
33 14 13 53-0026	EA	5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	256.78	
33 14 13 53-0027	EA	6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	234.17	
33 14 13 53-0028	EA	6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	256.42	
33 14 13 53-0029	EA	6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	267.84	
33 14 13 53-0030	EA	6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	407.40	
33 14 13 53-0031	EA	6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	417.00	
33 14 13 53-0032	EA	8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	254.59	
33 14 13 53-0033	EA	8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	281.83	
33 14 13 53-0034	EA	8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	292.32	
33 14 13 53-0035	EA	8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	485.89	
33 14 13 53-0036	EA	10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	287.44	
33 14 13 53-0037	EA	10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	320.48	
33 14 13 53-0038	EA	10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	545.67	
33 14 13 53-0039	EA	12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	314.17	
33 14 13 53-0040	EA	12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	349.21	
33 14 13 53-0041	EA	12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	361.40	
33 14 13 53-0042	EA	12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	612.29	
33 14 13 53-0043	EA	14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	371.29	
33 14 13 53-0044	EA	14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	398.36	
33 14 13 53-0045	EA	14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	430.39	
33 14 13 53-0046	EA	14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	761.04	
33 14 13 53-0047	EA	15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	380.89	
33 14 13 53-0048	EA	15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	437.66	
33 14 13 53-0049	EA	15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	455.95	
33 14 13 53-0050	EA	15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	819.70	
33 14 13 53-0051	EA	16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	398.11	
33 14 13 53-0052	EA	16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	457.04	
33 14 13 53-0053	EA	16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	475.85	
33 14 13 53-0054	EA	16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	853.23	
33 14 13 53-0055	EA	18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	443.53	
33 14 13 53-0056	EA	18" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	516.36	
33 14 13 53-0057	EA	20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	509.97	
33 14 13 53-0058	EA	20" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	566.04	
33 14 13 53-0059	EA	24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	532.95	
33 14 13 53-0060	EA	24" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	604.41	
33 14 13 53-0061 Double Bale Bronze Service Saddles <small>(33 14 13 53)</small>				
33 14 13 53-0062	EA	4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	254.19	
33 14 13 53-0063	EA	4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	278.92	
33 14 13 53-0064	EA	6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	289.55	
33 14 13 53-0065	EA	6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	314.53	
33 14 13 53-0066	EA	8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	324.66	
33 14 13 53-0067	EA	8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	341.23	
33 14 13 53-0068	EA	10" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	311.90	
33 14 13 53-0069	EA	10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	332.33	
33 14 13 53-0070	EA	12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	403.59	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 53-0071	EA	12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	437.79
33 14 13 53-0072	EA	14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	624.23
33 14 13 53-0073	EA	14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	708.53
33 14 13 53-0074	EA	16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	728.92
33 14 13 53-0075	EA	16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	816.85

33 14 13 53-0076 Stainless Steel Double Straps, Bronze Body Service Saddle (33 14 13 53)

Note: Taps are compression or NPT.

33 14 13 53-0077	EA	4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	268.57
33 14 13 53-0078	EA	4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	297.07
33 14 13 53-0079	EA	6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	306.53
33 14 13 53-0080	EA	6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	333.94
33 14 13 53-0081	EA	8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	345.66
33 14 13 53-0082	EA	8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	363.36
33 14 13 53-0083	EA	10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	391.95
33 14 13 53-0084	EA	10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	420.28
33 14 13 53-0085	EA	12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	422.84
33 14 13 53-0086	EA	12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	459.51
33 14 13 53-0087	EA	14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	671.92
33 14 13 53-0088	EA	14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	775.97
33 14 13 53-0089	EA	16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	785.50
33 14 13 53-0090	EA	16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	857.92
33 14 13 53-0091	EA	18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,115.39
33 14 13 53-0092	EA	18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,115.39
33 14 13 53-0093	EA	20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,160.19
33 14 13 53-0094	EA	20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,160.19
33 14 13 53-0095	EA	24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,244.81
33 14 13 53-0096	EA	24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,244.81

33 14 13 53-0097 Ductile Iron Mechanical Joint Tapping Sleeve (33 14 13 53)

33 14 13 53-0098	EA	4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,240.67
33 14 13 53-0099	EA	6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,495.91
33 14 13 53-0100	EA	8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,793.11
33 14 13 53-0101	EA	8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,901.60
33 14 13 53-0102	EA	10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,947.77
33 14 13 53-0103	EA	10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,100.94
33 14 13 53-0104	EA	10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,164.71
33 14 13 53-0105	EA	12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,091.77
33 14 13 53-0106	EA	12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,244.33
33 14 13 53-0107	EA	12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,620.92
33 14 13 53-0108	EA	12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,713.97
33 14 13 53-0109	EA	14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,326.68
33 14 13 53-0110	EA	14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,499.50
33 14 13 53-0111	EA	14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,575.34
33 14 13 53-0112	EA	14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,606.00
33 14 13 53-0113	EA	14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,849.09
33 14 13 53-0114	EA	16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,832.83
33 14 13 53-0115	EA	16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,852.04
33 14 13 53-0116	EA	16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,045.55
33 14 13 53-0117	EA	16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,088.58
33 14 13 53-0118	EA	16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,136.30
33 14 13 53-0119	EA	16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,068.15
33 14 13 53-0120	EA	16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,482.58
33 14 13 53-0121	EA	18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,563.11
33 14 13 53-0122	EA	18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,004.34
33 14 13 53-0123	EA	18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,119.43
33 14 13 53-0124	EA	18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,478.04
33 14 13 53-0125	EA	20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,896.05
33 14 13 53-0126	EA	20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,554.88
33 14 13 53-0127	EA	20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,721.07
33 14 13 53-0128	EA	20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,783.89
33 14 13 53-0129	EA	20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,110.40
33 14 13 53-0130	EA	20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,426.18
33 14 13 53-0131	EA	20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,660.29
33 14 13 53-0132	EA	24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,773.00
33 14 13 53-0133	EA	24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,919.58
33 14 13 53-0134	EA	24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,960.13
33 14 13 53-0135	EA	24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	15,311.05
33 14 13 53-0136	EA	24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	15,505.95
33 14 13 53-0137	EA	24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	15,544.35
33 14 13 53-0138	EA	24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	15,973.96
33 14 13 53-0139	EA	24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,174.50

33 14 13 53-0140 Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve (33 14 13 53)

33 14 13 53-0141	EA	4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,024.25
33 14 13 53-0142	EA	6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,078.46
33 14 13 53-0143	EA	6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,184.34
33 14 13 53-0144	EA	8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,210.99



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0145	EA		8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,261.94	
33 14 13 53-0146	EA		8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,462.85	
33 14 13 53-0147	EA		10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,317.42	
33 14 13 53-0148	EA		10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,366.93	
33 14 13 53-0149	EA		10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,543.09	
33 14 13 53-0150	EA		10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,178.64	
33 14 13 53-0151	EA		12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,475.06	
33 14 13 53-0152	EA		12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,549.39	
33 14 13 53-0153	EA		12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,722.69	
33 14 13 53-0154	EA		12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,291.65	
33 14 13 53-0155	EA		12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,509.86	
33 14 13 53-0156	EA		14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,963.83	
33 14 13 53-0157	EA		14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,024.70	
33 14 13 53-0158	EA		14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,400.75	
33 14 13 53-0159	EA		14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,867.84	
33 14 13 53-0160	EA		14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,170.30	
33 14 13 53-0161	EA		16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,342.24	
33 14 13 53-0162	EA		16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,405.20	
33 14 13 53-0163	EA		16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,652.90	
33 14 13 53-0164	EA		16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,322.54	
33 14 13 53-0165	EA		16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,478.02	
33 14 13 53-0166	EA		18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,465.78	
33 14 13 53-0167	EA		18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,582.80	
33 14 13 53-0168	EA		18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,746.78	
33 14 13 53-0169	EA		18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,535.40	
33 14 13 53-0170	EA		18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,690.69	
33 14 13 53-0171	EA		20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,992.80	
33 14 13 53-0172	EA		20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,055.61	
33 14 13 53-0173	EA		20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,428.13	
33 14 13 53-0174	EA		20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,060.58	
33 14 13 53-0175	EA		20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,326.83	
33 14 13 53-0176	EA		24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,220.48	
33 14 13 53-0177	EA		24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,362.47	
33 14 13 53-0178	EA		24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,555.49	
33 14 13 53-0179	EA		24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,454.65	
33 14 13 53-0180	EA		24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,616.73	
33 14 13 53-0181	Stainless Steel Flange, Stainless Steel Tapping Sleeve <small>(33 14 13 53)</small>				
33 14 13 53-0182	EA		4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,197.06	
33 14 13 53-0183	EA		6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,296.72	
33 14 13 53-0184	EA		6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,374.53	
33 14 13 53-0185	EA		8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,393.56	
33 14 13 53-0186	EA		8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,483.74	
33 14 13 53-0187	EA		8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,760.38	
33 14 13 53-0188	EA		10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,600.07	
33 14 13 53-0189	EA		10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,700.46	
33 14 13 53-0190	EA		10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,948.04	
33 14 13 53-0191	EA		10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,667.50	
33 14 13 53-0192	EA		12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,822.05	
33 14 13 53-0193	EA		12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,960.23	
33 14 13 53-0194	EA		12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,288.48	
33 14 13 53-0195	EA		12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,717.25	
33 14 13 53-0196	EA		12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,044.19	
33 14 13 53-0197	EA		14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,078.16	
33 14 13 53-0198	EA		14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,248.49	
33 14 13 53-0199	EA		14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,618.57	
33 14 13 53-0200	EA		14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,047.75	
33 14 13 53-0201	EA		14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,273.03	
33 14 13 53-0202	EA		16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,549.92	
33 14 13 53-0203	EA		16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,784.12	
33 14 13 53-0204	EA		16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,961.71	
33 14 13 53-0205	EA		16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,423.45	
33 14 13 53-0206	EA		16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,735.51	
33 14 13 53-0207	EA		18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,801.00	
33 14 13 53-0208	EA		18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,152.83	
33 14 13 53-0209	EA		18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,338.34	
33 14 13 53-0210	EA		18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,743.65	
33 14 13 53-0211	EA		18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	4,281.07	
33 14 13 53-0212	EA		20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,012.60	
33 14 13 53-0213	EA		20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,363.51	
33 14 13 53-0214	EA		20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,513.54	
33 14 13 53-0215	EA		20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	4,270.94	
33 14 13 53-0216	EA		20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	4,690.89	
33 14 13 53-0217	EA		24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,586.06	
33 14 13 53-0218	EA		24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,632.85	
33 14 13 53-0219	EA		24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,813.48	
33 14 13 53-0220	EA		24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	4,718.25	
33 14 13 53-0221	EA		24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	5,199.45	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0222			Ductile Iron Body, Flanged Coupling Adapter (33 14 13 53)		
33 14 13 53-0223	EA		3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	298.96	49.61
33 14 13 53-0224	EA		4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	374.47	62.55
33 14 13 53-0225	EA		6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	491.02	86.27
33 14 13 53-0226	EA		8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	639.87	101.37
33 14 13 53-0227	EA		10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	1,019.96	114.31
33 14 13 53-0228	EA		12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	1,138.88	129.41
33 14 13 53-0229			Steel Body, Flanged Coupling Adapter (33 14 13 53)		
33 14 13 53-0230	EA		3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	443.92	49.61
33 14 13 53-0231	EA		4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	523.62	62.55
33 14 13 53-0232	EA		6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	698.20	86.27
33 14 13 53-0233	EA		8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	855.49	101.37
33 14 13 53-0234	EA		10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	1,047.62	114.31
33 14 13 53-0235	EA		12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	1,222.06	129.41
33 14 13 53-0236	EA		14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	1,455.74	142.35
33 14 13 53-0237	EA		16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	1,728.58	155.29
33 14 13 53-0238	EA		18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	2,045.64	170.81
33 14 13 53-0239	EA		20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	2,422.07	187.90
33 14 13 53-0240			Steel Body, Flanged-Lock Restrained Coupling Adapters (33 14 13 53)		
33 14 13 53-0241	EA		4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	384.16	62.55
33 14 13 53-0242	EA		6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	514.95	86.27
33 14 13 53-0243	EA		8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	568.26	101.37
33 14 13 53-0244	EA		10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	840.93	114.31
33 14 13 53-0245	EA		12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,076.47	129.41
33 14 13 53-0246	EA		14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,208.30	142.35
33 14 13 53-0247	EA		16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,424.36	155.29
33 14 13 53-0248	EA		18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,599.62	170.81
33 14 13 53-0249	EA		20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,928.21	187.90
33 14 13 53-0250	EA		24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	2,329.33	206.71
33 14 13 53-0251	EA		30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	4,919.16	227.32
33 14 13 53-0252	EA		36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	6,657.67	250.10
33 14 13 53-0253			Ductile Iron Body, Omni Coupling System (33 14 13 53)		
33 14 13 53-0254	EA		2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	131.15	34.51
33 14 13 53-0255	EA		2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	162.30	40.98
33 14 13 53-0256	EA		3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	201.29	49.61
33 14 13 53-0257	EA		4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	252.71	62.55
33 14 13 53-0258	EA		6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	336.20	86.27
33 14 13 53-0259	EA		8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	409.62	101.37
33 14 13 53-0260	EA		10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	515.85	114.31
33 14 13 53-0261	EA		12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	604.68	129.41
33 14 13 53-0262	EA		14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	863.30	142.35
33 14 13 53-0263	EA		16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	1,084.36	155.29
33 14 15 Water Service Connections (33 14)					
33 14 15 23 Water Service Hydrants (33 14 15)					
33 14 15 23-0001 Yard Hydrants (33 14 15 23)					
			Note: With 3/4" hose thread outlet.		
33 14 15 23-0002	EA		2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	323.93	28.66
33 14 15 23-0003	EA		4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	349.00	28.66
33 14 15 23-0004	EA		6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	374.08	28.66
33 14 15 23-0005	EA		2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	245.75	36.31
33 14 15 23-0006	EA		4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	256.52	36.31
33 14 15 23-0007	EA		6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	267.29	36.31
33 14 15 23-0008 Sanitary Yard Hydrants (33 14 15 23)					
			Note: With 3/4" hose thread outlet.		
33 14 15 23-0009	EA		2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,504.76	59.72
33 14 15 23-0010	EA		4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,583.12	59.72
33 14 15 23-0011	EA		6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,661.48	59.72
33 14 15 23-0012 Flushing Hydrants (33 14 15 23)					
33 14 15 23-0013	EA		2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth.....	515.36	36.84
33 14 19 Valves and Hydrants for Water Utility Service (33 14)					
			Note: Flanged valves excludes bolt and gasket set.		
33 14 19 00-0001 Accessories For Valves (33 14 19)					
33 14 19 00-0002	EA		1' Valve Extension Stem.....	78.90	
			For Each Additional LF, Add	5.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0003 EA Up to 80" Long Indicator Post Telescoping Barrel Assembly.....	965.21	87.96
Note: Excludes valve.		
33 14 19 00-0004 EA >80" To 114" Long Indicator Post Telescoping Barrel Assembly.....	1,093.03	96.75
Note: Excludes valve.		
33 14 19 00-0005 EA Adjust Water Valve Box To Grade.....	87.96	
33 14 19 00-0006 Roadway Or Curb Valve Boxes (33 14 19)		
33 14 19 00-0007 Round Head, Cast Iron Service, Roadway Or Valve Boxes (33 14 19 00-0006)		
33 14 19 00-0008 EA 36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	177.45	11.61
Note: Includes cover, top section and bottom section.		
33 14 19 00-0009 EA 36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	205.84	11.61
Note: Includes cover, top section and bottom section.		
33 14 19 00-0010 EA 42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	207.15	11.61
Note: Includes cover, top section and bottom section.		
33 14 19 00-0011 EA 9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	53.73	5.81
33 14 19 00-0012 EA 16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	61.24	5.81
33 14 19 00-0013 EA 24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	72.55	5.81
33 14 19 00-0014 EA 36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box.....	267.07	14.51
Note: Includes cover, top section and bottom section.		
33 14 19 00-0015 EA 45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	461.76	20.31
Note: Includes cover, top section, bottom section and #6 round base.		
33 14 19 00-0016 EA 45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	514.70	20.31
Note: Includes cover, top section, bottom section and #6 round base.		
33 14 19 00-0017 EA 24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	277.58	14.51
Note: Includes cover, top section and bottom section.		
33 14 19 00-0018 EA 36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	290.23	14.51
Note: Includes cover, top section and bottom section.		
33 14 19 00-0019 EA 24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	280.56	14.51
Note: Includes cover, top section and bottom section.		
33 14 19 00-0020 EA 12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	101.77	5.81
33 14 19 00-0021 EA 18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	172.29	23.89
33 14 19 00-0022 EA 22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	178.03	24.84
33 14 19 00-0023 EA 30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	198.14	25.80
33 14 19 00-0024 EA 36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Box.....	270.94	27.24
33 14 19 00-0025 EA 48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	326.31	28.66
33 14 19 00-0026 EA 18" Cast Iron Service Box Extension Section.....	76.21	
33 14 19 00-0027 Plastic Roadway Grade Water Meter Box And Cover (33 14 19 00-0006)		
33 14 19 00-0028 EA 12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover.....	248.63	33.44
33 14 19 00-0029 EA 9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover.....	186.96	23.89
33 14 19 00-0030 EA Cast Iron Lid For Plastic Meter Box.....	55.72	
33 14 19 00-0031 Traffic Valve Box And Lid (33 14 19 00-0006)		
33 14 19 00-0032 EA 10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5).....	143.68	
33 14 19 00-0033 EA 14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12).....	425.30	
33 14 19 00-0034 Roadway Utility Box (33 14 19)		
33 14 19 00-0035 Utility Box (33 14 19 00-0034)		
Note: Christy Concrete Products.		
33 14 19 00-0036 B3 Utility Box, 9-3/8" x 15-1/2" (33 14 19 00-0035)		
33 14 19 00-0037 EA 9-3/8" x 15-1/2" Precast Concrete Utility Box.....	69.39	43.62
33 14 19 00-0038 EA Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box.....	52.40	4.85
33 14 19 00-0039 EA Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box.....	24.71	4.85
33 14 19 00-0040 EA Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box.....	108.69	4.85
33 14 19 00-0041 EA 12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box.....	37.93	9.69
33 14 19 00-0042 EA 3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box.....	50.17	9.69
33 14 19 00-0043 B9 Utility Box, 10-1/4" x 17-1/4" (33 14 19 00-0035)		
33 14 19 00-0044 EA 10-1/4" x 17-1/4" Precast Concrete Utility Box.....	86.87	58.16
33 14 19 00-0045 EA Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box.....	61.53	5.81
33 14 19 00-0046 EA Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box.....	27.88	5.81
33 14 19 00-0047 EA Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box.....	113.79	4.85
33 14 19 00-0048 EA 13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box.....	41.30	9.69
33 14 19 00-0049 EA 5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box.....	56.91	14.54
33 14 19 00-0050 EA 12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box.....	77.12	26.65
33 14 19 00-0051 B12 Utility Box, 12" x 20" (33 14 19 00-0035)		
33 14 19 00-0052 EA 12" x 20" Precast Concrete Utility Box.....	95.01	63.00
33 14 19 00-0053 EA Cast Iron Lid For 12" x 20" Utility Box.....	107.51	7.27
33 14 19 00-0054 EA Reinforced Concrete Lid For 12" x 20" Utility Box.....	39.33	9.69
33 14 19 00-0055 EA Steel Checkered Plate Cover For 12" x 20" Utility Box.....	156.30	9.69
33 14 19 00-0056 EA 12" High Reinforced Concrete Extension For 12" x 20" Utility Box.....	99.70	33.93

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33 14 19 00-0057	B16 Utility Box, 12" x 22-1/4" (33 14 19 00-0035)		
33 14 19 00-0058	EA 12" x 22-1/4" Precast Concrete Utility Box.....	109.95	73.66
33 14 19 00-0059	EA Cast Iron Lid For 12" x 22-1/4" Utility Box.....	122.99	9.69
33 14 19 00-0060	EA Reinforced Concrete Lid For 12" x 22-1/4" Utility Box.....	46.27	9.69
33 14 19 00-0061	EA Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box.....	157.13	9.69
33 14 19 00-0062	EA 16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box.....	67.92	16.47
33 14 19 00-0063	EA 12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box.....	100.85	33.93
33 14 19 00-0064	B30 Utility Box, 13-1/4" x 24" (33 14 19 00-0035)		
33 14 19 00-0065	EA 13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX).....	131.68	87.23
33 14 19 00-0066	EA Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D).....	64.85	15.51
33 14 19 00-0067	EA Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G).....	194.88	12.60
33 14 19 00-0068	EA 16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL).....	67.92	16.47
33 14 19 00-0069	EA 5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA).....	106.00	27.13
33 14 19 00-0070	EA 6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6).....	79.94	18.41
33 14 19 00-0071	EA 12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12).....	130.33	43.62
33 14 19 00-0072	B36 Utility Box, 17-1/4" x 30" (33 14 19 00-0035)		
33 14 19 00-0073	EA 17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX).....	170.30	110.50
33 14 19 00-0074	EA Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D).....	107.08	26.65
33 14 19 00-0075	EA Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-61D).....	246.99	18.41
33 14 19 00-0076	EA 20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL).....	107.63	34.90
33 14 19 00-0077	EA 6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA).....	161.36	38.77
33 14 19 00-0078	EA 12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12).....	171.95	56.22
33 14 19 00-0079	B40 Utility Box, 24-1/2" x 36" (33 14 19 00-0035)		
33 14 19 00-0080	EA 24-1/2" x 36" Precast Concrete Utility Box.....	322.62	170.59
33 14 19 00-0081	EA Reinforced Concrete Lid For 24-1/2" x 36" Utility Box.....	283.82	63.97
33 14 19 00-0082	EA Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box.....	352.82	28.10
33 14 19 00-0083	EA 30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box.....	240.05	60.09
33 14 19 00-0084	EA 10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box.....	253.90	63.00
33 14 19 00-0085	B48 Utility Box, 30-1/4" x 48-1/4" (33 14 19 00-0035)		
33 14 19 00-0086	EA 30-1/4" x 48-1/4" Precast Concrete Utility Box.....	428.59	193.85
33 14 19 00-0087	EA 1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box.....	409.13	105.65
33 14 19 00-0088	EA 2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box.....	487.62	105.65
33 14 19 00-0089	EA 2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box.....	562.62	48.46
33 14 19 00-0090	EA 36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box.....	393.44	130.85
33 14 19 00-0091	EA 10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box.....	324.41	88.20
33 14 19 00-0092	Water Utility Distribution Valves (33 14 19)		
33 14 19 00-0093	Angle Valves (33 14 19 00-0092)		
	Note: For connecting meters to water service.		
33 14 19 00-0094	Threaded, Class 150, Bronze Angle Valve (33 14 19 00-0093)		
	Note: Nibco T-335Y		
33 14 19 00-0095	EA 1/2" Threaded, Class 150, Bronze Angle Valve.....	88.86	15.29
33 14 19 00-0096	EA 3/4" Threaded, Class 150, Bronze Angle Valve.....	119.85	20.55
33 14 19 00-0097	EA 1" Threaded, Class 150, Bronze Angle Valve.....	161.76	25.33
33 14 19 00-0098	EA 1-1/4" Threaded, Class 150, Bronze Angle Valve.....	208.33	31.82
33 14 19 00-0099	EA 1-1/2" Threaded, Class 150, Bronze Angle Valve.....	260.49	36.79
33 14 19 00-0100	EA 2" Threaded, Class 150, Bronze Angle Valve.....	389.92	43.00
33 14 19 00-0101	EA 2-1/2" Threaded, Class 150, Bronze Angle Valve.....	625.75	58.67
33 14 19 00-0102	EA 3" Threaded, Class 150, Bronze Angle Valve.....	952.37	67.73
33 14 19 00-0103	Butterfly Valves (33 14 19 00-0092)		
33 14 19 00-0104	Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valves (33 14 19 00-0103)		
33 14 19 00-0105	EA 3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S1*MS-3-HD8).....	1,223.18	162.45
33 14 19 00-0106	EA 3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S1*MS-3-CW8).....	1,395.31	162.45
33 14 19 00-0107	EA 4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S1*MS-3-HD8).....	1,351.20	251.30
33 14 19 00-0108	EA 4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S1*MS-3-CW8).....	1,523.33	251.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0109 EA 6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 6,F1,CI,NBRN-NBR, 150B,CI-S1*MS-3-HD8).....	1,594.66	298.68
33 14 19 00-0110 EA 6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 6,F1,CI,NBRN-NBR, 150B,CI-S1*MS-3-CW8).....	1,767.86	298.68
33 14 19 00-0111 EA 8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 8,F1,CI,NBRN-NBR, 150B,CI-S1*MS-3-HD8).....	1,845.74	381.66
33 14 19 00-0112 EA 8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 8,F1,CI,NBRN-NBR, 150B,CI-S1*MS-3-CW8).....	2,018.95	381.66
33 14 19 00-0113 EA 10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 10,F1,CI,NBRN-NBR, 150B,CI-S1*MS-3-HD16).....	2,419.32	464.63
33 14 19 00-0114 EA 10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 10,F1,CI,NBRN-NBR, 150B,CI-S1*MS-3-CW20).....	2,857.17	464.63
33 14 19 00-0115 EA 12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 12,F1,CI,NBRN-NBR, 150B,CI-S1*MS-3-HD24).....	2,848.05	563.18
33 14 19 00-0116 EA 12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 12,F1,CI,NBRN-NBR, 150B,CI-S1*MS-3-CW20).....	3,206.29	563.18
33 14 19 00-0117 EA 14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 14,F1,CI,NBRN-NBR, 150B,CI-S1*MS-7-HD12).....	3,706.28	729.08
33 14 19 00-0118 EA 14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 14,F1,CI,NBRN-NBR, 150B,CI-S1*MS-7-CW20).....	4,294.74	729.08
33 14 19 00-0119 EA 16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 16,F1,CI,NBRN-NBR, 150B,CI-S1*MS-7-HD16).....	4,407.39	802.00
33 14 19 00-0120 EA 16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 16,F1,CI,NBRN-NBR, 150B,CI-S1*MS-7-CW20).....	4,781.77	802.00
33 14 19 00-0121 EA 18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 18,F1,CI,NBRN-NBR, 150B,CI-S1*MS-7-HD16).....	5,480.67	889.49
33 14 19 00-0122 EA 18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 18,F1,CI,NBRN-NBR, 150B,CI-S1*MS-7-CW20).....	48,887.05	889.49
33 14 19 00-0123 EA 20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 20,F1,CI,NBRN-NBR, 150B,CI-S1*MS-7-HD30).....	6,465.36	1,002.48
33 14 19 00-0124 EA 20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 20,F1,CI,NBRN-NBR, 150B,CI-S1*MS-7-CW20).....	6,702.04	1,002.48
33 14 19 00-0125 EA 24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 24,F1,DI,NBRN-NBR, 150B,DI-S1,S304G0*MS-7-HD30).....	9,457.09	1,230.33
33 14 19 00-0126 EA 24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 24,F1,DI,NBRN-NBR, 150B,DI-S1,S304G0*MS-7-CW20).....	9,691.65	1,230.33
33 14 19 00-0127 EA 30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 30,F1,DI,NBRN-NBR, 150B,DI-S1-S304G0*MG-WR1-HD16).....	21,359.84	2,095.52
33 14 19 00-0128 EA 36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 36,F1,DI,NBRN-NBR, 150B,DI-S1-S304G0*MG-WR1-HD16).....	25,064.48	2,794.03
33 14 19 00-0129 EA 42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 42,F1,DI,NBRN-NBR, 150B,DI-S1-S304G0*MG-WR1-HD32).....	32,283.33	4,191.04
33 14 19 00-0130 EA 48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 48,F1,DI,NBRN-NBR, 150B,DI-S1-S304G0*MG-WR3-HD24).....	39,287.25	5,238.79

33 14 19 00-0131
33 14 19 00-0132

Check Valves (33 14 19 00-0092)
Flanged, Swing Type Gravity Operated Check Valves (33 14 19 00-0131)
 Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.

33 14 19 00-0133 EA 2-1/2" Flanged, Swing Type Gravity Operated Check Valve.....	591.93	127.53
33 14 19 00-0134 EA 3" Flanged, Swing Type Gravity Operated Check Valve.....	619.15	149.53
33 14 19 00-0135 EA 4" Flanged, Swing Type Gravity Operated Check Valve.....	908.37	189.11
33 14 19 00-0136 EA 4" x 6" Flanged, Swing Type Gravity Operated Check Valve.....	1,190.06	284.55
33 14 19 00-0137 EA 4" x 8" Flanged, Swing Type Gravity Operated Check Valve.....	1,248.60	317.78
33 14 19 00-0138 EA 6" Flanged, Swing Type Gravity Operated Check Valve.....	1,198.75	316.65
33 14 19 00-0139 EA 6" x 8" Flanged, Swing Type Gravity Operated Check Valve.....	1,535.40	359.94
33 14 19 00-0140 EA 6" x 10" Flanged, Swing Type Gravity Operated Check Valve.....	1,617.29	404.61
33 14 19 00-0141 EA 8" Flanged, Swing Type Gravity Operated Check Valve.....	1,675.79	404.61
33 14 19 00-0142 EA 10" Flanged, Swing Type Gravity Operated Check Valve.....	2,720.71	492.57
33 14 19 00-0143 EA 12" Flanged, Swing Type Gravity Operated Check Valve.....	4,033.93	369.42
33 14 19 00-0144 EA 14" Flanged, Swing Type Gravity Operated Check Valve.....	5,571.91	729.08
33 14 19 00-0145 EA 16" Flanged, Swing Type Gravity Operated Check Valve.....	7,319.05	802.00

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0146 EA 18" Flanged, Swing Type Gravity Operated Check Valve.....	10,467.39	889.49
33 14 19 00-0147 EA 20" Flanged, Swing Type Gravity Operated Check Valve.....	12,168.60	1,002.48
33 14 19 00-0148 Combination Air Release Valves (33 14 19 00-0092)		
33 14 19 00-0149 EA 1" Combination Air Release Valve.....	434.28	18.47
33 14 19 00-0150 EA 2" Combination Air Release Valve.....	701.51	31.66
33 14 19 00-0151 Corporation Stop And Curb Valve (33 14 19 00-0092) Note: AWWA C800		
33 14 19 00-0152 Ball Corporation Valves (33 14 19 00-0151) Note: Mueller B-25000.		
33 14 19 00-0153 EA 3/4" Ball Corporation Valve (Mueller B-25000)	71.77	18.47
33 14 19 00-0154 EA 1" Ball Corporation Valve (Mueller B-25000)	90.20	22.87
33 14 19 00-0155 EA 1-1/2" Ball Corporation Valve (Mueller B-25000)	162.03	33.43
33 14 19 00-0156 EA 2" Ball Corporation Valve (Mueller B-25000)	244.75	39.58
33 14 19 00-0157 Gate Valve, AWWA C500 And C509 (33 14 19 00-0092)		
33 14 19 00-0158 Gate Valve, Flanged (33 14 19 00-0157) Note: Mueller A-2380-6.		
33 14 19 00-0159 EA 2" Gate Valve, Flanged.....	390.34	117.25
33 14 19 00-0160 EA 2-1/2" Gate Valve, Flanged.....	450.96	127.53
33 14 19 00-0161 EA 3" Gate Valve, Flanged.....	532.52	149.53
33 14 19 00-0162 EA 4" Gate Valve, Flanged.....	760.65	187.35
33 14 19 00-0163 EA 6" Gate Valve, Flanged.....	913.17	316.65
33 14 19 00-0164 EA 8" Gate Valve, Flanged.....	1,308.87	404.61
33 14 19 00-0165 EA 10" Gate Valve, Flanged.....	1,896.92	492.57
33 14 19 00-0166 EA 12" Gate Valve, Flanged.....	2,285.73	369.42
33 14 19 00-0167 EA 14" Gate Valve, Flanged.....	4,605.71	729.08
33 14 19 00-0168 EA 16" Gate Valve, Flanged.....	5,939.23	802.00
33 14 19 00-0169 EA 18" Gate Valve, Flanged.....	9,192.46	889.49
33 14 19 00-0170 EA 20" Gate Valve, Flanged.....	10,958.08	1,002.48
33 14 19 00-0171 Resilient Wedge Gate Valve, Flanged (33 14 19 00-0157) Note: Mueller A-2360-6.		
33 14 19 00-0172 EA 2" Resilient Wedge Gate Valve, Flanged.....	376.55	117.25
33 14 19 00-0173 EA 2-1/2" Resilient Wedge Gate Valve, Flanged.....	434.48	127.53
33 14 19 00-0174 EA 3" Resilient Wedge Gate Valve, Flanged.....	512.97	149.53
33 14 19 00-0175 EA 4" Resilient Wedge Gate Valve, Flanged.....	738.80	187.35
33 14 19 00-0176 EA 6" Resilient Wedge Gate Valve, Flanged.....	883.96	316.65
33 14 19 00-0177 EA 8" Resilient Wedge Gate Valve, Flanged.....	1,263.24	404.61
33 14 19 00-0178 EA 10" Resilient Wedge Gate Valve, Flanged.....	1,824.40	492.57
33 14 19 00-0179 EA 12" Resilient Wedge Gate Valve, Flanged.....	2,198.17	369.42
33 14 19 00-0180 Gate Valve, Mechanical Joint (33 14 19 00-0157) Note: Mueller A-2380-20.		
33 14 19 00-0181 EA 2" Gate Valve, Mechanical Joint	465.43	93.68
33 14 19 00-0182 EA 2-1/2" Gate Valve, Mechanical Joint	520.27	117.42
33 14 19 00-0183 EA 3" Gate Valve, Mechanical Joint	648.20	142.05
33 14 19 00-0184 EA 4" Gate Valve, Mechanical Joint	791.16	187.35
33 14 19 00-0185 EA 6" Gate Valve, Mechanical Joint	978.87	219.89
33 14 19 00-0186 EA 8" Gate Valve, Mechanical Joint	1,366.41	263.87
33 14 19 00-0187 EA 10" Gate Valve, Mechanical Joint	1,919.04	307.85
33 14 19 00-0188 EA 12" Gate Valve, Mechanical Joint	2,386.21	369.42
33 14 19 00-0189 EA 14" Gate Valve, Mechanical Joint	4,861.55	446.56
33 14 19 00-0190 EA 16" Gate Valve, Mechanical Joint	6,220.00	501.25
33 14 19 00-0191 EA 18" Gate Valve, Mechanical Joint	9,695.69	555.93
33 14 19 00-0192 EA 20" Gate Valve, Mechanical Joint	11,500.70	626.56
33 14 19 00-0193 Resilient Wedge Gate Valve, Mechanical Joint (33 14 19 00-0157) Note: Mueller A-2360-20.		
33 14 19 00-0194 EA 2" Resilient Wedge Gate Valve, Mechanical Joint	449.68	93.68
33 14 19 00-0195 EA 3" Resilient Wedge Gate Valve, Mechanical Joint	627.59	142.05
33 14 19 00-0196 EA 4" Resilient Wedge Gate Valve, Mechanical Joint	767.59	187.35
33 14 19 00-0197 EA 6" Resilient Wedge Gate Valve, Mechanical Joint	948.36	219.89
33 14 19 00-0198 EA 8" Resilient Wedge Gate Valve, Mechanical Joint	1,318.95	263.87
33 14 19 00-0199 EA 10" Resilient Wedge Gate Valve, Mechanical Joint	1,845.27	307.85
33 14 19 00-0200 EA 12" Resilient Wedge Gate Valve, Mechanical Joint	2,292.95	369.42
33 14 19 00-0201 Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint (33 14 19 00-0157) Note: Mueller A-2361.		
33 14 19 00-0202 EA 14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	4,751.64	729.08
33 14 19 00-0203 EA 16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	5,168.95	802.00
33 14 19 00-0204 EA 18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	7,930.51	889.49



		MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0205	EA	20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint		9,444.35	1,002.48
33 14 19 00-0206	EA	24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint		13,345.11	1,230.33
33 14 19 00-0207		Gate Valve, Threaded, WW-V-51 Class A, Type 1 <small>(33 14 19 00-0157)</small>			
		Note: NIBCO T-113.			
33 14 19 00-0208	EA	1/4" Gate Valve, Bronze, Threaded		51.23	15.39
33 14 19 00-0209	EA	3/8" Gate Valve, Bronze, Threaded		52.69	15.39
33 14 19 00-0210	EA	1/2" Gate Valve, Bronze, Threaded		52.02	15.39
33 14 19 00-0211	EA	3/4" Gate Valve, Bronze, Threaded		66.79	20.78
33 14 19 00-0212	EA	1" Gate Valve, Bronze, Threaded		82.45	25.13
33 14 19 00-0213	EA	1-1/4" Gate Valve, Bronze, Threaded		112.53	31.82
33 14 19 00-0214	EA	1-1/2" Gate Valve, Bronze, Threaded		130.61	36.79
33 14 19 00-0215	EA	2" Gate Valve, Bronze, Threaded		158.72	43.00
33 14 19 00-0216	EA	2-1/2" Gate Valve, Bronze, Threaded		310.72	58.67
33 14 19 00-0217	EA	3" Gate Valve, Bronze, Threaded		372.97	67.28
33 14 19 00-0218		Globe Valve, AWWA <small>(33 14 19 00-0092)</small>			
33 14 19 00-0219		Globe Valve, Threaded, WW-V-51 Class B, Type 1 <small>(33 14 19 00-0218)</small>			
		Note: NIBCO T-235.			
33 14 19 00-0220	EA	1/8" Globe Valve, Threaded		73.32	15.39
33 14 19 00-0221	EA	1/4" Globe Valve, Threaded		70.38	15.39
33 14 19 00-0222	EA	3/8" Globe Valve, Threaded		71.84	15.39
33 14 19 00-0223	EA	1/2" Globe Valve, Threaded		73.32	15.39
33 14 19 00-0224	EA	3/4" Globe Valve, Threaded		99.60	20.78
33 14 19 00-0225	EA	1" Globe Valve, Threaded		140.54	25.13
33 14 19 00-0226	EA	1-1/4" Globe Valve, Threaded		206.43	31.82
33 14 19 00-0227	EA	1-1/2" Globe Valve, Threaded		246.65	36.79
33 14 19 00-0228	EA	2" Globe Valve, Threaded		345.76	43.00
33 14 19 00-0229	EA	2-1/2" Globe Valve, Threaded		638.61	58.67
33 14 19 00-0230	EA	3" Globe Valve, Threaded		876.80	67.64
33 14 19 00-0231		Tapping Valve, AWWA C500 And C509 <small>(33 14 19 00-0092)</small>			
33 14 19 00-0232		Tapping Valve, AWWA C500 And C509 <small>(33 14 19 00-0231)</small>			
		Note: Flanged inlet X mechanical joint, Mueller H-667.			
33 14 19 00-0233	EA	2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint		521.74	117.25
33 14 19 00-0234	EA	3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint		671.37	149.53
33 14 19 00-0235	EA	4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint		894.78	187.35
33 14 19 00-0236	EA	6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint		1,118.13	316.65
33 14 19 00-0237	EA	8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint		1,571.72	404.61
33 14 19 00-0238	EA	10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint		2,216.35	492.57
33 14 19 00-0239	EA	12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint		3,185.19	369.42
33 14 19 00-0240	EA	14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint		5,530.90	729.08
33 14 19 00-0241	EA	16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint		6,918.93	802.00
33 14 19 00-0242	EA	18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint		10,929.63	889.49
33 14 19 00-0243		Fire Hydrants <small>(33 14 19)</small>			
		Note: Breakaway type.			
33 14 19 00-0244		Three Way, Standard (Traditional) Model Fire Hydrant <small>(33 14 19 00-0243)</small>			
		Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).			
33 14 19 00-0245	EA	1-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		3,454.00	232.31
33 14 19 00-0246	EA	2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		3,519.31	232.31
33 14 19 00-0247	EA	2-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		3,584.79	232.31
33 14 19 00-0248	EA	3" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		3,666.55	248.91
33 14 19 00-0249	EA	3-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		3,731.93	248.91
33 14 19 00-0250	EA	4" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		3,818.10	269.65
33 14 19 00-0251	EA	4-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		3,883.37	269.65
33 14 19 00-0252	EA	5" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		3,969.57	290.39
33 14 19 00-0253	EA	5-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		4,034.94	290.39
33 14 19 00-0254	EA	6" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		4,120.95	311.13
33 14 19 00-0255	EA	6-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		4,207.05	331.88
33 14 19 00-0256	EA	7" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		4,313.78	373.36
33 14 19 00-0257	EA	1-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		3,513.60	232.31
33 14 19 00-0258	EA	2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		3,598.36	232.31
33 14 19 00-0259	EA	2-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		3,682.90	232.31
33 14 19 00-0260	EA	3" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		3,784.05	248.91
33 14 19 00-0261	EA	3-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		3,868.60	248.91
33 14 19 00-0262	EA	4" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		3,974.20	269.65
33 14 19 00-0263	EA	4-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		4,058.64	269.65
33 14 19 00-0264	EA	5" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		4,164.01	290.39
33 14 19 00-0265	EA	5-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		4,248.53	290.39
33 14 19 00-0266	EA	6" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		4,353.67	311.13
33 14 19 00-0267	EA	6-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		4,459.18	331.88
33 14 19 00-0268	EA	7" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant		4,585.06	373.36



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0269			Two Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0243) Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0270	EA		1-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,095.51	232.31
33 14 19 00-0271	EA		2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,160.59	232.31
33 14 19 00-0272	EA		2-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,226.05	232.31
33 14 19 00-0273	EA		3" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,308.09	248.91
33 14 19 00-0274	EA		3-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,373.25	248.91
33 14 19 00-0275	EA		4" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,459.28	269.65
33 14 19 00-0276	EA		4-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,524.65	269.65
33 14 19 00-0277	EA		5" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,610.91	290.39
33 14 19 00-0278	EA		5-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,676.14	290.39
33 14 19 00-0279	EA		6" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,762.50	311.13
33 14 19 00-0280	EA		6-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,848.18	331.88
33 14 19 00-0281	EA		7" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,955.06	373.36
33 14 19 00-0282	EA		1-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,187.58	232.31
33 14 19 00-0283	EA		2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,272.14	232.31
33 14 19 00-0284	EA		2-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,356.59	232.31
33 14 19 00-0285	EA		3" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,457.94	248.91
33 14 19 00-0286	EA		3-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,542.28	248.91
33 14 19 00-0287	EA		4" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,647.73	269.65
33 14 19 00-0288	EA		4-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,732.11	269.65
33 14 19 00-0289	EA		5" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,837.75	290.39
33 14 19 00-0290	EA		5-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,922.09	290.39
33 14 19 00-0291	EA		6" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,027.52	311.13
33 14 19 00-0292	EA		6-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,132.61	331.88
33 14 19 00-0293	EA		7" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,258.95	373.36
33 14 19 00-0294			Three Way, Modern Model Fire Hydrant (33 14 19 00-0243) Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0295	EA		1-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	3,606.42	232.31
33 14 19 00-0296	EA		2" Burial Section, Three Way, Modern Type Fire Hydrant.....	3,690.86	232.31
33 14 19 00-0297	EA		2-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	3,775.56	232.31
33 14 19 00-0298	EA		3" Burial Section, Three Way, Modern Type Fire Hydrant.....	3,876.74	248.91
33 14 19 00-0299	EA		3-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	3,961.25	248.91
33 14 19 00-0300	EA		4" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,066.53	269.65
33 14 19 00-0301	EA		4-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,151.14	269.65
33 14 19 00-0302	EA		5" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,256.45	290.39
33 14 19 00-0303	EA		5-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,340.97	290.39
33 14 19 00-0304	EA		6" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,446.26	290.39
33 14 19 00-0305	EA		6-1/2" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,551.81	331.88
33 14 19 00-0306	EA		7" Burial Section, Three Way, Modern Type Fire Hydrant.....	4,676.81	331.88
33 14 19 00-0307			Two Way, Modern Model Fire Hydrant (33 14 19 00-0243) Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0308	EA		1-1/2" Burial Section, Two Way, Modern Type Fire Hydrant.....	2,547.62	232.31
33 14 19 00-0309	EA		2" Burial Section, Two Way, Modern Type Fire Hydrant.....	2,611.88	232.31
33 14 19 00-0310	EA		2-1/2" Burial Section, Two Way, Modern Type Fire Hydrant.....	2,676.86	232.31
33 14 19 00-0311	EA		3" Burial Section, Two Way, Modern Type Fire Hydrant.....	2,756.96	248.91
33 14 19 00-0312	EA		3-1/2" Burial Section, Two Way, Modern Type Fire Hydrant.....	2,821.20	248.91
33 14 19 00-0313	EA		4" Burial Section, Two Way, Modern Type Fire Hydrant.....	2,906.18	269.65
33 14 19 00-0314	EA		4-1/2" Burial Section, Two Way, Modern Type Fire Hydrant.....	2,970.40	269.65
33 14 19 00-0315	EA		5" Burial Section, Two Way, Modern Type Fire Hydrant.....	3,055.46	290.39
33 14 19 00-0316	EA		5-1/2" Burial Section, Two Way, Modern Type Fire Hydrant.....	3,119.51	290.39
33 14 19 00-0317	EA		6" Burial Section, Two Way, Modern Type Fire Hydrant.....	3,204.51	311.13
33 14 19 00-0318	EA		6-1/2" Burial Section, Two Way, Modern Type Fire Hydrant.....	3,289.58	331.88
33 14 19 00-0319	EA		7" Burial Section, Two Way, Modern Type Fire Hydrant.....	3,394.50	373.36
33 14 19 00-0320			Safetop Model With Breakable Section (33 14 19 00-0243) Note: Prices listed are for mechanical joint. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0321	EA		4" Safetop Model Fire Hydrant Breakable With 5" Burial Section.....	2,112.95	331.88
33 14 19 00-0322	EA		6" Safetop Model Fire Hydrant Breakable With 5" Burial Section.....	2,198.80	331.88
33 14 19 00-0323	EA		8" Safetop Model Fire Hydrant Breakable With 5" Burial Section.....	2,331.18	331.88
33 14 19 00-0324			Fire Hydrant Extension Kits (33 14 19 00-0243)		
33 14 19 00-0325	EA		6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	522.10	20.75
33 14 19 00-0326	EA		12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	618.99	25.93
33 14 19 00-0327	EA		18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	672.15	31.12
33 14 19 00-0328	EA		24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	760.84	38.37
33 14 19 00-0329	EA		30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,167.90	39.93
33 14 19 00-0330	EA		36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,248.61	41.48
33 14 19 00-0331	EA		42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,266.08	43.56
33 14 19 00-0332	EA		48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,336.56	46.67
33 14 19 00-0333	EA		54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,468.70	56.00
33 14 19 00-0334	EA		60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,541.14	67.41
33 14 19 00-0335	EA		6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	581.07	23.23
33 14 19 00-0336	EA		12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	686.38	28.21
33 14 19 00-0337	EA		18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	786.18	34.02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0338 EA 24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	874.61	42.32
33 14 19 00-0339 EA 30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,212.28	43.97
33 14 19 00-0340 EA 36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,293.93	45.63
33 14 19 00-0341 EA 42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,348.94	48.12
33 14 19 00-0342 EA 48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,582.67	51.44
33 14 19 00-0343 EA 54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,729.00	61.40
33 14 19 00-0344 EA 60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,806.69	73.84
33 14 19 00-0345 Remove And Reinstall Standard Fire Hydrant (33 14 19 00-0243)		
Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.		
33 14 19 00-0346 EA Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	663.74	
33 14 19 00-0347 EA >5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	967.97	
33 14 19 00-0348 EA Reset Fire Hydrant Upper Barrel.....	806.96	
Note: Includes Safety Repair Kit		
33 14 23 Enclosures for Water Utility Piping and Valves (33 14)		
See CSI section 22 11 19 00-0446 for Enclosures.		
33 19 Water Utility Metering Equipment (33 19)		
33 19 11 Water Utility Metering (33 19)		
33 19 11 00-0001 Bronze Disk Type Water Service Meters (33 19 11)		
33 19 11 00-0002 EA 5/8" Diameter, 0 - 20 GPM, Screwed, Water Supply Meter, Disk Type, Bronze.....	283.46	49.70
33 19 11 00-0003 EA 3/4" Diameter, 0 - 30 GPM, Screwed, Water Supply Meter, Disk Type, Bronze.....	356.85	59.25
33 19 11 00-0004 EA 1" Diameter, 0 - 50 GPM, Screwed, Water Supply Meter, Disk Type, Bronze.....	481.16	67.85
33 19 11 00-0005 EA 1-1/2" Diameter, 0 - 100 GPM, Screwed, Water Supply Meter, Disk Type, Bronze.....	941.23	101.29
33 19 11 00-0006 EA 2" Diameter, 0 - 160 GPM, Screwed, Water Supply Meter, Disk Type, Bronze.....	1,276.15	131.87
33 19 11 00-0007 Magnetic Driven, Positive Displacement Type Water Service Meters (33 19 11)		
33 19 11 00-0008 EA 5/8" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i).....	336.06	49.70
<i>For Owner Furnished Material, Deduct</i>		
	-285.76	
33 19 11 00-0009 EA 3/4" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i).....	383.88	59.25
<i>For Owner Furnished Material, Deduct</i>		
	-324.16	
33 19 11 00-0010 EA 1" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i).....	565.64	67.85
<i>For Owner Furnished Material, Deduct</i>		
	-497.39	
33 19 11 00-0011 EA 1-1/2" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i).....	953.28	101.29
<i>For Owner Furnished Material, Deduct</i>		
	-851.63	
33 19 11 00-0012 EA 2" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i).....	1,182.17	131.87
<i>For Owner Furnished Material, Deduct</i>		
	-1,049.45	
33 19 11 00-0013 EA Electronic Transmitter.....	267.41	23.89
Note: For use with transmitting meter valve.		
<i>For Owner Furnished Material, Deduct</i>		
	-243.52	
33 19 11 00-0014 Flanged Compound Type Water Service Meter (33 19 11)		
33 19 11 00-0015 EA 2" Diameter, 0 - 160 GPM Water Service Meter Compound Type, Flanged And Bronze.....	1,612.05	117.25
33 19 11 00-0016 EA 3" Diameter, 0 - 320 GPM Water Service Meter Compound Type, Flanged And Bronze.....	1,886.95	149.53
33 19 11 00-0017 EA 4" Diameter, 0 - 500 GPM Water Service Meter Compound Type, Flanged And Bronze.....	3,179.22	283.22
33 19 11 00-0018 EA 6" Diameter, 0 - 1,000 GPM Water Service Meter Compound Type, Flanged And Bronze.....	4,357.95	316.65
33 19 11 00-0019 EA 8" Diameter, 0 - 1,600 GPM Water Service Meter Compound Type, Flanged And Bronze.....	8,912.08	404.61
33 19 11 00-0020 EA 10" Diameter, 0 - 2,500 GPM Water Service Meter Compound Type, Flanged And Bronze.....	15,228.86	492.57
33 19 11 00-0021 Flanged Electromagnetic Flow (EMF) Water Meter (33 19 11)		
33 19 11 00-0022 EA 2" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG).....	4,868.04	117.25
33 19 11 00-0023 EA 3" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG).....	6,726.67	149.53
33 19 11 00-0024 EA 4" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG).....	7,753.72	283.22
33 19 11 00-0025 Flanged Turbine Water Service Meter (33 19 11)		
33 19 11 00-0026 Vertical Turbine Meters (33 19 11 00-0025)		
33 19 11 00-0027 EA 1-1/2" Diameter, 0 - 100 GPM Vertical Turbine Meter, Flanged.....	430.05	92.36
33 19 11 00-0028 EA 2" Diameter, 0 - 160 GPM Vertical Turbine Meter, Flanged.....	594.64	117.25
33 19 11 00-0029 EA 3" Diameter, 0 - 350 GPM Vertical Turbine Meter, Flanged.....	979.84	149.53
33 19 11 00-0030 EA 4" Diameter, 0 - 650 GPM Vertical Turbine Meter, Flanged.....	1,526.28	283.22
33 19 11 00-0031 EA 6" Diameter, 0 - 1,300 GPM Vertical Turbine Meter, Flanged.....	2,740.85	316.65
33 19 11 00-0032 Horizontal Turbine Meters (33 19 11 00-0025)		
33 19 11 00-0033 EA 1-1/2" Diameter, 0 - 120 GPM Horizontal Turbine Meter, Flanged.....	639.60	92.36
33 19 11 00-0034 EA 2" Diameter, 0 - 160 GPM Horizontal Turbine Meter, Flanged.....	893.80	117.25
33 19 11 00-0035 EA 3" Diameter, 0 - 600 GPM Horizontal Turbine Meter, Flanged.....	1,099.77	149.53
33 19 11 00-0036 EA 4" Diameter, 0 - 1,000 GPM Horizontal Turbine Meter, Flanged.....	1,684.82	283.22
33 19 11 00-0037 EA 6" Diameter, 0 - 2,000 GPM Horizontal Turbine Meter, Flanged.....	3,318.48	316.65
33 19 11 00-0038 EA 8" Diameter, 0 - 3,500 GPM Horizontal Turbine Meter, Flanged.....	4,433.01	404.61
33 19 11 00-0039 EA 10" Diameter, 0 - 5,500 GPM Horizontal Turbine Meter, Flanged.....	6,176.97	492.57

33 Utilities**33 10 Water Utilities****33 19 Water Utility Metering Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 19 11 00-0040	EA		12" Diameter, 0 - 6,600 GPM Horizontal Turbine Meter, Flanged.....	8,135.05	993.92
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33 30 Sanitary Sewerage Utilities ⁽³³⁾**33 31 Sanitary Sewerage Piping** ^(33 30)**33 31 11 Public Sanitary Sewerage Gravity Piping** ^(33 31)

Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 31 11 00-0001			Cast Iron Service Saddles With U Bolt ^(33 31 11)		
33 31 11 00-0002	EA		2" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	94.38	
33 31 11 00-0003	EA		3" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	94.85	
33 31 11 00-0004	EA		3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	104.46	
33 31 11 00-0005	EA		4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	100.98	
33 31 11 00-0006	EA		4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt.....	113.83	
33 31 11 00-0007	EA		4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt.....	127.87	
33 31 11 00-0008	EA		4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt.....	151.40	
33 31 11 00-0009	EA		6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt.....	127.88	
33 31 11 00-0010	EA		6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt.....	139.78	
33 31 11 00-0011	EA		6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt.....	161.33	
33 31 11 00-0012	EA		2" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt.....	133.54	
33 31 11 00-0013	EA		4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt.....	103.66	
33 31 11 00-0014	EA		4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt.....	113.26	
33 31 11 00-0015	EA		4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt.....	134.12	
33 31 11 00-0016	EA		4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt.....	159.08	
33 31 11 00-0017	EA		6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt.....	170.90	
33 31 11 00-0018			Plastic Sewer And Drain Piping ^(33 31 11)		
33 31 11 00-0019			Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe ^(33 31 11 00-0018)		
33 31 11 00-0020	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	7.02	3.21
33 31 11 00-0021	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	8.39	3.79
33 31 11 00-0022	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	10.86	4.59
33 31 11 00-0023	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	13.13	5.35
33 31 11 00-0024	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	16.67	6.23
33 31 11 00-0025	LF		8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	21.04	7.25
33 31 11 00-0026	LF		10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	25.95	7.50
33 31 11 00-0027	LF		12" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	31.62	7.76
33 31 11 00-0028			Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe ^(33 31 11 00-0018)		
Note: D-2729 PVC pipe.					
33 31 11 00-0029	LF		3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	10.20	4.59
33 31 11 00-0030	LF		4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	11.98	5.35
33 31 11 00-0031	LF		6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	14.94	6.23
33 31 11 00-0032			Polyvinyl Chloride (PVC) Sewer And Drain Fittings ^(33 31 11 00-0018)		
33 31 11 00-0033			1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain ^(33 31 11 00-0032)		
33 31 11 00-0034	EA		1-1/2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	18.11	11.21
33 31 11 00-0035	EA		2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	23.34	14.50
33 31 11 00-0036	EA		3" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	34.32	19.47
33 31 11 00-0037	EA		4" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	44.45	22.51
33 31 11 00-0038	EA		6" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	109.21	29.25
33 31 11 00-0039	EA		8" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	170.86	39.37
33 31 11 00-0040	EA		10" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	226.14	52.44
33 31 11 00-0041			1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain ^(33 31 11 00-0032)		
33 31 11 00-0042	EA		1-1/2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	18.41	11.21
33 31 11 00-0043	EA		2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	23.31	14.50
33 31 11 00-0044	EA		3" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	33.87	19.47
33 31 11 00-0045	EA		4" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	42.28	22.51
33 31 11 00-0046	EA		6" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	103.69	29.25
33 31 11 00-0047	EA		8" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	158.02	39.37
33 31 11 00-0048	EA		10" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	188.36	52.44
33 31 11 00-0049	EA		12" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	270.93	69.84
33 31 11 00-0050			Long Sweep 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain ^(33 31 11 00-0032)		
33 31 11 00-0051	EA		1-1/2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	21.49	11.04
33 31 11 00-0052	EA		2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	25.41	14.50
33 31 11 00-0053	EA		3" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	40.29	19.90
33 31 11 00-0054	EA		4" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	56.87	24.28
33 31 11 00-0055	EA		6" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	88.48	28.08
33 31 11 00-0056	EA		8" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	135.11	32.04
33 31 11 00-0057	EA		10" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	203.08	37.35



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0058 EA 12" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	291.85	43.54
33 31 11 00-0059 1/16 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0060 EA 1-1/2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	19.03	11.21
33 31 11 00-0061 EA 2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	23.95	14.50
33 31 11 00-0062 EA 3" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	35.71	19.47
33 31 11 00-0063 EA 4" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	45.70	22.51
33 31 11 00-0064 EA 6" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	127.58	29.25
33 31 11 00-0065 EA 8" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	197.61	39.37
33 31 11 00-0066 EA 10" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	232.23	52.44
33 31 11 00-0067 EA 12" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	256.31	69.84
33 31 11 00-0068 Reducers, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0069 EA 2" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	21.79	12.80
33 31 11 00-0070 EA 3" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	31.12	15.28
33 31 11 00-0071 EA 3" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	32.15	16.85
33 31 11 00-0072 EA 4" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	41.22	18.41
33 31 11 00-0073 EA 4" x 3" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	45.55	20.89
33 31 11 00-0074 EA 6" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	96.37	25.85
33 31 11 00-0075 EA 8" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	181.40	34.28
33 31 11 00-0076 EA 10" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	92.47	37.43
33 31 11 00-0077 EA 10" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	117.88	40.83
33 31 11 00-0078 EA 10" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	117.39	45.86
33 31 11 00-0079 EA 12" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	204.36	49.57
33 31 11 00-0080 EA 12" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	218.39	54.59
33 31 11 00-0081 EA 12" x 10" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	235.06	61.14
33 31 11 00-0082 Sanitary Tees, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0083 EA 1-1/2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	27.68	16.95
33 31 11 00-0084 EA 2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	36.10	21.92
33 31 11 00-0085 EA 3" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	52.14	28.92
33 31 11 00-0086 EA 4" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	70.48	35.92
33 31 11 00-0087 EA 6" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	155.86	39.37
33 31 11 00-0088 EA 8" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	203.88	52.44
33 31 11 00-0089 Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0090 EA 1-1/2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	29.98	16.95
33 31 11 00-0091 EA 2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	37.43	21.92
33 31 11 00-0092 EA 3" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	53.85	28.92
33 31 11 00-0093 EA 4" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	73.27	35.92
33 31 11 00-0094 EA 6" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	145.40	39.37
33 31 11 00-0095 EA 8" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	184.02	52.44
33 31 11 00-0096 EA 10" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	243.13	69.98
33 31 11 00-0097 EA 12" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	364.41	93.38
33 31 11 00-0098 Reducing Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0099 EA 2" x 1-1/2" x 1-1/2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	33.58	16.95
33 31 11 00-0100 EA 2" x 2" x 1" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	40.94	21.92
33 31 11 00-0101 EA 3" x 3" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	51.49	28.92
33 31 11 00-0102 EA 4" x 4" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	69.44	35.92
33 31 11 00-0103 EA 4" x 4" x 3" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	72.06	35.92
33 31 11 00-0104 Double Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0105 EA 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	42.59	21.92
33 31 11 00-0106 EA 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	55.97	28.92
33 31 11 00-0107 EA 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	90.95	39.04
33 31 11 00-0108 EA 4" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	136.59	47.21
33 31 11 00-0109 EA 2" x 2" x 1-1/2" x 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	54.89	28.92
33 31 11 00-0110 EA 3" x 3" x 2" x 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	82.66	39.04
33 31 11 00-0111 EA 4" x 4" x 3" x 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	122.90	47.21
33 31 11 00-0112 Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0113 EA 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	32.84	16.95
33 31 11 00-0114 EA 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	41.90	21.92
33 31 11 00-0115 EA 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	67.27	28.92
33 31 11 00-0116 EA 4" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	103.36	35.92
33 31 11 00-0117 EA 2" x 2" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	51.62	21.92
33 31 11 00-0118 EA 3" x 3" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	76.07	28.92
33 31 11 00-0119 EA 3" x 3" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	63.83	28.92
33 31 11 00-0120 EA 4" x 4" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	99.23	35.92
33 31 11 00-0121 EA 4" x 4" x 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	103.01	35.92

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0122 Double Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0123 EA 1-1/2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	44.81	21.92
33 31 11 00-0124 EA 2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	56.22	28.92
33 31 11 00-0125 EA 3" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	80.76	39.04
33 31 11 00-0126 EA 4" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	188.04	47.21
33 31 11 00-0127 EA 6" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	503.95	52.28
33 31 11 00-0128 Cleanout Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0129 EA 4" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	207.36	89.87
33 31 11 00-0130 EA 6" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	384.69	115.93
33 31 11 00-0131 EA 8" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	507.59	163.38
33 31 11 00-0132 EA 10" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	742.32	262.82
33 31 11 00-0133 Couplings, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0134 EA 1-1/2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	17.99	11.21
33 31 11 00-0135 EA 2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	22.85	14.42
33 31 11 00-0136 EA 3" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	32.22	19.30
33 31 11 00-0137 EA 4" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	39.00	22.51
33 31 11 00-0138 EA 6" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	73.08	29.25
33 31 11 00-0139 EA 8" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	143.25	39.37
33 31 11 00-0140 EA 10" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	209.22	52.44
33 31 11 00-0141 EA 12" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	327.26	69.84
33 31 11 00-0142 Adapters, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0143 EA 4" Male, Plastic Pipe x Malleable Iron Pipe Adapter, Drain And Sewer Fitting	98.72	61.75
33 31 11 00-0144 EA 2" x 3" x 3" Downspout Adapter, Drain And Sewer Fitting	72.45	46.97
33 31 11 00-0145 EA 2" x 3" x 4" Downspout Adapter, Drain And Sewer Fitting	73.34	46.97
33 31 11 00-0146 EA 3" x 4" x 4" Downspout Adapter, Drain And Sewer Fitting	75.71	46.97
33 31 11 00-0147 EA 4" Hub, Cast Iron Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	99.37	61.75
33 31 11 00-0148 EA 4" Spigot, Clay Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	97.47	61.75
33 31 11 00-0149 EA 4" Spigot, Fiberglass Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	94.35	61.75
33 31 11 00-0150 EA 4" Drain Grate, Drain And Sewer Fitting	49.88	31.76
33 31 11 00-0151 Caps, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0152 EA 3" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	23.56	12.05
33 31 11 00-0153 EA 4" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	34.83	15.01
33 31 11 00-0154 EA 6" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	58.57	19.39
33 31 11 00-0155 Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0156 EA 1-1/2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	17.90	11.21
33 31 11 00-0157 EA 2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	23.20	14.50
33 31 11 00-0158 EA 3" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	32.77	19.47
33 31 11 00-0159 EA 4" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	40.50	22.51
33 31 11 00-0160 EA 6" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	61.80	29.25
33 31 11 00-0161 EA 8" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	174.24	39.37
33 31 11 00-0162 Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe <small>(33 31 11 00-0018)</small>		
Note: ASTM 3034.		
33 31 11 00-0163 LF 4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	13.86	5.35
33 31 11 00-0164 LF 6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	18.45	6.23
33 31 11 00-0165 LF 8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	24.66	7.25
33 31 11 00-0166 LF 10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	30.26	7.50
33 31 11 00-0167 LF 12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	37.01	7.76
33 31 11 00-0168 LF 15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	48.31	8.04
33 31 11 00-0169 LF 18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	61.24	8.34
33 31 11 00-0170 LF 21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	79.56	9.04
33 31 11 00-0171 LF 24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	96.50	9.76
33 31 11 00-0172 LF 27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	120.01	11.45
33 31 11 00-0173 Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe <small>(33 31 11 00-0018)</small>		
Note: ASTM 3034.		
33 31 11 00-0174 LF 4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	12.53	5.35
33 31 11 00-0175 LF 6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	16.09	6.23
33 31 11 00-0176 LF 8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	20.82	7.25
33 31 11 00-0177 Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings <small>(33 31 11 00-0018)</small>		
Note: ASTM 3034.		
33 31 11 00-0178 1/4 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0177)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0179 EA 4" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	57.41	20.57
33 31 11 00-0180 EA 6" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	82.41	23.92
33 31 11 00-0181 EA 8" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	163.11	27.11
33 31 11 00-0182 EA 10" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	448.91	31.89
33 31 11 00-0183 EA 12" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	579.86	40.66
33 31 11 00-0184 1/8 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0185 EA 4" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	52.66	20.57
33 31 11 00-0186 EA 6" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	77.17	23.92
33 31 11 00-0187 EA 8" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	149.86	27.11
33 31 11 00-0188 EA 10" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	324.12	31.89
33 31 11 00-0189 EA 12" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	461.21	40.66
33 31 11 00-0190 EA 15" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	976.66	57.41
33 31 11 00-0191 EA 18" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,545.61	81.33
33 31 11 00-0192 EA 21" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,567.48	107.65
33 31 11 00-0193 EA 24" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	3,499.47	143.52
33 31 11 00-0194 Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0195 EA 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	86.80	30.86
33 31 11 00-0196 EA 6" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	133.56	34.20
33 31 11 00-0197 EA 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	149.08	35.89
33 31 11 00-0198 EA 8" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	163.74	37.56
33 31 11 00-0199 EA 8" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	186.00	39.23
33 31 11 00-0200 EA 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	342.63	40.91
33 31 11 00-0201 EA 10" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	434.66	41.86
33 31 11 00-0202 EA 10" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	491.20	43.86
33 31 11 00-0203 EA 10" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	717.67	45.53
33 31 11 00-0204 EA 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	930.84	47.84
33 31 11 00-0205 EA 12" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	534.60	50.96
33 31 11 00-0206 EA 12" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	566.95	52.63
33 31 11 00-0207 EA 12" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	800.72	54.30
33 31 11 00-0208 EA 12" x 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,146.33	56.61
33 31 11 00-0209 EA 12" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,290.73	61.00
33 31 11 00-0210 Wyes, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0211 EA 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	83.11	30.86
33 31 11 00-0212 EA 6" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	121.27	34.20
33 31 11 00-0213 EA 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	132.57	35.89
33 31 11 00-0214 EA 8" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	158.47	37.56
33 31 11 00-0215 EA 8" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	179.72	39.23
33 31 11 00-0216 EA 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	267.51	40.91
33 31 11 00-0217 EA 10" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	399.11	42.18
33 31 11 00-0218 EA 10" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	407.46	43.86
33 31 11 00-0219 EA 10" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	604.92	45.53
33 31 11 00-0220 EA 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	668.38	47.84
33 31 11 00-0221 EA 12" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	504.84	50.96
33 31 11 00-0222 EA 12" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	520.72	52.63
33 31 11 00-0223 EA 12" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	737.35	54.30
33 31 11 00-0224 EA 12" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	884.98	56.61
33 31 11 00-0225 EA 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	924.78	61.00
33 31 11 00-0226 EA 15" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,138.98	73.36
33 31 11 00-0227 EA 15" x 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,262.19	77.74
33 31 11 00-0228 EA 15" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,573.66	86.12
33 31 11 00-0229 Couplings, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0230 EA 4" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	56.99	20.57
33 31 11 00-0231 EA 6" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	85.21	23.92
33 31 11 00-0232 EA 8" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	122.47	27.27
33 31 11 00-0233 EA 10" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	224.10	31.89
33 31 11 00-0234 EA 12" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	316.13	40.66
33 31 11 00-0235 EA 15" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	609.51	57.41
33 31 11 00-0236 EA 18" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,135.79	81.33
33 31 11 00-0237 EA 21" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,884.05	107.65
33 31 11 00-0238 EA 24" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,722.50	143.52
33 31 11 00-0239 Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0240 EA 6" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	102.26	22.25
33 31 11 00-0241 EA 8" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	143.35	23.92
33 31 11 00-0242 EA 8" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	151.31	25.59
33 31 11 00-0243 EA 10" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	328.98	27.91
33 31 11 00-0244 EA 10" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	377.10	29.59
33 31 11 00-0245 EA 12" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	421.06	32.30
33 31 11 00-0246 EA 12" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	482.03	33.97
33 31 11 00-0247 EA 12" x 10" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	551.63	36.28
33 31 11 00-0248 EA 15" x 12" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	828.30	49.04

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**33 31 11 00-0249 Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride****(PVC)** (33 31 11 00-0177)

33 31 11 00-0250	EA	6" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	86.81	
33 31 11 00-0251	EA	8" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	113.51	
33 31 11 00-0252	EA	8" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	115.79	
33 31 11 00-0253	EA	10" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	186.05	
33 31 11 00-0254	EA	10" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	195.58	
33 31 11 00-0255	EA	10" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	359.56	
33 31 11 00-0256	EA	12" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	212.92	
33 31 11 00-0257	EA	12" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	230.79	
33 31 11 00-0258	EA	12" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	495.53	
33 31 11 00-0259	EA	12" x 10" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	581.56	
33 31 11 00-0260	EA	15" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	248.63	
33 31 11 00-0261	EA	15" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	264.22	

33 31 11 00-0262 Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)(33 31 11 00-0177)

33 31 11 00-0263	EA	6" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	92.15	
33 31 11 00-0264	EA	8" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	113.51	
33 31 11 00-0265	EA	8" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	123.05	
33 31 11 00-0266	EA	10" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	171.91	
33 31 11 00-0267	EA	10" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	194.44	
33 31 11 00-0268	EA	10" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	288.39	
33 31 11 00-0269	EA	12" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	211.79	
33 31 11 00-0270	EA	12" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	229.71	
33 31 11 00-0271	EA	12" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	336.17	
33 31 11 00-0272	EA	12" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	405.65	
33 31 11 00-0273	EA	15" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	247.93	
33 31 11 00-0274	EA	15" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	258.94	
33 31 11 00-0275	EA	15" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	416.35	
33 31 11 00-0276	EA	15" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	458.27	
33 31 11 00-0277	EA	15" x 12" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	638.47	

33 31 11 00-0278 Couplings And Plug Fittings (33 31 11)**33 31 11 00-0279 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC)****Flexible Pipe Couplings** (33 31 11 00-0278)

Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps.

33 31 11 00-0280	EA	1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150).....	17.78	5.81
33 31 11 00-0281	EA	2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22).....	19.37	6.78
33 31 11 00-0282	EA	3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33).....	22.69	7.75
33 31 11 00-0283	EA	4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44).....	25.96	8.24
33 31 11 00-0284	EA	5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55).....	32.63	8.72
33 31 11 00-0285	EA	6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66).....	39.35	9.69
33 31 11 00-0286	EA	8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88).....	51.49	10.66
33 31 11 00-0287	EA	10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010).....	64.86	11.14
33 31 11 00-0288	EA	12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1212).....	111.97	11.63
33 31 11 00-0289	EA	15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1515).....	155.10	12.60
33 31 11 00-0290	EA	18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1818).....	307.22	13.08
33 31 11 00-0291	EA	21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2121).....	358.02	13.81
33 31 11 00-0292	EA	24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2424).....	397.23	14.54
33 31 11 00-0293	EA	27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2727).....	476.94	15.51

33 32 Sanitary Sewerage Equipment (33 30)**33 32 16 Packaged Wastewater Grinder Pump Assemblies** (33 32)**33 32 16 00-0001 Submersible Grinder Pumps, Cast Iron With Bronze Impeller** (33 32 16)

33 32 16 00-0002	EA	2 HP Submersible Grinder Pump, 200/208, 230 Volt, 1 Phase, 3450 RPM, 1-1/2" Threaded Discharge.....	2,040.88	277.91
		Note: Zoeller 840 series.		
33 32 16 00-0003	EA	2 HP Submersible Grinder Pump, 200/208, 230, 460 Volt, 3 Phase, 3450 RPM, 1-1/2" Threaded Discharge.....	2,010.18	277.91
		Note: Zoeller 840 series.		
33 32 16 00-0004	EA	Simplex Control Panel With Auto Reversing Switch.....	982.33	92.61
		Note: For Zoeller 840 series grinder pump.		
33 32 16 00-0005	EA	Duplex Control Panel With Auto Reversing Switch.....	1,552.82	92.61
		Note: For Zoeller 840 series grinder pump.		
33 32 16 00-0006	EA	Grinder Pump, 120 Gallon Sewage Basin, 1 HP, 120 V (Environment One 2012-74).....	7,941.55	

33 32 16 00-0007 Submersible Grinder Pumps (33 32 16)

Note: Includes 50' of cord with pumps unless otherwise noted.

33 32 16 00-0008	EA	2 HP Submersible Grinder Pump @ 3450RPM, Explosion Proof.....	3,553.32	571.51
33 32 16 00-0009	EA	3 HP Submersible Grinder Pump @ 3450RPM, Explosion Proof.....	5,395.63	666.75
33 32 16 00-0010	EA	5 HP Submersible Grinder Pump @ 3450RPM, Explosion Proof.....	6,588.97	857.26



Utilities	33	CS
Sanitary Sewerage Utilities	33 30	
Onsite Wastewater Disposal	33 34	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 34 Onsite Wastewater Disposal (33 30)
 Note: Excludes distribution field piping, trenching or excavation.

33 34 13 Septic Tanks (33 34)

33 34 13 13 Concrete Septic Tanks (33 34 13)

33 34 13 13-001 Precast Concrete Septic Tank (33 34 13 13)

Note: Includes external coating.

33 34 13 13-0002	EA	1,000 Gallon Precast Septic Tank	2,513.53	571.51
		<i>For Non-Traffic Rated, Deduct</i>	-452.92	
33 34 13 13-0003	EA	1,250 Gallon Precast Septic Tank	3,002.86	630.85
		<i>For Non-Traffic Rated, Deduct</i>	-657.09	
33 34 13 13-0004	EA	1,500 Gallon Precast Septic Tank	3,474.08	690.09
		<i>For Non-Traffic Rated, Deduct</i>	-656.71	
33 34 13 13-0005	EA	2,000 Gallon Precast Septic Tank	4,415.41	750.10
		<i>For Non-Traffic Rated, Deduct</i>	-874.28	
33 34 13 13-0006	EA	2,500 Gallon Precast Septic Tank	5,306.06	1,035.86
		<i>For Non-Traffic Rated, Deduct</i>	-1,009.67	
33 34 13 13-0007	EA	4,000 Gallon Precast Septic Tank	13,690.40	1,428.76
		<i>For Non-Traffic Rated, Deduct</i>	-2,984.45	
33 34 13 13-0008	EA	5,000 Gallon Precast Septic Tank	24,747.91	2,143.14
		<i>For Non-Traffic Rated, Deduct</i>	-5,531.62	
33 34 13 13-0009	EA	7,500 Gallon Precast Septic Tank	27,933.08	3,000.40
		<i>For Non-Traffic Rated, Deduct</i>	-6,070.45	
33 34 13 13-0010	EA	10,000 Gallon Precast Septic Tank	34,226.69	3,589.81
		<i>For Non-Traffic Rated, Deduct</i>	-7,461.29	
33 34 13 13-0011	EA	12,500 Gallon Precast Septic Tank	40,523.62	4,447.07
		<i>For Non-Traffic Rated, Deduct</i>	-8,761.67	

33 34 13 23 Fiberglass Septic Tank (33 34 13)

33 34 13 23-001 Fiberglass Septic Tank (33 34 13 23)

33 34 13 23-0002	EA	1,000 Gallon Fiberglass Septic Tank	1,571.73	428.62
33 34 13 23-0003	EA	1,250 Gallon Fiberglass Septic Tank	1,908.04	571.51
33 34 13 23-0004	EA	1,500 Gallon Fiberglass Septic Tank	2,075.13	517.97
33 34 13 23-0005	EA	2,000 Gallon Fiberglass Septic Tank	3,204.46	560.74
33 34 13 23-0006	EA	2,500 Gallon Fiberglass Septic Tank	4,086.31	777.25
33 34 13 23-0007	EA	4,000 Gallon Fiberglass Septic Tank	6,342.20	1,071.57
33 34 13 23-0008	EA	5,000 Gallon Fiberglass Septic Tank	9,430.83	1,607.36
33 34 13 23-0009	EA	7,500 Gallon Fiberglass Septic Tank	12,963.06	2,250.30
33 34 13 23-0010	EA	10,000 Gallon Fiberglass Septic Tank	15,863.17	2,689.60

33 34 13 33 Polyethylene Septic Tank (33 34 13)

33 34 13 33-001 High Density Polyethylene (HDPE) Septic Tank (33 34 13 33)

33 34 13 33-0002	EA	300 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank	826.61	175.91
33 34 13 33-0003	EA	500 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank	1,234.72	197.91
33 34 13 33-0004	EA	900 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	1,699.41	241.89
33 34 13 33-0005	EA	1,000 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	1,753.20	263.87
33 34 13 33-0006	EA	1,250 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	2,021.26	285.87
33 34 13 33-0007	EA	1,500 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	2,406.97	307.85
33 34 13 33-0008	EA	750 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	1,698.85	219.89
33 34 13 33-0009	EA	1,000 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	1,865.24	263.87
33 34 13 33-0010	EA	1,250 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	2,180.92	285.87
33 34 13 33-0011	EA	1,500 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	2,547.02	307.85

33 34 51 Drainage Field System (33 34)

33 34 51 00-001 Leaching Pit - Precast Concrete (33 34 51)

Note: Includes external coating.

33 34 51 00-0002	EA	3' Diameter, 3' High, Precast Concrete Leaching Pit	805.56	83.82
33 34 51 00-0003	EA	4' Diameter, 3' High, Precast Concrete Leaching Pit	1,139.91	119.06
33 34 51 00-0004	EA	6' Diameter, 3' High, Precast Concrete Leaching Pit	1,518.33	142.87
33 34 51 00-0005	EA	8' Diameter, 4' High, Precast Concrete Leaching Pit	2,467.86	238.13
33 34 51 00-0006	EA	10' Diameter, 4' High, Precast Concrete Leaching Pit	3,611.70	333.38

33 34 53 Distribution Chambers (33 34)

33 34 53 13 Drainage Field Concrete Distribution Chambers (33 34 53)

33 34 53 13-001 Concrete Distribution Boxes (33 34 53 13)

Note: Includes internal and external coating.

33 34 53 13-0002	EA	3 Outlet Concrete Distribution Box	228.13	57.34
33 34 53 13-0003	EA	5 Outlet Concrete Distribution Box	266.47	68.82
33 34 53 13-0004	EA	8 Outlet Concrete Distribution Box	447.67	80.28
33 34 53 13-0005	EA	12 Outlet Concrete Distribution Box	874.67	137.62

33	Utilities
33 30	Sanitary Sewerage Utilities
33 34	Onsite Wastewater Disposal



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 34 53 13-0006 Leaching Field Chambers - Precast Concrete (33 34 53 13)		
33 34 53 13-0007 EA Standard Leaching Field Chamber 13' x 3'-7" x 1'-4"	957.73	72.76
33 34 53 13-0008 EA Heavy Duty Leaching Field Chamber 13' x 3'-9" x 1'-6"	1,165.57	99.22
33 34 56 Drainage Field Dosing Chambers (33 34)		
33 34 56 00-0001 Dosing Siphon (33 34 56)		
33 34 56 00-0002 EA Dosing Siphon With Electrical Connection And Solenoid Valve	3,339.18	
33 34 56 00-0003 EA Solar Power Control For Dosing Siphon	2,284.46	
33 34 56 00-0004 EA Electrical Power Control For Dosing Siphon	2,195.98	
33 40 Stormwater Utilities (33)		
33 41 Subdrainage (33 40)		
33 41 16 Subdrainage Piping (33 41)		
See CSI section 33 42 11 00-0239 for polyethylene drain pipe.		
33 41 16 00-0001 Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729 (33 41 16)		
Note: Includes fittings, couplings, elbows, etc.		
33 41 16 00-0002 LF 3" Perforated Polyvinyl Chloride (PVC) Drainage Piping	5.51	3.44
33 41 16 00-0003 LF 4" Perforated Polyvinyl Chloride (PVC) Drainage Piping	6.00	3.70
33 41 16 00-0004 LF 6" Perforated Polyvinyl Chloride (PVC) Drainage Piping	8.39	4.44
33 41 16 00-0005 LF 8" Perforated Polyvinyl Chloride (PVC) Drainage Piping	12.94	5.56
33 41 16 00-0006 LF 10" Perforated Polyvinyl Chloride (PVC) Drainage Piping	21.11	6.35
33 41 16 00-0007 LF 12" Perforated Polyvinyl Chloride (PVC) Drainage Piping	27.17	7.41
33 41 16 00-0008 LF 15" Perforated Polyvinyl Chloride (PVC) Drainage Piping	41.14	8.90
33 41 16 00-0009 Perforated Non Reinforced Concrete Drainage Piping, C444 (33 41 16)		
33 41 16 00-0010 LF 6" Perforated Non Reinforced Concrete Drainage Pipe	25.02	9.81
For Extra Strength, Add	1.29	
For >1,000, Deduct	-1.25	
33 41 16 00-0011 LF 8" Perforated Non Reinforced Concrete Drainage Pipe	29.15	10.90
For Extra Strength, Add	1.59	
For >1,000, Deduct	-1.46	
33 41 16 00-0012 LF 10" Perforated Non Reinforced Concrete Drainage Pipe	32.93	12.00
For Extra Strength, Add	1.85	
For >1,000, Deduct	-1.65	
33 41 16 00-0013 LF 12" Perforated Non Reinforced Concrete Drainage Pipe	38.49	13.09
For Extra Strength, Add	2.33	
For >1,000, Deduct	-1.92	
33 41 16 00-0014 Extra Strength Porous Non Reinforced Concrete Drainage Piping, C654 (33 41 16)		
Note: Bell and spigot or tongue and groove. With seals and gaskets.		
33 41 16 00-0015 LF 6" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	21.02	9.81
For >1,000, Deduct	-1.05	
33 41 16 00-0016 LF 8" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	23.27	10.90
For >1,000, Deduct	-1.16	
33 41 16 00-0017 LF 10" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	25.67	12.00
For >1,000, Deduct	-1.28	
33 41 16 00-0018 LF 12" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	29.19	12.46
For >1,000, Deduct	-1.46	
33 41 16 00-0019 LF 15" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	33.81	14.02
For >1,000, Deduct	-1.69	
33 41 16 00-0020 LF 18" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	41.86	17.92
For >1,000, Deduct	-2.09	
33 41 16 00-0021 LF 21" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	52.33	22.99
For >1,000, Deduct	-2.62	
33 41 16 00-0022 LF 24" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	63.79	28.05
For >1,000, Deduct	-3.19	
33 41 16 00-0023 Standard Strength Porous Non Reinforced Concrete Drainage Piping, C654 (33 41 16)		
33 41 16 00-0024 LF 6" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	19.69	9.81
For >1,000, Deduct	-0.98	
33 41 16 00-0025 LF 8" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	24.73	10.90
For >1,000, Deduct	-1.24	
33 41 16 00-0026 LF 10" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	30.97	12.00
For >1,000, Deduct	-1.55	
33 41 16 00-0027 LF 12" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	37.31	13.09
For >1,000, Deduct	-1.87	
33 41 16 00-0028 LF 15" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	42.65	14.56
For >1,000, Deduct	-2.13	
33 41 16 00-0029 LF 18" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	55.14	18.16
For >1,000, Deduct	-2.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 00-0030 Perforated Vitrified Clay Drainage Piping, C700 <small>(33 41 16)</small>		
33 41 16 00-0031 LF 4" Perforated Vitrified Clay Drainage Pipe.....	22.01	10.90
33 41 16 00-0032 LF 6" Perforated Vitrified Clay Drainage Pipe.....	26.65	12.27
33 41 16 00-0033 LF 8" Perforated Vitrified Clay Drainage Pipe.....	31.21	12.27
33 41 16 00-0034 LF 10" Perforated Vitrified Clay Drainage Pipe.....	42.53	15.00
33 41 16 00-0035 LF 12" Perforated Vitrified Clay Drainage Pipe.....	51.23	16.36
33 41 16 00-0036 Geotextile Filter Fabric Sock <small>(33 41 16)</small>		
33 41 16 00-0037 LF 3" Geotextile Filter Fabric Sock.....	0.57	
33 41 16 00-0038 LF 4" Geotextile Filter Fabric Sock.....	0.74	
33 41 16 00-0039 LF 6" Geotextile Filter Fabric Sock.....	1.13	
33 41 16 00-0040 LF 8" Geotextile Filter Fabric Sock.....	1.51	
33 41 16 00-0041 LF 10" Geotextile Filter Fabric Sock.....	2.21	
33 41 16 00-0042 LF 12" Geotextile Filter Fabric Sock.....	2.98	
33 41 16 00-0043 LF 15" Geotextile Filter Fabric Sock.....	3.50	
33 41 16 00-0044 Strip-Perforated, Galvanized, Corrugated Steel Pipe <small>(33 41 16)</small>		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 00-0045 LF 6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	16.46	4.67
For Full Perforated, Add	0.71	
33 41 16 00-0046 LF 8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	20.70	5.67
For Full Perforated, Add	0.94	
33 41 16 00-0047 LF 10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	26.12	7.20
For Full Perforated, Add	1.17	
33 41 16 00-0048 LF 12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	29.28	8.50
For Full Perforated, Add	1.23	
33 41 16 00-0049 LF 15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	33.03	8.80
For Full Perforated, Add	1.54	
33 41 16 00-0050 LF 18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	36.89	9.12
For Full Perforated, Add	1.86	
33 41 16 00-0051 LF 21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	41.87	9.84
For Full Perforated, Add	2.22	
33 41 16 00-0052 Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <small>(33 41 16)</small>		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 00-0053 LF 6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	17.60	4.67
For Full Perforated, Add	0.83	
33 41 16 00-0054 LF 8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	22.25	5.67
For Full Perforated, Add	1.09	
33 41 16 00-0055 LF 10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	28.01	7.20
For Full Perforated, Add	1.36	
33 41 16 00-0056 LF 12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	31.12	8.50
For Full Perforated, Add	1.41	
33 41 16 00-0057 LF 15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	35.31	8.80
For Full Perforated, Add	1.77	
33 41 16 00-0058 LF 18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	39.59	9.12
For Full Perforated, Add	2.13	
33 41 16 00-0059 LF 21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	45.01	9.84
For Full Perforated, Add	2.53	
33 41 16 00-0060 Strip-Perforated, Corrugated Aluminum Pipe <small>(33 41 16)</small>		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 00-0061 LF 6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	17.97	4.67
For Full Perforated, Add	0.86	
33 41 16 00-0062 LF 8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	22.72	5.67
For Full Perforated, Add	1.14	
33 41 16 00-0063 LF 10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	28.62	7.20
For Full Perforated, Add	1.42	
33 41 16 00-0064 LF 12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	35.66	8.50
For Full Perforated, Add	1.87	
33 41 16 00-0065 LF 15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	40.95	8.80
For Full Perforated, Add	2.34	
33 41 16 00-0066 LF 18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	46.43	9.12
For Full Perforated, Add	2.82	
33 41 16 00-0067 LF 21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	52.99	9.84
For Full Perforated, Add	3.33	
33 41 16 00-0068 Prefabricated Composite Drains <small>(33 41 16)</small>		
33 41 16 00-0069 Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE) <small>(33 41 16 00-0068)</small>		
Note: Excludes excavation and backfill. See CSI section 31 23 16 13-0000 for excavation and backfill.		
33 41 16 00-0070 LF 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	7.26	1.78
For External Typar Geotextile Wrap, Add	1.16	
33 41 16 00-0071 EA Coupler For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	31.62	
33 41 16 00-0072 EA End Cap For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	31.62	
33 41 16 00-0073 EA Side Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	58.54	

33	Utilities
33 40	Stormwater Utilities
33 41	Subdrainage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 00-0074 EA End Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	58.54	
33 41 16 00-0075 LF 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	11.27	2.23
<i>For External Typar Geotextile Wrap, Add</i>	1.74	
33 41 16 00-0076 EA Coupler For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	45.44	
33 41 16 00-0077 EA End Cap For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	45.44	
33 41 16 00-0078 EA Side Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	65.49	
33 41 16 00-0079 EA End Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	65.49	

33 41 19 Underslab Drainage (33 41)

33 41 19 00-0001	Capillary Water Barrier Underslab Drainage (33 41 19)		
	Note: Consists of a layer of fine granular material overlying a coarse layer.		
33 41 19 00-0002 CY	2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	25.56	
33 41 19 00-0003 CY	4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	23.48	
33 41 19 00-0004 CY	6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	22.65	
33 41 19 00-0005 CY	8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	21.40	

33 42 Stormwater Conveyance (33 40)

Note: Piping includes hydrostatic testing, disinfecting and warning tape. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 42 11 Stormwater Gravity Piping (33 42)

33 42 11 00-0001	Reinforced Concrete Piping (33 42 11)		
33 42 11 00-0002	Class 3 Reinforced Concrete Pipe Without Gaskets (33 42 11 00-0001)		
33 42 11 00-0003 LF	12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	37.17	13.09
	<i>For Class 4, Add</i>	1.75	
	<i>For Class 5, Add</i>	3.69	
	<i>For >1,000, Deduct</i>	-1.86	
33 42 11 00-0004 LF	15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	44.46	14.56
	<i>For Class 4, Add</i>	2.25	
	<i>For Class 5, Add</i>	4.73	
	<i>For >1,000, Deduct</i>	-2.22	
33 42 11 00-0005 LF	18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	50.82	18.16
	<i>For Class 4, Add</i>	2.36	
	<i>For Class 5, Add</i>	4.98	
	<i>For >1,000, Deduct</i>	-2.54	
33 42 11 00-0006 LF	21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	65.06	22.91
	<i>For Class 4, Add</i>	3.07	
	<i>For Class 5, Add</i>	6.47	
	<i>For >1,000, Deduct</i>	-3.25	
33 42 11 00-0007 LF	24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	76.33	27.82
	<i>For Class 4, Add</i>	3.48	
	<i>For Class 5, Add</i>	7.32	
	<i>For >1,000, Deduct</i>	-3.82	
33 42 11 00-0008 LF	27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	96.52	35.23
	<i>For Class 4, Add</i>	4.39	
	<i>For Class 5, Add</i>	9.24	
	<i>For >1,000, Deduct</i>	-4.83	
33 42 11 00-0009 LF	30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	102.54	36.38
	<i>For Class 4, Add</i>	4.75	
	<i>For Class 5, Add</i>	9.99	
	<i>For >1,000, Deduct</i>	-5.13	
33 42 11 00-0010 LF	36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	126.21	41.34
	<i>For Class 4, Add</i>	6.44	
	<i>For Class 5, Add</i>	13.55	
	<i>For >1,000, Deduct</i>	-6.31	
33 42 11 00-0011 LF	42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	162.36	45.47
	<i>For Class 4, Add</i>	9.31	
	<i>For Class 5, Add</i>	19.61	
	<i>For >1,000, Deduct</i>	-8.12	
33 42 11 00-0012 LF	48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	193.93	50.64
	<i>For Class 4, Add</i>	11.55	
	<i>For Class 5, Add</i>	24.32	
	<i>For >1,000, Deduct</i>	-9.70	
33 42 11 00-0013 LF	54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	240.56	57.88
	<i>For Class 4, Add</i>	15.00	
	<i>For Class 5, Add</i>	31.58	
	<i>For >1,000, Deduct</i>	-12.03	
33 42 11 00-0014 LF	60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	290.08	67.14
	<i>For Class 4, Add</i>	18.45	
	<i>For Class 5, Add</i>	38.83	
	<i>For >1,000, Deduct</i>	-14.50	
33 42 11 00-0015 LF	66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	442.68	74.41
	<i>For Class 4, Add</i>	32.00	
	<i>For Class 5, Add</i>	67.37	
	<i>For >1,000, Deduct</i>	-22.13	
33 42 11 00-0016 LF	72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	515.65	81.03
	<i>For Class 4, Add</i>	37.99	
	<i>For Class 5, Add</i>	79.98	
	<i>For >1,000, Deduct</i>	-25.78	



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0017	LF		78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	619.15	90.95
			For Class 4, Add	46.45	
			For Class 5, Add	97.78	
			For >1,000, Deduct	-30.96	
33 42 11 00-0018	LF		84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	795.11	101.28
			For Class 4, Add	61.79	
			For Class 5, Add	130.08	
			For >1,000, Deduct	-39.76	
33 42 11 00-0019	LF		14" x 23" Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size).....	88.34	24.15
			For Class 4, Add	5.11	
			For Class 5, Add	10.77	
			For Horizontal Elliptical - II (HE- II), Add	5.38	
			For Horizontal Elliptical - III (HE- III), Add	11.84	
			For Horizontal Elliptical - IV (HE- IV), Add	25.84	
			For >1,000, Deduct	-4.42	
33 42 11 00-0020	LF		19" x 30" Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size).....	123.29	36.99
			For Class 4, Add	6.69	
			For Class 5, Add	14.09	
			For Horizontal Elliptical - II (HE- II), Add	7.04	
			For Horizontal Elliptical - III (HE- III), Add	15.50	
			For Horizontal Elliptical - IV (HE- IV), Add	33.81	
			For >1,000, Deduct	-6.16	
33 42 11 00-0021	LF		22" x 34" Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size).....	145.69	46.86
			For Class 4, Add	7.48	
			For Class 5, Add	15.75	
			For Horizontal Elliptical - II (HE- II), Add	7.88	
			For Horizontal Elliptical - III (HE- III), Add	17.33	
			For Horizontal Elliptical - IV (HE- IV), Add	37.80	
			For >1,000, Deduct	-7.28	
33 42 11 00-0022	LF		24" x 38" Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size).....	154.52	48.96
			For Class 4, Add	8.04	
			For Class 5, Add	16.92	
			For Horizontal Elliptical - II (HE- II), Add	8.46	
			For Horizontal Elliptical - III (HE- III), Add	18.61	
			For Horizontal Elliptical - IV (HE- IV), Add	40.60	
			For >1,000, Deduct	-7.73	
33 42 11 00-0023	LF		27" x 42" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size).....	176.69	51.69
			For Class 4, Add	9.77	
			For Class 5, Add	20.57	
			For Horizontal Elliptical - II (HE- II), Add	10.29	
			For Horizontal Elliptical - III (HE- III), Add	22.63	
			For Horizontal Elliptical - IV (HE- IV), Add	49.37	
			For >1,000, Deduct	-8.83	
33 42 11 00-0024	LF		29" x 45" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size).....	198.86	54.42
			For Class 4, Add	11.51	
			For Class 5, Add	24.22	
			For Horizontal Elliptical - II (HE- II), Add	12.11	
			For Horizontal Elliptical - III (HE- III), Add	26.65	
			For Horizontal Elliptical - IV (HE- IV), Add	58.14	
			For >1,000, Deduct	-9.94	
33 42 11 00-0025	LF		34" x 53" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size).....	241.37	59.88
			For Class 4, Add	14.80	
			For Class 5, Add	31.16	
			For Horizontal Elliptical - II (HE- II), Add	15.58	
			For Horizontal Elliptical - III (HE- III), Add	34.28	
			For Horizontal Elliptical - IV (HE- IV), Add	74.79	
			For >1,000, Deduct	-12.07	
33 42 11 00-0026	LF		38" x 60" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size).....	290.08	67.36
			For Class 4, Add	18.42	
			For Class 5, Add	38.77	
			For Horizontal Elliptical - II (HE- II), Add	19.39	
			For Horizontal Elliptical - III (HE- III), Add	42.65	
			For Horizontal Elliptical - IV (HE- IV), Add	93.05	
			For >1,000, Deduct	-14.50	
33 42 11 00-0027	LF		43" x 68" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size).....	330.26	76.97
			For Class 4, Add	20.93	
			For Class 5, Add	44.06	
			For Horizontal Elliptical - II (HE- II), Add	22.03	
			For Horizontal Elliptical - III (HE- III), Add	48.47	
			For Horizontal Elliptical - IV (HE- IV), Add	105.74	
			For >1,000, Deduct	-16.51	
33 42 11 00-0028	LF		48" x 76" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size).....	408.08	89.30
			For Class 4, Add	26.65	
			For Class 5, Add	56.10	
			For Horizontal Elliptical - II (HE- II), Add	28.05	
			For Horizontal Elliptical - III (HE- III), Add	61.71	
			For Horizontal Elliptical - IV (HE- IV), Add	134.65	
			For >1,000, Deduct	-20.40	
33 42 11 00-0029	LF		53" x 83" Elliptical Reinforced Concrete Pipe without Gaskets (66" Diameter Equivalent Round Size).....	465.22	98.40
			For Class 4, Add	30.84	
			For Class 5, Add	64.93	
			For >1,000, Deduct	-23.26	
33 42 11 00-0030	LF		58" x 91" Elliptical Reinforced Concrete Pipe without Gaskets (72" Diameter Equivalent Round Size).....	562.41	107.48
			For Class 4, Add	38.80	
			For Class 5, Add	81.69	
			For >1,000, Deduct	-28.12	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0031	LF		63" x 98" Elliptical Reinforced Concrete Pipe without Gaskets (78" Diameter Equivalent Round Size).....	670.67	121.54
			<i>For Class 4, Add</i>	47.26	
			<i>For Class 5, Add</i>	99.49	
			<i>For >1,000, Deduct</i>	-33.53	
33 42 11 00-0032	LF		68" x 106" Elliptical Reinforced Concrete Pipe without Gaskets (84" Diameter Equivalent Round Size).....	726.56	134.77
			<i>For Class 4, Add</i>	50.74	
			<i>For Class 5, Add</i>	106.82	
			<i>For >1,000, Deduct</i>	-36.33	
33 42 11 00-0033	LF		72" x 113" Elliptical Reinforced Concrete Pipe without Gaskets (90" Diameter Equivalent Round Size).....	925.74	141.39
			<i>For Class 4, Add</i>	68.75	
			<i>For Class 5, Add</i>	144.74	
			<i>For >1,000, Deduct</i>	-46.29	
33 42 11 00-0034	LF		77" x 121" Elliptical Reinforced Concrete Pipe without Gaskets (96" Diameter Equivalent Round Size).....	1,070.48	148.00
			<i>For Class 4, Add</i>	81.59	
			<i>For Class 5, Add</i>	171.76	
			<i>For >1,000, Deduct</i>	-53.52	
33 42 11 00-0035			Concrete Reducing Wye Without Gaskets (33 42 11 00-0001)		
33 42 11 00-0036	EA		12" Concrete Reducing Wye Without Gaskets.....	436.78	49.87
33 42 11 00-0037	EA		15" Concrete Reducing Wye Without Gaskets.....	523.95	60.77
33 42 11 00-0038	EA		18" Concrete Reducing Wye Without Gaskets.....	646.24	67.01
33 42 11 00-0039	EA		21" Concrete Reducing Wye Without Gaskets.....	742.58	82.59
33 42 11 00-0040	EA		24" Concrete Reducing Wye Without Gaskets.....	840.13	99.73
33 42 11 00-0041			Concrete Pipe Joint Gaskets (33 42 11 00-0001)		
33 42 11 00-0042	EA		12" Diameter Concrete Pipe Joint Gasket.....	4.10	
33 42 11 00-0043	EA		15" Diameter Concrete Pipe Joint Gasket.....	4.85	
33 42 11 00-0044	EA		18" Diameter Concrete Pipe Joint Gasket.....	5.62	
33 42 11 00-0045	EA		21" Diameter Concrete Pipe Joint Gasket.....	6.79	
33 42 11 00-0046	EA		24" Diameter Concrete Pipe Joint Gasket.....	7.95	
33 42 11 00-0047	EA		27" Diameter Concrete Pipe Joint Gasket.....	8.86	
33 42 11 00-0048	EA		30" Diameter Concrete Pipe Joint Gasket.....	9.74	
33 42 11 00-0049	EA		36" Diameter Concrete Pipe Joint Gasket.....	11.89	
33 42 11 00-0050	EA		42" Diameter Concrete Pipe Joint Gasket.....	13.79	
33 42 11 00-0051	EA		48" Diameter Concrete Pipe Joint Gasket.....	15.90	
33 42 11 00-0052	EA		54" Diameter Concrete Pipe Joint Gasket.....	19.49	
33 42 11 00-0053	EA		60" Diameter Concrete Pipe Joint Gasket.....	28.86	
33 42 11 00-0054	EA		66" Diameter Concrete Pipe Joint Gasket.....	29.99	
33 42 11 00-0055	EA		72" Diameter Concrete Pipe Joint Gasket.....	31.10	
33 42 11 00-0056	EA		78" Diameter Concrete Pipe Joint Gasket.....	35.82	
33 42 11 00-0057	EA		84" Diameter Concrete Pipe Joint Gasket.....	42.94	
33 42 11 00-0058			Couplings (33 42 11 00-0001)		
33 42 11 00-0059			Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings (33 42 11 00-0058)		
			Note: For concrete to cast iron or plastic pipe. Includes stainless steel clamps. Fernco 1006.		
33 42 11 00-0060	EA		4" x 3" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	33.40	
33 42 11 00-0061	EA		4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	30.81	
33 42 11 00-0062	EA		6" x 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	52.71	
33 42 11 00-0063	EA		6" x 5" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	54.78	
33 42 11 00-0064	EA		6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	50.80	
33 42 11 00-0065	EA		8" x 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	78.30	
33 42 11 00-0066	EA		8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	67.49	
33 42 11 00-0067	EA		10" x 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	98.75	
33 42 11 00-0068	EA		10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	87.34	
33 42 11 00-0069	EA		12" x 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	119.51	
33 42 11 00-0070	EA		12" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	99.74	
33 42 11 00-0071	EA		15" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	313.24	
33 42 11 00-0072			Precast Concrete Cut Off Wall (33 42 11 00-0001)		
33 42 11 00-0073	EA		12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	219.74	145.52
33 42 11 00-0074	EA		15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	270.94	180.24
33 42 11 00-0075	EA		18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	335.37	228.20
33 42 11 00-0076	EA		21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	396.50	272.85
33 42 11 00-0077	EA		24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	455.89	315.76
33 42 11 00-0078	EA		27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	560.08	403.48
33 42 11 00-0079	EA		30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	728.85	555.62
33 42 11 00-0080	EA		36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	907.47	701.14
33 42 11 00-0081	EA		42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,118.70	879.56
33 42 11 00-0082	EA		48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,251.13	991.36
33 42 11 00-0083	EA		54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,396.25	1,111.24
33 42 11 00-0084	EA		60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,543.19	1,234.43
33 42 11 00-0085	EA		66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,603.68	1,281.56
33 42 11 00-0086	EA		72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,656.90	1,322.91
33 42 11 00-0087	EA		78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,710.11	1,364.24
33 42 11 00-0088	EA		84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,764.81	1,405.58



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0089 Strap Assembly <small>(33 42 11 00-0001)</small>		
Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.		
33 42 11 00-0090 EA Up To 24" Diameter Pipe, 12' Strap Assembly	169.62	
33 42 11 00-0091 EA >24" Diameter Pipe, 12' Strap Assembly	238.22	
33 42 11 00-0092 Prestressed Concrete Cylinder Piping <small>(33 42 11)</small>		
33 42 11 00-0093 150 PSI Prestressed Concrete Cylinder Pipe And Fittings <small>(33 42 11 00-0093)</small>		
33 42 11 00-0094 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets <small>(33 42 11 00-0093)</small>		
Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".		
33 42 11 00-0095 LF 12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	98.29	13.09
For 100 PSI, Deduct	-19.90	
For >1,000, Deduct	-4.91	
33 42 11 00-0096 LF 15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	105.00	14.56
For 100 PSI, Deduct	-21.05	
For >1,000, Deduct	-5.25	
33 42 11 00-0097 LF 18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	114.75	18.16
For 100 PSI, Deduct	-22.20	
For >1,000, Deduct	-5.74	
33 42 11 00-0098 LF 21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	126.14	22.91
For 100 PSI, Deduct	-23.36	
For >1,000, Deduct	-6.31	
33 42 11 00-0099 LF 24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	137.77	27.82
For 100 PSI, Deduct	-24.51	
For >1,000, Deduct	-6.89	
33 42 11 00-0100 LF 30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	162.34	36.38
For 100 PSI, Deduct	-27.44	
For >1,000, Deduct	-8.12	
33 42 11 00-0101 LF 36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	179.95	41.34
For 100 PSI, Deduct	-30.37	
For >1,000, Deduct	-9.00	
33 42 11 00-0102 LF 42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	208.44	45.47
For 100 PSI, Deduct	-36.03	
For >1,000, Deduct	-10.42	
33 42 11 00-0103 LF 48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	239.07	50.64
For 100 PSI, Deduct	-41.68	
For >1,000, Deduct	-11.95	
33 42 11 00-0104 LF 54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	315.47	64.82
For 100 PSI, Deduct	-55.72	
For >1,000, Deduct	-15.77	
33 42 11 00-0105 LF 60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	379.71	75.19
For 100 PSI, Deduct	-68.08	
For >1,000, Deduct	-18.99	
33 42 11 00-0106 LF 66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	426.43	83.33
For 100 PSI, Deduct	-76.98	
For >1,000, Deduct	-21.32	
33 42 11 00-0107 LF 72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	475.24	90.75
For 100 PSI, Deduct	-86.40	
For >1,000, Deduct	-23.76	
33 42 11 00-0108 LF 78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	539.61	101.85
For 100 PSI, Deduct	-98.45	
For >1,000, Deduct	-26.98	
33 42 11 00-0109 LF 84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	604.00	113.42
For 100 PSI, Deduct	-110.49	
For >1,000, Deduct	-30.20	
33 42 11 00-0110 LF 90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	744.89	132.41
For 100 PSI, Deduct	-138.77	
For >1,000, Deduct	-37.24	
33 42 11 00-0111 LF 96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	875.82	151.21
For 100 PSI, Deduct	-164.95	
For >1,000, Deduct	-43.79	
33 42 11 00-0112 LF 102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,018.16	162.88
For 100 PSI, Deduct	-196.37	
For >1,000, Deduct	-50.91	
33 42 11 00-0113 LF 108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,147.77	172.96
For 100 PSI, Deduct	-225.17	
For >1,000, Deduct	-57.39	
33 42 11 00-0114 LF 114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,382.10	183.04
For 100 PSI, Deduct	-280.15	
For >1,000, Deduct	-69.11	
33 42 11 00-0115 LF 120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,604.75	192.28
For 100 PSI, Deduct	-332.52	
For >1,000, Deduct	-80.24	
33 42 11 00-0116 LF 126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,747.81	201.52
For 100 PSI, Deduct	-364.99	
For >1,000, Deduct	-87.39	
33 42 11 00-0117 LF 132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,892.96	210.74
For 100 PSI, Deduct	-397.98	
For >1,000, Deduct	-94.65	
33 42 11 00-0118 LF 138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,037.07	219.98
For 100 PSI, Deduct	-430.70	
For >1,000, Deduct	-101.85	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0119 LF 144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For 100 PSI, Deduct</i> <i>For >1,000, Deduct</i>	2,181.17 -463.43 -109.06	229.21
33 42 11 00-0120 150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets (33		
<small>42 11 00-0093)</small>		
33 42 11 00-0121 EA 12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	352.25	122.72
33 42 11 00-0122 EA 15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	488.86	175.31
33 42 11 00-0123 EA 18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	630.87	233.74
33 42 11 00-0124 EA 21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	772.87	292.19
33 42 11 00-0125 EA 24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	940.58	363.08
33 42 11 00-0126 EA 30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,201.74	486.97
33 42 11 00-0127 EA 36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,492.45	578.77
33 42 11 00-0128 EA 42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,738.51	675.51
33 42 11 00-0129 EA 48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,960.21	771.42
33 42 11 00-0130 EA 54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,415.05	963.24
33 42 11 00-0131 EA 60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,152.86	1,296.31
33 42 11 00-0132 EA 66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,517.79	1,435.20
33 42 11 00-0133 EA 72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,882.73	1,574.09
33 42 11 00-0134 EA 78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,645.82	1,805.57
33 42 11 00-0135 EA 84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,403.81	2,037.06
33 42 11 00-0136 EA 90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,384.74	2,314.84
33 42 11 00-0137 EA 96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,360.54	2,592.62
33 42 11 00-0138 EA 102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	9,753.31	3,274.48
33 42 11 00-0139 EA 108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	12,123.71	3,929.38
33 42 11 00-0140 EA 114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	15,788.27	5,239.17
33 42 11 00-0141 EA 120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	19,390.85	6,548.96
33 42 11 00-0142 EA 126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	21,805.87	7,063.52
33 42 11 00-0143 EA 132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	24,224.36	7,578.08
33 42 11 00-0144 EA 138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	31,187.65	8,092.65
33 42 11 00-0145 EA 144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	29,109.37	8,607.20
33 42 11 00-0146 150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets (33		
<small>42 11 00-0093)</small>		
33 42 11 00-0147 EA 12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	330.89	122.72
33 42 11 00-0148 EA 15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	461.21	175.31
33 42 11 00-0149 EA 18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	598.19	233.74
33 42 11 00-0150 EA 21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	735.17	292.19
33 42 11 00-0151 EA 24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	897.85	363.08
33 42 11 00-0152 EA 30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,143.10	454.25
33 42 11 00-0153 EA 36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,425.42	578.77
33 42 11 00-0154 EA 42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,661.01	675.51
33 42 11 00-0155 EA 48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,876.84	771.42
33 42 11 00-0156 EA 54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,292.52	963.24
33 42 11 00-0157 EA 60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,040.03	1,296.31
33 42 11 00-0158 EA 66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,396.78	1,435.20
33 42 11 00-0159 EA 72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,753.54	1,574.09
33 42 11 00-0160 EA 78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,344.26	1,805.57
33 42 11 00-0161 EA 84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,929.88	2,037.06
33 42 11 00-0162 EA 90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,786.64	2,314.84
33 42 11 00-0163 EA 96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,638.28	2,592.62
33 42 11 00-0164 EA 102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,621.97	3,240.78
33 42 11 00-0165 EA 108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	10,718.10	3,929.38
33 42 11 00-0166 EA 114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	14,040.68	5,239.17
33 42 11 00-0167 EA 120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	17,301.28	6,548.96
33 42 11 00-0168 EA 126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	19,256.22	7,063.52
33 42 11 00-0169 EA 132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	21,214.63	8,607.20
33 42 11 00-0170 EA 138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	23,178.97	8,092.65
33 42 11 00-0171 EA 144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	25,396.27	8,607.20
33 42 11 00-0172 400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0092)		
33 42 11 00-0173 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11		
<small>00-0172)</small>		
Note: AWWA C301		
33 42 11 00-0174 LF 30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	189.89 -9.49	36.38
33 42 11 00-0175 LF 36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	230.82 -11.54	41.34
33 42 11 00-0176 LF 42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	268.83 -13.44	45.47
33 42 11 00-0177 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular		
Joints (33 42 11 00-0172)		
Note: AWWA C301		
33 42 11 00-0178 LF 48" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	360.39 -18.02	50.60
33 42 11 00-0179 LF 54" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	431.91 -21.60	64.82



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0180 LF 60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	497.98	75.19
For >1,000, Deduct	-24.90	
33 42 11 00-0181 LF 66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	560.35	83.33
For >1,000, Deduct	-28.02	
33 42 11 00-0182 LF 72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	677.08	90.75
For >1,000, Deduct	-33.85	
33 42 11 00-0183		
Welded Joints For Prestressed Concrete Cylinder Pipe <small>(33 42 11 00-0172)</small>		
Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.		
33 42 11 00-0184 EA 30" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,308.69	
33 42 11 00-0185 EA 36" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,405.64	
33 42 11 00-0186 EA 42" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,454.11	
33 42 11 00-0187 EA 48" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,647.99	
33 42 11 00-0188 EA 54" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,696.46	
33 42 11 00-0189 EA 60" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,793.40	
33 42 11 00-0190 EA 66" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,841.87	
33 42 11 00-0191 EA 72" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,890.34	
33 42 11 00-0192 EA 30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,423.51	
33 42 11 00-0193 EA 36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,423.51	
33 42 11 00-0194 EA 42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,762.80	
33 42 11 00-0195 EA 48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,762.80	
33 42 11 00-0196 EA 54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,956.68	
33 42 11 00-0197 EA 60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,956.68	
33 42 11 00-0198 EA 66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,199.03	
33 42 11 00-0199 EA 72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,199.03	
33 42 11 00-0200		
Quick Test Joints <small>(33 42 11 00-0172)</small>		
33 42 11 00-0201 EA 30" Quick Test Joint.....	358.80	
33 42 11 00-0202 EA 36" Quick Test Joint.....	362.94	
33 42 11 00-0203 EA 42" Quick Test Joint.....	367.07	
33 42 11 00-0204 EA 48" Quick Test Joint.....	375.23	
33 42 11 00-0205 EA 54" Quick Test Joint.....	394.65	
33 42 11 00-0206 EA 60" Quick Test Joint.....	410.62	
33 42 11 00-0207 EA 66" Quick Test Joint.....	433.30	
33 42 11 00-0208 EA 72" Quick Test Joint.....	455.98	
33 42 11 00-0209		
Harnessed Joints <small>(33 42 11 00-0172)</small>		
33 42 11 00-0210		
Harness Clamp Restrained Joints <small>(33 42 11 00-0209)</small>		
33 42 11 00-0211 EA 30" Harness Clamp Restrained Joint.....	2,242.16	
33 42 11 00-0212 EA 36" Harness Clamp Restrained Joint.....	2,330.00	
33 42 11 00-0213 EA 42" Harness Clamp Restrained Joint.....	2,417.82	
33 42 11 00-0214 EA 48" Harness Clamp Restrained Joint.....	2,505.65	
33 42 11 00-0215 EA 54" Harness Clamp Restrained Joint.....	2,603.40	
33 42 11 00-0216 EA 60" Harness Clamp Restrained Joint.....	2,738.19	
33 42 11 00-0217 EA 66" Harness Clamp Restrained Joint.....	2,831.14	
33 42 11 00-0218 EA 72" Harness Clamp Restrained Joint.....	3,032.90	
33 42 11 00-0219		
Snap Ring Restrained Joints <small>(33 42 11 00-0209)</small>		
33 42 11 00-0220 EA 30" Snap Ring Restrained Joint.....	400.91	
33 42 11 00-0221 EA 36" Snap Ring Restrained Joint.....	455.27	
33 42 11 00-0222 EA 42" Snap Ring Restrained Joint.....	601.68	
33 42 11 00-0223 EA 48" Snap Ring Restrained Joint.....	681.14	
33 42 11 00-0224 EA 54" Snap Ring Restrained Joint.....	770.52	
33 42 11 00-0225 EA 60" Snap Ring Restrained Joint.....	871.83	
33 42 11 00-0226 EA 66" Snap Ring Restrained Joint.....	964.78	
33 42 11 00-0227 EA 72" Snap Ring Restrained Joint.....	1,074.47	
33 42 11 00-0228		
Pipe Repairs <small>(33 42 11 00-0172)</small>		
Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJDI sleeve, 20' pipe.		
33 42 11 00-0229		
Lined Cylinder Pipe Repair <small>(33 42 11 00-0228)</small>		
33 42 11 00-0230 EA 30" Lined Cylinder Pipe Repair.....	5,090.57	
33 42 11 00-0231 EA 36" Lined Cylinder Pipe Repair.....	6,309.55	
33 42 11 00-0232 EA 42" Lined Cylinder Pipe Repair.....	7,346.23	
33 42 11 00-0233		
Embedded Cylinder Pipe Repair <small>(33 42 11 00-0228)</small>		
Note: Field welded concrete enclosure assembly with concrete pipe.		
33 42 11 00-0234 EA 48" Embedded Cylinder Pipe Repair.....	10,858.49	
33 42 11 00-0235 EA 54" Embedded Cylinder Pipe Repair.....	12,598.47	
33 42 11 00-0236 EA 60" Embedded Cylinder Pipe Repair.....	14,352.32	
33 42 11 00-0237 EA 66" Embedded Cylinder Pipe Repair.....	16,213.93	
33 42 11 00-0238 EA 72" Embedded Cylinder Pipe Repair.....	19,461.09	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 42 11 00-0239	High Density Polyethylene (HDPE) Piping <small>(33 42 11)</small>		
33 42 11 00-0240	Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0239)</small>		
	Note: Excludes couplings and gaskets.		
33 42 11 00-0241	Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0240)</small>		
33 42 11 00-0242	LF 4" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	11.92	5.35
	For <100, Add	2.14	
	For >1,000, Deduct	-0.60	
33 42 11 00-0243	LF 6" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	15.52	6.23
	For <100, Add	2.49	
	For >1,000, Deduct	-0.78	
33 42 11 00-0244	LF 8" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	19.06	7.25
	For <100, Add	2.90	
	For >1,000, Deduct	-0.95	
33 42 11 00-0245	LF 10" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	21.61	7.50
	For <100, Add	3.00	
	For >1,000, Deduct	-1.08	
33 42 11 00-0246	LF 12" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	22.70	7.76
	For <100, Add	3.10	
	For >1,000, Deduct	-1.14	
33 42 11 00-0247	LF 15" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	25.70	8.04
	For <100, Add	3.21	
	For >1,000, Deduct	-1.29	
33 42 11 00-0248	LF 18" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	31.01	8.34
	For <100, Add	3.33	
	For >1,000, Deduct	-1.55	
33 42 11 00-0249	LF 24" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	42.38	9.76
	For <100, Add	3.90	
	For >1,000, Deduct	-2.12	
33 42 11 00-0250	LF 30" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	60.05	13.14
	For <100, Add	5.26	
	For >1,000, Deduct	-3.00	
33 42 11 00-0251	LF 36" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	78.87	16.60
	For <100, Add	6.64	
	For >1,000, Deduct	-3.94	
33 42 11 00-0252	Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0240)</small>		
33 42 11 00-0253	LF 12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	22.57	7.76
	For <100, Add	3.10	
	For >1,000, Deduct	-1.13	
33 42 11 00-0254	LF 15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	26.20	8.04
	For <100, Add	3.21	
	For >1,000, Deduct	-1.31	
33 42 11 00-0255	LF 18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	31.77	8.34
	For <100, Add	3.33	
	For >1,000, Deduct	-1.59	
33 42 11 00-0256	LF 24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	43.58	9.76
	For <100, Add	3.90	
	For >1,000, Deduct	-2.18	
33 42 11 00-0257	LF 30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	63.35	13.14
	For <100, Add	5.26	
	For >1,000, Deduct	-3.17	
33 42 11 00-0258	LF 36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	81.32	16.60
	For <100, Add	6.64	
	For >1,000, Deduct	-4.07	
33 42 11 00-0259	LF 42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	105.68	18.11
	For <100, Add	7.25	
	For >1,000, Deduct	-5.28	
33 42 11 00-0260	LF 48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	115.30	20.43
	For <100, Add	8.17	
	For >1,000, Deduct	-5.77	
33 42 11 00-0261	Single Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0239)</small>		
	Note: Excludes couplings and gaskets.		
33 42 11 00-0262	Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0261)</small>		
33 42 11 00-0263	LF 4" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	11.46	5.35
	For <100, Add	2.14	
	For >1,000, Deduct	-0.57	
33 42 11 00-0264	LF 6" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	14.11	6.23
	For <100, Add	2.49	
	For >1,000, Deduct	-0.71	
33 42 11 00-0265	LF 8" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	17.39	7.25
	For <100, Add	2.90	
	For >1,000, Deduct	-0.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0266 LF 10" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	20.38 3.00 -1.02	7.50
33 42 11 00-0267 LF 12" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	22.23 3.10 -1.11	7.76
33 42 11 00-0268 LF 15" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	25.84 3.21 -1.29	8.04
33 42 11 00-0269 LF 18" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	31.96 3.33 -1.60	8.34
33 42 11 00-0270 LF 24" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	43.41 3.90 -2.17	9.76
33 42 11 00-0271 Perforated, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0239)</small> Note: Excludes couplings and gaskets.		
33 42 11 00-0272 Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0271)</small>		
33 42 11 00-0273 LF 4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	12.56 2.14 -0.63	5.35
33 42 11 00-0274 LF 6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	15.54 2.49 -0.78	6.23
33 42 11 00-0275 LF 8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	19.06 2.90 -0.95	7.25
33 42 11 00-0276 LF 10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	21.63 3.00 -1.08	7.50
33 42 11 00-0277 LF 12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	22.70 3.10 -1.14	7.76
33 42 11 00-0278 LF 15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	25.72 3.21 -1.29	8.04
33 42 11 00-0279 LF 18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	31.03 3.33 -1.55	8.34
33 42 11 00-0280 LF 24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	42.38 3.90 -2.12	9.76
33 42 11 00-0281 LF 30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	60.26 5.26 -3.01	13.14
33 42 11 00-0282 LF 36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	78.87 6.64 -3.94	16.60
33 42 11 00-0283 Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0271)</small>		
33 42 11 00-0284 LF 12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	22.59 3.10 -1.13	7.76
33 42 11 00-0285 LF 15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	26.22 3.21 -1.31	8.04
33 42 11 00-0286 LF 18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	31.79 3.33 -1.59	8.34
33 42 11 00-0287 LF 24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	43.58 3.90 -2.18	9.76
33 42 11 00-0288 LF 30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	63.35 5.26 -3.17	13.14
33 42 11 00-0289 LF 36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	81.32 6.64 -4.07	16.60
33 42 11 00-0290 LF 42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	105.68 7.25 -5.28	18.11

33	Utilities
33 40	Stormwater Utilities
33 42	Stormwater Conveyance



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0291	LF		48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	115.30	20.43
			<i>For <100, Add</i>	8.17	
			<i>For >1,000, Deduct</i>	-5.77	
33 42 11 00-0292			Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0271)</small>		
33 42 11 00-0293	LF		4" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	11.86	5.35
			<i>For <100, Add</i>	2.14	
			<i>For >1,000, Deduct</i>	-0.59	
33 42 11 00-0294	LF		6" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	14.11	6.23
			<i>For <100, Add</i>	2.49	
			<i>For >1,000, Deduct</i>	-0.71	
33 42 11 00-0295	LF		8" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	17.31	7.25
			<i>For <100, Add</i>	2.90	
			<i>For >1,000, Deduct</i>	-0.87	
33 42 11 00-0296	LF		10" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	20.38	7.50
			<i>For <100, Add</i>	3.00	
			<i>For >1,000, Deduct</i>	-1.02	
33 42 11 00-0297	LF		12" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	22.23	7.76
			<i>For <100, Add</i>	3.10	
			<i>For >1,000, Deduct</i>	-1.11	
33 42 11 00-0298	LF		15" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	25.84	8.04
			<i>For <100, Add</i>	3.21	
			<i>For >1,000, Deduct</i>	-1.29	
33 42 11 00-0299	LF		18" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	31.96	8.34
			<i>For <100, Add</i>	3.33	
			<i>For >1,000, Deduct</i>	-1.60	
33 42 11 00-0300	LF		24" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	43.41	9.76
			<i>For <100, Add</i>	3.90	
			<i>For >1,000, Deduct</i>	-2.17	
33 42 11 00-0301			Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings <small>(33 42 11 00-0239)</small>		
			Note: Excludes couplings and gaskets.		
33 42 11 00-0302			Tees, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0301)</small>		
33 42 11 00-0303	EA		4" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	50.37	19.14
33 42 11 00-0304	EA		6" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	63.15	22.34
33 42 11 00-0305	EA		8" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	101.30	27.13
33 42 11 00-0306	EA		10" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	153.93	33.51
33 42 11 00-0307	EA		12" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	241.93	39.89
33 42 11 00-0308	EA		15" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	341.14	52.13
33 42 11 00-0309	EA		18" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	490.24	70.20
33 42 11 00-0310	EA		24" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	627.54	80.14
33 42 11 00-0311	EA		30" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,093.02	92.55
33 42 11 00-0312	EA		36" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,402.89	106.90
33 42 11 00-0313	EA		42" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	2,331.73	127.65
33 42 11 00-0314	EA		48" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	2,926.06	151.58
33 42 11 00-0315			Wyes, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0301)</small>		
33 42 11 00-0316	EA		4" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	73.15	19.14
33 42 11 00-0317	EA		6" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	88.15	22.34
33 42 11 00-0318	EA		8" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	117.08	27.13
33 42 11 00-0319	EA		10" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	171.33	33.51
33 42 11 00-0320	EA		12" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	297.90	39.89
33 42 11 00-0321	EA		15" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	323.96	52.13
33 42 11 00-0322	EA		18" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	456.84	70.20
33 42 11 00-0323			22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0301)</small>		
33 42 11 00-0324	EA		4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	30.71	12.76
33 42 11 00-0325	EA		6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	37.84	14.90
33 42 11 00-0326	EA		8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	54.90	18.08
33 42 11 00-0327	EA		10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	69.06	22.34
33 42 11 00-0328	EA		12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	99.72	26.59
33 42 11 00-0329	EA		15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	156.90	34.04
33 42 11 00-0330	EA		18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	208.07	46.80
33 42 11 00-0331	EA		24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	391.95	53.18
33 42 11 00-0332	EA		30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	543.61	61.69
33 42 11 00-0333	EA		36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	636.95	71.27
33 42 11 00-0334	EA		42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	813.50	85.10
33 42 11 00-0335	EA		48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,098.60	101.06



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0336 45 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0301)</small>		
33 42 11 00-0337 EA 4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	33.20	12.76
33 42 11 00-0338 EA 6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	43.03	14.90
33 42 11 00-0339 EA 8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	57.56	18.08
33 42 11 00-0340 EA 10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	90.63	22.34
33 42 11 00-0341 EA 12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	99.72	26.59
33 42 11 00-0342 EA 15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	156.47	34.04
33 42 11 00-0343 EA 18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	242.85	46.80
33 42 11 00-0344 EA 24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	418.82	53.18
33 42 11 00-0345 EA 30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	544.88	61.69
33 42 11 00-0346 EA 36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	694.85	71.27
33 42 11 00-0347 EA 42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,037.00	85.10
33 42 11 00-0348 EA 48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,298.91	101.06
33 42 11 00-0349 Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings <small>(33 42 11 00-0239)</small> Note: Excludes couplings and gaskets.		
33 42 11 00-0350 Tees, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0349)</small>		
33 42 11 00-0351 EA 4" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	35.04	19.14
33 42 11 00-0352 EA 6" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	41.62	22.34
33 42 11 00-0353 EA 8" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	66.73	27.13
33 42 11 00-0354 EA 10" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	85.55	33.51
33 42 11 00-0355 EA 12" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	126.13	39.89
33 42 11 00-0356 EA 15" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	270.79	52.13
33 42 11 00-0357 EA 18" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	324.51	70.20
33 42 11 00-0358 EA 24" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	609.20	79.78
33 42 11 00-0359 Wyes, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0349)</small>		
33 42 11 00-0360 EA 4" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	35.98	19.14
33 42 11 00-0361 EA 6" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	44.70	22.34
33 42 11 00-0362 EA 8" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	98.98	27.13
33 42 11 00-0363 45 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0349)</small>		
33 42 11 00-0364 EA 4" 45 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	23.67	12.76
33 42 11 00-0365 90 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0349)</small>		
33 42 11 00-0366 EA 4" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	24.66	12.76
33 42 11 00-0367 EA 6" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	31.74	14.90
33 42 11 00-0368 EA 8" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	46.79	18.08
33 42 11 00-0369 EA 10" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	61.52	22.34
33 42 11 00-0370 Couplings And End Caps, Corrugated High Density Polyethylene (HDPE) Pipe <small>(33 42 11 00-0239)</small> Note: For single and double wall high density polyethylene (HDPE) piping.		
33 42 11 00-0371 Couplings, Corrugated High Density Polyethylene (HDPE) Pipe <small>(33 42 11 00-0370)</small>		
33 42 11 00-0372 EA 4" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	1.49	
33 42 11 00-0373 EA 6" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	2.67	
33 42 11 00-0374 EA 8" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	4.11	
33 42 11 00-0375 EA 10" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	5.05	
33 42 11 00-0376 EA 12" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	5.43	
33 42 11 00-0377 EA 15" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	7.73	
33 42 11 00-0378 EA 18" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	11.44	
33 42 11 00-0379 EA 24" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	18.21	
33 42 11 00-0380 EA 30" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	27.95	
33 42 11 00-0381 EA 36" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	36.58	
33 42 11 00-0382 EA 42" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	57.51	
33 42 11 00-0383 EA 48" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe.....	77.78	
33 42 11 00-0384 Self Adhering Gaskets, Corrugated High Density Polyethylene (HDPE) Pipe <small>(33 42 11 00-0370)</small>		
33 42 11 00-0385 EA 4" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	78.75	
33 42 11 00-0386 EA 6" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	82.46	
33 42 11 00-0387 EA 8" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	86.34	
33 42 11 00-0388 EA 10" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	90.40	
33 42 11 00-0389 EA 12" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	102.22	
33 42 11 00-0390 EA 15" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	110.70	
33 42 11 00-0391 EA 18" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	115.46	
33 42 11 00-0392 EA 24" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	131.51	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
33 42 11 00-0393	EA	30" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	210.82	
33 42 11 00-0394	EA	36" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	230.92	
33 42 11 00-0395	EA	42" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	251.61	
33 42 11 00-0396	EA	48" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	305.58	
33 42 11 00-0397		End Caps, Corrugated High Density Polyethylene (HDPE) Pipe <small>(33 42 11 00-0370)</small>		
33 42 11 00-0398	EA	6" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	22.46	
33 42 11 00-0399	EA	8" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	25.95	
33 42 11 00-0400	EA	10" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	39.54	
33 42 11 00-0401	EA	12" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	64.36	
33 42 11 00-0402	EA	15" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	74.40	
33 42 11 00-0403	EA	18" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	99.17	
33 42 11 00-0404	EA	24" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	103.37	
33 42 11 00-0405		Vitrified Clay Piping <small>(33 42 11)</small>		
33 42 11 00-0406		Extra Strength Vitrified Clay Piping <small>(33 42 11 00-0405)</small>		
33 42 11 00-0407		Plain Joint, Extra Strength, Vitrified Clay Piping <small>(33 42 11 00-0406)</small>		
		Note: ASTM C700.		
33 42 11 00-0408	LF	4" Plain Joint, Extra Strength, Vitrified Clay Pipe	18.45	
		For 3' Lengths, Add	1.95	
		For 2' Lengths, Add	2.60	
		For Standard Strength, Deduct	-0.65	
		For >1,000, Deduct	-0.92	
33 42 11 00-0409	LF	6" Plain Joint, Extra Strength, Vitrified Clay Pipe	30.47	
		For 3' Lengths, Add	3.02	
		For 2' Lengths, Add	4.03	
		For Standard Strength, Deduct	-1.01	
		For >1,000, Deduct	-1.52	
33 42 11 00-0410	LF	8" Plain Joint, Extra Strength, Vitrified Clay Pipe	37.05	
		For 3' Lengths, Add	4.32	
		For 2' Lengths, Add	5.76	
		For Standard Strength, Deduct	-1.44	
		For >1,000, Deduct	-1.85	
33 42 11 00-0411	LF	10" Plain Joint, Extra Strength, Vitrified Clay Pipe	45.75	
		For 3' Lengths, Add	6.62	
		For 2' Lengths, Add	8.82	
		For Standard Strength, Deduct	-2.21	
		For >1,000, Deduct	-2.29	
33 42 11 00-0412	LF	12" Plain Joint, Extra Strength, Vitrified Clay Pipe	56.99	
		For 3' Lengths, Add	9.34	
		For 2' Lengths, Add	12.46	
		For Standard Strength, Deduct	-3.11	
		For >1,000, Deduct	-2.85	
33 42 11 00-0413	LF	15" Plain Joint, Extra Strength, Vitrified Clay Pipe	87.14	
		For 3' Lengths, Add	17.52	
		For 2' Lengths, Add	23.36	
		For Standard Strength, Deduct	-5.84	
		For >1,000, Deduct	-4.36	
33 42 11 00-0414	LF	18" Plain Joint, Extra Strength, Vitrified Clay Pipe	119.56	
		For 3' Lengths, Add	25.11	
		For 2' Lengths, Add	33.48	
		For Standard Strength, Deduct	-8.37	
		For >1,000, Deduct	-5.98	
33 42 11 00-0415	LF	21" Plain Joint, Extra Strength, Vitrified Clay Pipe	179.32	
		For 3' Lengths, Add	40.23	
		For 2' Lengths, Add	53.64	
		For Standard Strength, Deduct	-13.41	
		For >1,000, Deduct	-8.97	
33 42 11 00-0416	LF	24" Plain Joint, Extra Strength, Vitrified Clay Pipe	230.10	
		For 3' Lengths, Add	52.55	
		For 2' Lengths, Add	70.07	
		For Standard Strength, Deduct	-17.52	
		For >1,000, Deduct	-11.51	
33 42 11 00-0417	LF	30" Plain Joint, Extra Strength, Vitrified Clay Pipe	285.12	
		For 3' Lengths, Add	65.53	
		For 2' Lengths, Add	87.38	
		For Standard Strength, Deduct	-21.84	
		For >1,000, Deduct	-14.26	
33 42 11 00-0418	LF	36" Plain Joint, Extra Strength, Vitrified Clay Pipe	344.82	
		For 3' Lengths, Add	79.16	
		For 2' Lengths, Add	105.54	
		For Standard Strength, Deduct	-26.39	
		For >1,000, Deduct	-17.24	
33 42 11 00-0419		Compression Joint, Extra Strength, Vitrified Clay Piping <small>(33 42 11 00-0406)</small>		
		Note: ASTM C425.		



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0420 LF 4" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	25.78	
For 3' Lengths, Add	2.30	
For 2' Lengths, Add	3.06	
For Standard Strength, Deduct	-0.77	
For >1,000, Deduct	-1.29	
33 42 11 00-0421 LF 6" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	32.89	
For 3' Lengths, Add	3.75	
For 2' Lengths, Add	5.00	
For Standard Strength, Deduct	-1.25	
For >1,000, Deduct	-1.64	
33 42 11 00-0422 LF 8" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	40.30	
For 3' Lengths, Add	5.30	
For 2' Lengths, Add	7.06	
For Standard Strength, Deduct	-1.77	
For >1,000, Deduct	-2.02	
33 42 11 00-0423 LF 10" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	52.67	
For 3' Lengths, Add	8.69	
For 2' Lengths, Add	11.59	
For Standard Strength, Deduct	-2.90	
For >1,000, Deduct	-2.63	
33 42 11 00-0424 LF 12" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	63.91	
For 3' Lengths, Add	11.42	
For 2' Lengths, Add	15.22	
For Standard Strength, Deduct	-3.81	
For >1,000, Deduct	-3.20	
33 42 11 00-0425 LF 15" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	98.17	
For 3' Lengths, Add	20.83	
For 2' Lengths, Add	27.77	
For Standard Strength, Deduct	-6.94	
For >1,000, Deduct	-4.91	
33 42 11 00-0426 LF 18" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	137.51	
For 3' Lengths, Add	30.50	
For 2' Lengths, Add	40.66	
For Standard Strength, Deduct	-10.17	
For >1,000, Deduct	-6.88	
33 42 11 00-0427 LF 21" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	199.87	
For 3' Lengths, Add	46.39	
For 2' Lengths, Add	61.86	
For Standard Strength, Deduct	-15.46	
For >1,000, Deduct	-9.99	
33 42 11 00-0428 LF 24" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	262.54	
For 3' Lengths, Add	62.29	
For 2' Lengths, Add	83.05	
For Standard Strength, Deduct	-20.76	
For >1,000, Deduct	-13.13	
33 42 11 00-0429 LF 30" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	427.86	
For 3' Lengths, Add	108.35	
For 2' Lengths, Add	144.47	
For Standard Strength, Deduct	-36.12	
For >1,000, Deduct	-21.39	
33 42 11 00-0430 LF 36" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	613.00	
For 3' Lengths, Add	159.61	
For 2' Lengths, Add	212.81	
For Standard Strength, Deduct	-53.20	
For >1,000, Deduct	-30.65	
33 42 11 00-0431 Extra Strength, Vitrified Clay Pipe Fittings (33 42 11 00-0405)		
33 42 11 00-0432 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0431)		
33 42 11 00-0433 Plain End 1/8 Bend, Extra Strength, Vitrified Clay (33 42 11 00-0432)		
33 42 11 00-0434 EA 4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	82.19	
33 42 11 00-0435 EA 6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	112.83	
33 42 11 00-0436 EA 8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	165.21	
33 42 11 00-0437 EA 10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	232.39	
33 42 11 00-0438 EA 12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	310.76	
33 42 11 00-0439 EA 15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	769.72	
33 42 11 00-0440 EA 18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,089.57	
33 42 11 00-0441 EA 21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,708.96	
33 42 11 00-0442 EA 24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,970.11	
33 42 11 00-0443 EA 30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,283.84	
33 42 11 00-0444 EA 36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	3,448.43	
33 42 11 00-0445 Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0432)		
33 42 11 00-0446 EA 4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	92.03	
33 42 11 00-0447 EA 6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	134.16	
33 42 11 00-0448 EA 8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	185.11	
33 42 11 00-0449 EA 10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	253.72	
33 42 11 00-0450 EA 12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	325.33	
33 42 11 00-0451 EA 15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	861.59	
33 42 11 00-0452 EA 18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,259.43	
33 42 11 00-0453 EA 21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,286.41	
33 42 11 00-0454 EA 24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,526.67	

33	Utilities
33 40	Stormwater Utilities
33 42	Stormwater Conveyance



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 11 00-0455	EA	30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	2,806.61
33 42 11 00-0456	EA	36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	4,193.53
33 42 11 00-0457		1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0431)	
33 42 11 00-0458		Plain End 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0457)	
33 42 11 00-0459	EA	4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	94.15
33 42 11 00-0460	EA	6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	127.23
33 42 11 00-0461	EA	8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	182.05
33 42 11 00-0462	EA	10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	250.73
33 42 11 00-0463	EA	12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	331.43
33 42 11 00-0464	EA	15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	792.72
33 42 11 00-0465	EA	18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	1,118.25
33 42 11 00-0466	EA	21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	1,745.14
33 42 11 00-0467	EA	24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	2,014.05
33 42 11 00-0468	EA	30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	2,338.62
33 42 11 00-0469	EA	36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	3,509.33
33 42 11 00-0470		Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0457)	
33 42 11 00-0471	EA	4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	106.39
33 42 11 00-0472	EA	6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	151.44
33 42 11 00-0473	EA	8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	205.33
33 42 11 00-0474	EA	10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	275.74
33 42 11 00-0475	EA	12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	350.14
33 42 11 00-0476	EA	15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	889.20
33 42 11 00-0477	EA	18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	1,293.85
33 42 11 00-0478	EA	21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,542.17
33 42 11 00-0479	EA	24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,579.39
33 42 11 00-0480	EA	30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,872.35
33 42 11 00-0481	EA	36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	4,266.62
33 42 11 00-0482		Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0431)	
33 42 11 00-0483		Plain End Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0482)	
33 42 11 00-0484	EA	4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	100.96
33 42 11 00-0485	EA	6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	133.88
33 42 11 00-0486	EA	8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	186.63
33 42 11 00-0487	EA	10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	253.82
33 42 11 00-0488	EA	12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	325.17
33 42 11 00-0489	EA	15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	793.19
33 42 11 00-0490	EA	18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	1,115.92
33 42 11 00-0491	EA	21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	1,621.28
33 42 11 00-0492	EA	24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	2,267.02
33 42 11 00-0493	EA	30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	2,385.27
33 42 11 00-0494	EA	36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	3,460.85
33 42 11 00-0495		Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0482)	
33 42 11 00-0496	EA	4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	123.79
33 42 11 00-0497	EA	6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	173.87
33 42 11 00-0498	EA	8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	233.34
33 42 11 00-0499	EA	10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	309.49
33 42 11 00-0500	EA	12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	390.62
33 42 11 00-0501	EA	15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	965.48
33 42 11 00-0502	EA	18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,400.53
33 42 11 00-0503	EA	21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	2,092.29
33 42 11 00-0504	EA	24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	2,780.14
33 42 11 00-0505	EA	30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	3,207.82
33 42 11 00-0506	EA	36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee	4,588.10
33 42 11 00-0507		Vitrified Clay Couplings (33 42 11 00-0405)	
33 42 11 00-0508		Vitrified Clay To Cast Iron Or Plastic Pipe Couplings (33 42 11 00-0507)	
Note: Stainless steel tightening band at each end (Fernco #1002)			
33 42 11 00-0509	EA	4" x 3" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	31.13
33 42 11 00-0510	EA	4" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	30.81
33 42 11 00-0511	EA	5" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	42.92
33 42 11 00-0512	EA	5" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	40.38
33 42 11 00-0513	EA	6" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	52.71
33 42 11 00-0514	EA	6" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	54.91
33 42 11 00-0515	EA	6" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	50.04
33 42 11 00-0516	EA	8" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	73.06
33 42 11 00-0517	EA	8" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	67.49
33 42 11 00-0518	EA	10" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	95.95
33 42 11 00-0519	EA	10" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	87.34
33 42 11 00-0520	EA	12" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	119.51
33 42 11 00-0521	EA	12" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	99.74



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0522 EA 15" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	202.98	
33 42 11 00-0523 EA 15" x 15" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	155.87	
33 42 11 00-0524 Vitrified Clay To Vitrified Clay Pipe Non-Shear Couplings (33 42 11 00-0507)		
Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0525 EA 4" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	45.71	
33 42 11 00-0526 EA 6" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	60.13	
33 42 11 00-0527 EA 6" x 6" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	63.26	
33 42 11 00-0528 EA 8" x 8" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	66.32	
33 42 11 00-0529 EA 10" x 10" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	80.91	
33 42 11 00-0530 EA 12" x 12" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	93.29	
33 42 11 00-0531 Vitrified Clay To Plastic Pipe Non-Shear Couplings (33 42 11 00-0507)		
Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0532 EA 4" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling.....	46.76	
33 42 11 00-0533 EA 6" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling.....	61.18	
33 42 11 00-0534 EA 6" x 6" Vitrified Clay To Plastic Pipe Non-Shear Coupling.....	56.51	
33 42 11 00-0535 EA 8" x 8" Vitrified Clay To Plastic Pipe Non-Shear Coupling.....	72.60	
33 42 11 00-0536 EA 10" x 10" Vitrified Clay To Plastic Pipe Non-Shear Coupling.....	102.87	
33 42 11 00-0537 EA 12" x 12" Vitrified Clay To Plastic Pipe Non-Shear Coupling.....	115.84	
33 42 11 00-0538 Corrugated Metal Piping (33 42 11)		
33 42 11 00-0539 Galvanized Corrugated Steel Piping (33 42 11 00-0538)		
33 42 11 00-0540 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0539)		
33 42 11 00-0541 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0540)		
33 42 11 00-0542 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	28.20	8.18
For Bituminous Coated Pipe, Add		
	2.71	
For Bituminous Coated And 25% Paved, Add		
	5.54	
For Smooth-Flo, Add		
	9.90	
33 42 11 00-0543 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	31.70	8.57
For Bituminous Coated Pipe, Add		
	3.41	
For Bituminous Coated And 25% Paved, Add		
	6.98	
For Smooth-Flo, Add		
	12.46	
33 42 11 00-0544 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	35.33	9.35
For Bituminous Coated Pipe, Add		
	4.13	
For Bituminous Coated And 25% Paved, Add		
	8.45	
For Smooth-Flo, Add		
	15.10	
33 42 11 00-0545 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	40.11	10.13
For Bituminous Coated Pipe, Add		
	4.94	
For Bituminous Coated And 25% Paved, Add		
	10.11	
For Smooth-Flo, Add		
	18.06	
33 42 11 00-0546 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	44.36	10.90
For Bituminous Coated Pipe, Add		
	5.56	
For Bituminous Coated And 25% Paved, Add		
	11.38	
For Smooth-Flo, Add		
	20.32	
33 42 11 00-0547 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	58.60	14.02
For Bituminous Coated Pipe, Add		
	7.22	
For Bituminous Coated And 25% Paved, Add		
	14.77	
For Smooth-Flo, Add		
	26.37	
33 42 11 00-0548 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	76.20	18.19
For Bituminous Coated Pipe, Add		
	9.10	
For Bituminous Coated And 25% Paved, Add		
	18.62	
For Smooth-Flo, Add		
	33.26	
33 42 11 00-0549 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	86.62	21.50
For Bituminous Coated Pipe, Add		
	10.77	
For Bituminous Coated And 25% Paved, Add		
	22.04	
For Smooth-Flo, Add		
	39.36	
33 42 11 00-0550 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	97.35	24.81
For Bituminous Coated Pipe, Add		
	12.07	
For Bituminous Coated And 25% Paved, Add		
	24.68	
For Smooth-Flo, Add		
	44.08	
33 42 11 00-0551 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0540)		
33 42 11 00-0552 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	30.62	8.18
For Bituminous Coated Pipe, Add		
	2.75	
For Bituminous Coated And 25% Paved, Add		
	6.37	
For Smooth-Flo, Add		
	12.88	
33 42 11 00-0553 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	34.68	8.57
For Bituminous Coated Pipe, Add		
	3.45	
For Bituminous Coated And 25% Paved, Add		
	7.99	
For Smooth-Flo, Add		
	16.16	
33 42 11 00-0554 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	38.93	9.35
For Bituminous Coated Pipe, Add		
	4.18	
For Bituminous Coated And 25% Paved, Add		
	9.68	
For Smooth-Flo, Add		
	19.56	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0555	LF	21"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	44.27	10.13
			<i>For Bituminous Coated Pipe, Add</i>	4.97	
			<i>For Bituminous Coated And 25% Paved, Add</i>	11.51	
			<i>For Smooth-Flo, Add</i>	23.26	
33 42 11 00-0556	LF	24"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	49.20	10.90
			<i>For Bituminous Coated Pipe, Add</i>	5.62	
			<i>For Bituminous Coated And 25% Paved, Add</i>	13.02	
			<i>For Smooth-Flo, Add</i>	26.33	
33 42 11 00-0557	LF	30"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	64.51	14.02
			<i>For Bituminous Coated Pipe, Add</i>	7.22	
			<i>For Bituminous Coated And 25% Paved, Add</i>	16.73	
			<i>For Smooth-Flo, Add</i>	33.81	
33 42 11 00-0558	LF	36"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	83.38	18.19
			<i>For Bituminous Coated Pipe, Add</i>	9.05	
			<i>For Bituminous Coated And 25% Paved, Add</i>	20.97	
			<i>For Smooth-Flo, Add</i>	42.38	
33 42 11 00-0559	LF	42"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	94.83	21.50
			<i>For Bituminous Coated Pipe, Add</i>	10.65	
			<i>For Bituminous Coated And 25% Paved, Add</i>	24.68	
			<i>For Smooth-Flo, Add</i>	49.88	
33 42 11 00-0560	LF	48"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	106.75	24.81
			<i>For Bituminous Coated Pipe, Add</i>	11.97	
			<i>For Bituminous Coated And 25% Paved, Add</i>	27.73	
			<i>For Smooth-Flo, Add</i>	56.06	
33 42 11 00-0561	LF	54"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	127.35	28.12
			<i>For Bituminous Coated Pipe, Add</i>	14.72	
			<i>For Bituminous Coated And 25% Paved, Add</i>	34.11	
			<i>For Smooth-Flo, Add</i>	68.94	
33 42 11 00-0562			12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping⁽³³⁾		
			<small>42 11 00-0540</small>		
33 42 11 00-0563	LF	18"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	46.39	9.35
			<i>For Bituminous Coated Pipe, Add</i>	4.78	
			<i>For Bituminous Coated And 25% Paved, Add</i>	8.64	
			<i>For Smooth-Flo, Add</i>	16.60	
33 42 11 00-0564	LF	21"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	52.94	10.13
			<i>For Bituminous Coated Pipe, Add</i>	5.65	
			<i>For Bituminous Coated And 25% Paved, Add</i>	10.21	
			<i>For Smooth-Flo, Add</i>	19.62	
33 42 11 00-0565	LF	24"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	59.08	10.13
			<i>For Bituminous Coated Pipe, Add</i>	6.41	
			<i>For Bituminous Coated And 25% Paved, Add</i>	11.58	
			<i>For Smooth-Flo, Add</i>	22.25	
33 42 11 00-0566	LF	30"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	76.72	14.02
			<i>For Bituminous Coated Pipe, Add</i>	8.15	
			<i>For Bituminous Coated And 25% Paved, Add</i>	14.72	
			<i>For Smooth-Flo, Add</i>	28.29	
33 42 11 00-0567	LF	36"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	97.87	18.19
			<i>For Bituminous Coated Pipe, Add</i>	10.08	
			<i>For Bituminous Coated And 25% Paved, Add</i>	18.20	
			<i>For Smooth-Flo, Add</i>	34.98	
33 42 11 00-0568	LF	42"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	111.58	21.50
			<i>For Bituminous Coated Pipe, Add</i>	11.81	
			<i>For Bituminous Coated And 25% Paved, Add</i>	21.33	
			<i>For Smooth-Flo, Add</i>	40.99	
33 42 11 00-0569	LF	48"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	125.94	24.81
			<i>For Bituminous Coated Pipe, Add</i>	13.34	
			<i>For Bituminous Coated And 25% Paved, Add</i>	24.08	
			<i>For Smooth-Flo, Add</i>	46.29	
33 42 11 00-0570	LF	54"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	148.54	28.12
			<i>For Bituminous Coated Pipe, Add</i>	15.99	
			<i>For Bituminous Coated And 25% Paved, Add</i>	28.88	
			<i>For Smooth-Flo, Add</i>	55.50	
33 42 11 00-0571	LF	60"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	162.38	29.77
			<i>For Bituminous Coated Pipe, Add</i>	17.51	
			<i>For Bituminous Coated And 25% Paved, Add</i>	31.63	
			<i>For Smooth-Flo, Add</i>	60.78	
33 42 11 00-0572	LF	66"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	196.65	36.38
			<i>For Bituminous Coated Pipe, Add</i>	21.32	
			<i>For Bituminous Coated And 25% Paved, Add</i>	38.50	
			<i>For Smooth-Flo, Add</i>	74.00	
33 42 11 00-0573			10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping⁽³³⁾		
			<small>42 11 00-0540</small>		
33 42 11 00-0574	LF	36"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	111.43	18.19
			<i>For Bituminous Coated Pipe, Add</i>	12.82	
			<i>For Bituminous Coated And 25% Paved, Add</i>	21.42	
			<i>For Smooth-Flo, Add</i>	30.56	
33 42 11 00-0575	LF	42"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	127.45	21.50
			<i>For Bituminous Coated Pipe, Add</i>	15.02	
			<i>For Bituminous Coated And 25% Paved, Add</i>	25.09	
			<i>For Smooth-Flo, Add</i>	35.80	



	Utilities	33	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0576	LF		48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	143.95 16.98 28.36 40.46	24.81
33 42 11 00-0577	LF		54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	168.72 20.11 33.59 47.93	28.12
33 42 11 00-0578	LF		60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	184.84 22.08 36.89 52.64	29.77
33 42 11 00-0579	LF		66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	221.33 26.42 44.13 62.97	36.38
33 42 11 00-0580	LF		72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	266.39 28.36 47.38 67.61	52.91
33 42 11 00-0581			3" x 1" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0539)</small>		
33 42 11 00-0582			16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0581)</small>		
33 42 11 00-0583	LF		36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	88.64 10.01 22.73 45.25	18.19
33 42 11 00-0584	LF		42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	100.88 11.76 26.69 53.14	21.50
33 42 11 00-0585	LF		48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	113.42 13.19 29.93 59.60	24.81
33 42 11 00-0586	LF		54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	135.01 16.11 36.57 72.81	28.12
33 42 11 00-0587	LF		60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	147.10 17.55 39.83 79.32	29.77
33 42 11 00-0588	LF		66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	183.93 22.54 51.17 101.88	36.38
33 42 11 00-0589	LF		72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	225.36 24.03 54.54 108.60	52.91
33 42 11 00-0590	LF		78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	243.34 25.52 57.93 115.34	57.88
33 42 11 00-0591	LF		84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	259.06 27.01 61.31 122.08	62.01
33 42 11 00-0592	LF		90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	274.82 28.51 64.71 128.85	66.14
33 42 11 00-0593	LF		96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	291.13 29.99 68.08 135.56	70.28
33 42 11 00-0594	LF		102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	309.78 31.49 71.49 142.35	74.41
33 42 11 00-0595			14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0581)</small>		
33 42 11 00-0596	LF		54" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	147.70 18.65 36.55 73.84	28.12
33 42 11 00-0597	LF		60" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	161.14 20.36 39.90 80.61	29.77

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0598 LF 66" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	199.38	36.38
For Bituminous Coated Pipe, Add	25.63	
For Bituminous Coated And 25% Paved, Add	50.23	
For Smooth-Flo, Add	101.49	
33 42 11 00-0599 LF 72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	242.19	52.91
For Bituminous Coated Pipe, Add	27.39	
For Bituminous Coated And 25% Paved, Add	53.69	
For Smooth-Flo, Add	108.47	
33 42 11 00-0600 LF 78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	261.52	57.88
For Bituminous Coated Pipe, Add	29.15	
For Bituminous Coated And 25% Paved, Add	57.14	
For Smooth-Flo, Add	115.45	
33 42 11 00-0601 LF 84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	278.68	62.01
For Bituminous Coated Pipe, Add	30.93	
For Bituminous Coated And 25% Paved, Add	60.63	
For Smooth-Flo, Add	122.49	
33 42 11 00-0602 LF 90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	295.76	66.14
For Bituminous Coated Pipe, Add	32.69	
For Bituminous Coated And 25% Paved, Add	64.08	
For Smooth-Flo, Add	129.47	
33 42 11 00-0603 LF 96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	313.44	70.28
For Bituminous Coated Pipe, Add	34.45	
For Bituminous Coated And 25% Paved, Add	67.53	
For Smooth-Flo, Add	136.44	
33 42 11 00-0604 LF 102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	333.45	74.41
For Bituminous Coated Pipe, Add	36.23	
For Bituminous Coated And 25% Paved, Add	71.01	
For Smooth-Flo, Add	143.46	
33 42 11 00-0605 LF 108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	355.37	82.68
For Bituminous Coated Pipe, Add	38.00	
For Bituminous Coated And 25% Paved, Add	74.48	
For Smooth-Flo, Add	150.48	
33 42 11 00-0606 LF 114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	376.78	90.95
For Bituminous Coated Pipe, Add	39.74	
For Bituminous Coated And 25% Paved, Add	77.89	
For Smooth-Flo, Add	157.37	
33 42 11 00-0607 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0581)		
33 42 11 00-0608 LF 60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	192.29	29.77
For Bituminous Coated Pipe, Add	26.59	
For Bituminous Coated And 25% Paved, Add	50.65	
For Smooth-Flo, Add	82.55	
33 42 11 00-0609 LF 66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	233.88	36.38
For Bituminous Coated Pipe, Add	32.53	
For Bituminous Coated And 25% Paved, Add	61.97	
For Smooth-Flo, Add	101.01	
33 42 11 00-0610 LF 72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	279.70	52.91
For Bituminous Coated Pipe, Add	34.89	
For Bituminous Coated And 25% Paved, Add	66.47	
For Smooth-Flo, Add	108.35	
33 42 11 00-0611 LF 78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	302.06	57.88
For Bituminous Coated Pipe, Add	37.26	
For Bituminous Coated And 25% Paved, Add	70.98	
For Smooth-Flo, Add	115.70	
33 42 11 00-0612 LF 84" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	322.24	62.01
For Bituminous Coated Pipe, Add	39.64	
For Bituminous Coated And 25% Paved, Add	75.52	
For Smooth-Flo, Add	123.09	
33 42 11 00-0613 LF 90" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	342.36	66.14
For Bituminous Coated Pipe, Add	42.01	
For Bituminous Coated And 25% Paved, Add	80.04	
For Smooth-Flo, Add	130.45	
33 42 11 00-0614 LF 96" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	363.11	70.28
For Bituminous Coated Pipe, Add	44.39	
For Bituminous Coated And 25% Paved, Add	84.56	
For Smooth-Flo, Add	137.82	
33 42 11 00-0615 LF 102" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	386.15	74.41
For Bituminous Coated Pipe, Add	46.77	
For Bituminous Coated And 25% Paved, Add	89.09	
For Smooth-Flo, Add	145.21	
33 42 11 00-0616 LF 108" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	411.06	82.68
For Bituminous Coated Pipe, Add	49.14	
For Bituminous Coated And 25% Paved, Add	93.61	
For Smooth-Flo, Add	152.57	
33 42 11 00-0617 LF 114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	435.53	90.95
For Bituminous Coated Pipe, Add	51.49	
For Bituminous Coated And 25% Paved, Add	98.09	
For Smooth-Flo, Add	159.88	
33 42 11 00-0618 LF 120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	459.12	99.22
For Bituminous Coated Pipe, Add	53.87	
For Bituminous Coated And 25% Paved, Add	102.63	
For Smooth-Flo, Add	167.27	



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0619 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0581)</small>		
33 42 11 00-0620 LF 72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	314.68	52.91
For Bituminous Coated Pipe, Add	41.89	
For Bituminous Coated And 25% Paved, Add	79.59	
For Smooth-Flo, Add	106.40	
33 42 11 00-0621 LF 78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	339.91	57.88
For Bituminous Coated Pipe, Add	44.83	
For Bituminous Coated And 25% Paved, Add	85.18	
For Smooth-Flo, Add	113.87	
33 42 11 00-0622 LF 84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	362.96	62.01
For Bituminous Coated Pipe, Add	47.79	
For Bituminous Coated And 25% Paved, Add	90.80	
For Smooth-Flo, Add	121.38	
33 42 11 00-0623 LF 90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	385.94	66.14
For Bituminous Coated Pipe, Add	50.73	
For Bituminous Coated And 25% Paved, Add	96.39	
For Smooth-Flo, Add	128.85	
33 42 11 00-0624 LF 96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	409.57	70.28
For Bituminous Coated Pipe, Add	53.68	
For Bituminous Coated And 25% Paved, Add	101.99	
For Smooth-Flo, Add	136.35	
33 42 11 00-0625 LF 102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	435.48	74.41
For Bituminous Coated Pipe, Add	56.63	
For Bituminous Coated And 25% Paved, Add	107.60	
For Smooth-Flo, Add	143.85	
33 42 11 00-0626 LF 108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	463.26	82.68
For Bituminous Coated Pipe, Add	59.58	
For Bituminous Coated And 25% Paved, Add	113.20	
For Smooth-Flo, Add	151.33	
33 42 11 00-0627 LF 114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	490.57	90.95
For Bituminous Coated Pipe, Add	62.50	
For Bituminous Coated And 25% Paved, Add	118.75	
For Smooth-Flo, Add	158.74	
33 42 11 00-0628 LF 120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	517.06	99.22
For Bituminous Coated Pipe, Add	65.46	
For Bituminous Coated And 25% Paved, Add	124.37	
For Smooth-Flo, Add	166.27	
33 42 11 00-0629 LF 126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	545.04	107.48
For Bituminous Coated Pipe, Add	68.39	
For Bituminous Coated And 25% Paved, Add	129.94	
For Smooth-Flo, Add	173.72	
33 42 11 00-0630 LF 132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	575.13	115.75
For Bituminous Coated Pipe, Add	71.35	
For Bituminous Coated And 25% Paved, Add	135.56	
For Smooth-Flo, Add	181.22	
33 42 11 00-0631 LF 138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	607.76	124.02
For Bituminous Coated Pipe, Add	74.31	
For Bituminous Coated And 25% Paved, Add	141.18	
For Smooth-Flo, Add	188.74	
33 42 11 00-0632 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0539)</small>		
33 42 11 00-0633 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0632)</small>		
33 42 11 00-0634 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	113.79	24.81
For Bituminous Coated Pipe, Add	16.58	
For Bituminous Coated And 25% Paved, Add	37.79	
For Smooth-Flo, Add	60.00	
33 42 11 00-0635 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	135.71	28.12
For Bituminous Coated Pipe, Add	20.31	
For Bituminous Coated And 25% Paved, Add	46.31	
For Smooth-Flo, Add	73.52	
33 42 11 00-0636 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	147.72	29.77
For Bituminous Coated Pipe, Add	22.09	
For Bituminous Coated And 25% Paved, Add	50.37	
For Smooth-Flo, Add	79.97	
33 42 11 00-0637 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	182.47	36.38
For Bituminous Coated Pipe, Add	27.81	
For Bituminous Coated And 25% Paved, Add	63.41	
For Smooth-Flo, Add	100.67	
33 42 11 00-0638 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	223.73	52.91
For Bituminous Coated Pipe, Add	29.63	
For Bituminous Coated And 25% Paved, Add	67.55	
For Smooth-Flo, Add	107.24	
33 42 11 00-0639 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	241.48	57.88
For Bituminous Coated Pipe, Add	31.43	
For Bituminous Coated And 25% Paved, Add	71.67	
For Smooth-Flo, Add	113.79	
33 42 11 00-0640 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	256.95	62.01
For Bituminous Coated Pipe, Add	33.23	
For Bituminous Coated And 25% Paved, Add	75.77	
For Smooth-Flo, Add	120.30	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0641 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	272.40	66.14
For Bituminous Coated Pipe, Add	35.03	
For Bituminous Coated And 25% Paved, Add	79.86	
For Smooth-Flo, Add	126.80	
33 42 11 00-0642 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	288.57	70.28
For Bituminous Coated Pipe, Add	36.85	
For Bituminous Coated And 25% Paved, Add	84.02	
For Smooth-Flo, Add	133.40	
33 42 11 00-0643 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	307.16	74.41
For Bituminous Coated Pipe, Add	38.71	
For Bituminous Coated And 25% Paved, Add	88.26	
For Smooth-Flo, Add	140.14	
33 42 11 00-0644 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel		
Piping (33 42 11 00-0632)		
33 42 11 00-0645 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	151.58	28.12
For Bituminous Coated Pipe, Add	19.42	
For Bituminous Coated And 25% Paved, Add	45.64	
For Smooth-Flo, Add	82.64	
33 42 11 00-0646 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	165.36	29.77
For Bituminous Coated Pipe, Add	21.20	
For Bituminous Coated And 25% Paved, Add	49.82	
For Smooth-Flo, Add	90.21	
33 42 11 00-0647 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	201.72	36.38
For Bituminous Coated Pipe, Add	26.10	
For Bituminous Coated And 25% Paved, Add	61.33	
For Smooth-Flo, Add	111.05	
33 42 11 00-0648 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	244.52	52.91
For Bituminous Coated Pipe, Add	27.86	
For Bituminous Coated And 25% Paved, Add	65.47	
For Smooth-Flo, Add	118.54	
33 42 11 00-0649 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	264.16	57.88
For Bituminous Coated Pipe, Add	29.68	
For Bituminous Coated And 25% Paved, Add	69.75	
For Smooth-Flo, Add	126.30	
33 42 11 00-0650 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	281.41	62.01
For Bituminous Coated Pipe, Add	31.48	
For Bituminous Coated And 25% Paved, Add	73.97	
For Smooth-Flo, Add	133.94	
33 42 11 00-0651 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	297.73	66.14
For Bituminous Coated Pipe, Add	33.09	
For Bituminous Coated And 25% Paved, Add	77.76	
For Smooth-Flo, Add	140.79	
33 42 11 00-0652 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	316.45	70.28
For Bituminous Coated Pipe, Add	35.06	
For Bituminous Coated And 25% Paved, Add	82.38	
For Smooth-Flo, Add	149.16	
33 42 11 00-0653 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	336.54	74.41
For Bituminous Coated Pipe, Add	36.85	
For Bituminous Coated And 25% Paved, Add	86.59	
For Smooth-Flo, Add	156.78	
33 42 11 00-0654 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	358.47	82.68
For Bituminous Coated Pipe, Add	38.62	
For Bituminous Coated And 25% Paved, Add	90.76	
For Smooth-Flo, Add	164.33	
33 42 11 00-0655 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	380.27	90.95
For Bituminous Coated Pipe, Add	40.44	
For Bituminous Coated And 25% Paved, Add	95.03	
For Smooth-Flo, Add	172.06	
33 42 11 00-0656 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel		
Piping (33 42 11 00-0632)		
33 42 11 00-0657 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	198.40	29.77
For Bituminous Coated Pipe, Add	27.81	
For Bituminous Coated And 25% Paved, Add	52.84	
For Smooth-Flo, Add	95.38	
33 42 11 00-0658 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	238.10	36.38
For Bituminous Coated Pipe, Add	33.37	
For Bituminous Coated And 25% Paved, Add	63.41	
For Smooth-Flo, Add	114.47	
33 42 11 00-0659 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	284.37	52.91
For Bituminous Coated Pipe, Add	35.83	
For Bituminous Coated And 25% Paved, Add	68.07	
For Smooth-Flo, Add	122.89	
33 42 11 00-0660 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	307.07	57.88
For Bituminous Coated Pipe, Add	38.26	
For Bituminous Coated And 25% Paved, Add	72.70	
For Smooth-Flo, Add	131.25	
33 42 11 00-0661 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	327.42	62.01
For Bituminous Coated Pipe, Add	40.68	
For Bituminous Coated And 25% Paved, Add	77.29	
For Smooth-Flo, Add	139.53	



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0662	LF		90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	347.93 43.13 81.94 147.93	66.14
33 42 11 00-0663	LF		96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	368.96 45.56 86.56 156.26	70.28
33 42 11 00-0664	LF		102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	392.23 47.98 91.17 164.59	74.41
33 42 11 00-0665	LF		108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	417.53 50.43 95.82 172.98	82.68
33 42 11 00-0666	LF		114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	442.40 52.86 100.44 181.32	90.95
33 42 11 00-0667	LF		120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	466.24 55.30 105.06 189.67	99.22
33 42 11 00-0668			10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0632)</small>		
33 42 11 00-0669	LF		72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	322.53 43.46 82.57 129.73	52.91
33 42 11 00-0670	LF		78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	348.78 46.61 88.55 139.12	57.88
33 42 11 00-0671	LF		84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	372.44 49.68 94.40 148.31	62.01
33 42 11 00-0672	LF		90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	395.96 52.73 100.19 157.41	66.14
33 42 11 00-0673	LF		96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	420.26 55.82 106.05 166.62	70.28
33 42 11 00-0674	LF		102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	446.68 58.87 111.86 175.74	74.41
33 42 11 00-0675	LF		108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	475.14 61.95 117.71 184.93	82.68
33 42 11 00-0676	LF		114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	503.21 65.03 123.55 194.10	90.95
33 42 11 00-0677	LF		120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	530.17 68.08 129.36 203.22	99.22
33 42 11 00-0678	LF		126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	563.67 72.12 137.02 215.27	107.48
33 42 11 00-0679	LF		132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	595.62 75.44 143.34 225.20	115.75
33 42 11 00-0680	LF		138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	630.72 78.90 149.91 235.51	124.02
33 42 11 00-0681			Helical Ribbed, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0539)</small>		
33 42 11 00-0682			16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0681)</small>		
33 42 11 00-0683	LF		18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	40.17 5.11	9.35
33 42 11 00-0684	LF		21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	45.79 6.08	10.13

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0685 LF 24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	51.03	10.90
For Bituminous Coated Pipe, Add	6.91	
33 42 11 00-0686 LF 30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	66.98	14.02
For Bituminous Coated Pipe, Add	8.90	
33 42 11 00-0687 LF 36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	86.47	18.19
For Bituminous Coated Pipe, Add	11.16	
33 42 11 00-0688 LF 42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	98.58	21.50
For Bituminous Coated Pipe, Add	13.16	
33 42 11 00-0689 LF 48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	111.06	24.81
For Bituminous Coated Pipe, Add	14.81	
33 42 11 00-0690 LF 54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	132.33	28.12
For Bituminous Coated Pipe, Add	18.14	
33 42 11 00-0691 LF 60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	144.37	29.77
For Bituminous Coated Pipe, Add	19.81	
33 42 11 00-0692 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0681)		
33 42 11 00-0693 LF 18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	43.83	9.35
For Bituminous Coated Pipe, Add	5.91	
33 42 11 00-0694 LF 21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	50.07	10.13
For Bituminous Coated Pipe, Add	7.02	
33 42 11 00-0695 LF 24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	55.90	10.90
For Bituminous Coated Pipe, Add	7.98	
33 42 11 00-0696 LF 30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	73.03	14.02
For Bituminous Coated Pipe, Add	10.22	
33 42 11 00-0697 LF 36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	93.76	18.19
For Bituminous Coated Pipe, Add	12.75	
33 42 11 00-0698 LF 42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	107.10	21.50
For Bituminous Coated Pipe, Add	15.02	
33 42 11 00-0699 LF 48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	120.79	24.81
For Bituminous Coated Pipe, Add	16.93	
33 42 11 00-0700 LF 54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	143.28	28.12
For Bituminous Coated Pipe, Add	20.52	
33 42 11 00-0701 LF 60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	156.56	29.77
For Bituminous Coated Pipe, Add	22.45	
33 42 11 00-0702 LF 66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	191.98	36.38
For Bituminous Coated Pipe, Add	27.89	
33 42 11 00-0703 LF 72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	234.25	52.91
For Bituminous Coated Pipe, Add	29.80	
33 42 11 00-0704 LF 78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	253.19	57.88
For Bituminous Coated Pipe, Add	31.75	
33 42 11 00-0705 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0681)		
33 42 11 00-0706 LF 30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	85.30	14.02
For Bituminous Coated Pipe, Add	10.68	
33 42 11 00-0707 LF 36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	108.42	18.19
For Bituminous Coated Pipe, Add	13.20	
33 42 11 00-0708 LF 42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	124.27	21.50
For Bituminous Coated Pipe, Add	15.53	
33 42 11 00-0709 LF 48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	140.38	24.81
For Bituminous Coated Pipe, Add	17.56	
33 42 11 00-0710 LF 54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	165.34	28.12
For Bituminous Coated Pipe, Add	20.95	
33 42 11 00-0711 LF 60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	181.09	29.77
For Bituminous Coated Pipe, Add	23.01	
33 42 11 00-0712 LF 66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	218.91	36.38
For Bituminous Coated Pipe, Add	27.91	
33 42 11 00-0713 LF 72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	263.60	52.91
For Bituminous Coated Pipe, Add	29.93	
33 42 11 00-0714 LF 78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	284.96	57.88
For Bituminous Coated Pipe, Add	31.98	
33 42 11 00-0715 LF 84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	304.00	62.01
For Bituminous Coated Pipe, Add	34.02	
33 42 11 00-0716 LF 90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	323.02	66.14
For Bituminous Coated Pipe, Add	36.05	
33 42 11 00-0717 LF 96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	342.65	70.28
For Bituminous Coated Pipe, Add	38.08	
33 42 11 00-0718 LF 102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	363.36	74.41
For Bituminous Coated Pipe, Add	39.89	
33 42 11 00-0719 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0539)		
33 42 11 00-0720 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0719)		
33 42 11 00-0721 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	14.68	4.67
For Bituminous Coated Pipe, Add	1.31	
33 42 11 00-0722 LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	15.77	4.67
For Bituminous Coated Pipe, Add	1.57	
33 42 11 00-0723 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	18.38	5.84
For Bituminous Coated Pipe, Add	1.73	
33 42 11 00-0724 LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	19.76	5.84
For Bituminous Coated Pipe, Add	2.07	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 42 11 00-0725	LF		10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	23.24 2.17	7.02
	33 42 11 00-0726	LF		10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	24.99 2.60	7.02
33 42 11 00-0727				Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping⁽³³⁾ <small>^{42 11 00-0719)}</small>		
	33 42 11 00-0728	LF		6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	14.83 1.29	4.67
	33 42 11 00-0729	LF		6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	15.88 1.53	4.67
	33 42 11 00-0730	LF		8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	18.53 1.69	5.84
	33 42 11 00-0731	LF		8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	20.00 2.04	5.84
	33 42 11 00-0732	LF		10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	23.50 2.14	7.02
	33 42 11 00-0733	LF		10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	25.30 2.57	7.02
33 42 11 00-0734				1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings^(33 42 11 00-0719)		
	33 42 11 00-0735	EA		6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	8.06 1.81	
	33 42 11 00-0736	EA		8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	10.67 2.40	
	33 42 11 00-0737	EA		10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	13.09 2.95	
	33 42 11 00-0738	EA		6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	29.07 4.01	
	33 42 11 00-0739	EA		6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	6.95 0.92	
	33 42 11 00-0740	EA		8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	8.72 1.37	
33 42 11 00-0741				2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping^(33 42 11 00-0539)		
33 42 11 00-0742				16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping^(33 42 11 00-0741)		
	33 42 11 00-0743	LF		12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	44.20	8.18
	33 42 11 00-0744	LF		15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	51.87	8.57
	33 42 11 00-0745	LF		18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	59.78	9.35
	33 42 11 00-0746	LF		21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	69.33	10.13
	33 42 11 00-0747	LF		24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	77.29	10.90
	33 42 11 00-0748	LF		30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	101.25	14.02
	33 42 11 00-0749	LF		36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	130.07	18.19
	33 42 11 00-0750	LF		42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	150.33	21.50
	33 42 11 00-0751	LF		48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	168.74	24.81
33 42 11 00-0752				14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping^(33 42 11 00-0741)		
	33 42 11 00-0753	LF		12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	50.09	8.18
	33 42 11 00-0754	LF		15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	59.16	8.57
	33 42 11 00-0755	LF		18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	68.52	9.35
	33 42 11 00-0756	LF		21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	79.45	10.13
	33 42 11 00-0757	LF		24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	89.04	10.90
	33 42 11 00-0758	LF		30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	115.68	14.02
	33 42 11 00-0759	LF		36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	147.48	18.19
	33 42 11 00-0760	LF		42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	170.31	21.50
	33 42 11 00-0761	LF		48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	191.54	24.81
	33 42 11 00-0762	LF		54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	231.65	28.12
33 42 11 00-0763				12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping^(33 42 11 00-0741)		
	33 42 11 00-0764	LF		18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	86.73	9.35
	33 42 11 00-0765	LF		21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	100.71	10.13
	33 42 11 00-0766	LF		24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	113.21	10.90
	33 42 11 00-0767	LF		30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	145.88	14.02
	33 42 11 00-0768	LF		36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	176.32	18.19
	33 42 11 00-0769	LF		42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	212.56	21.50
	33 42 11 00-0770	LF		48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	239.75	24.81
	33 42 11 00-0771	LF		54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	286.66	28.12
	33 42 11 00-0772	LF		60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	313.23	29.77
	33 42 11 00-0773	LF		66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	383.49	36.38
33 42 11 00-0774				10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping^(33 42 11 00-0741)		
	33 42 11 00-0775	LF		36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	216.82	18.19

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0776 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	251.04	21.50
33 42 11 00-0777 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	283.47	24.81
33 42 11 00-0778 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	335.63	28.12
33 42 11 00-0779 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	367.74	29.77
33 42 11 00-0780 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	443.36	36.38
33 42 11 00-0781 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	504.20	52.91
33 42 11 00-0782 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0539)		
33 42 11 00-0783 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0782)		
33 42 11 00-0784 LF 36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	163.50	18.19
33 42 11 00-0785 LF 42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	188.88	21.50
33 42 11 00-0786 LF 48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	211.96	24.81
33 42 11 00-0787 LF 54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	256.23	28.12
33 42 11 00-0788 LF 60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	279.00	29.77
33 42 11 00-0789 LF 66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	354.83	36.38
33 42 11 00-0790 LF 72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	407.29	52.91
33 42 11 00-0791 LF 78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	436.26	57.88
33 42 11 00-0792 LF 84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	465.05	62.01
33 42 11 00-0793 LF 90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	489.86	66.14
33 42 11 00-0794 LF 96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	517.19	70.28
33 42 11 00-0795 LF 102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	546.94	74.41
33 42 11 00-0796 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0782)		
33 42 11 00-0797 LF 54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	287.71	28.12
33 42 11 00-0798 LF 60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	313.80	29.77
33 42 11 00-0799 LF 66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	393.16	36.38
33 42 11 00-0800 LF 72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	448.98	52.91
33 42 11 00-0801 LF 78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	481.36	57.88
33 42 11 00-0802 LF 84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	511.67	62.01
33 42 11 00-0803 LF 90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	541.79	66.14
33 42 11 00-0804 LF 96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	572.50	70.28
33 42 11 00-0805 LF 102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	605.68	74.41
33 42 11 00-0806 LF 108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	640.70	82.68
33 42 11 00-0807 LF 114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	674.96	90.95
33 42 11 00-0808 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0782)		
33 42 11 00-0809 LF 60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	392.97	29.77
33 42 11 00-0810 LF 66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	481.23	36.38
33 42 11 00-0811 LF 72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	544.69	52.91
33 42 11 00-0812 LF 78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	584.74	57.88
33 42 11 00-0813 LF 84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	622.69	62.01
33 42 11 00-0814 LF 90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	660.49	66.14
33 42 11 00-0815 LF 96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	698.94	70.28
33 42 11 00-0816 LF 102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	739.75	74.41
33 42 11 00-0817 LF 108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	782.34	82.68
33 42 11 00-0818 LF 114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	824.39	90.95
33 42 11 00-0819 LF 120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	865.75	99.22
33 42 11 00-0820 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0782)		
33 42 11 00-0821 LF 72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	631.90	52.91
33 42 11 00-0822 LF 78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	679.05	57.88
33 42 11 00-0823 LF 84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	724.17	62.01
33 42 11 00-0824 LF 90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	769.10	66.14
33 42 11 00-0825 LF 96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	814.73	70.28
33 42 11 00-0826 LF 102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	862.69	74.41
33 42 11 00-0827 LF 108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	912.45	82.68
33 42 11 00-0828 LF 114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	961.62	90.95
33 42 11 00-0829 LF 120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,010.13	99.22
33 42 11 00-0830 LF 126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,060.02	107.48
33 42 11 00-0831 LF 132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,112.17	115.75
33 42 11 00-0832 LF 138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,166.86	124.02
33 42 11 00-0833 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0539)		
33 42 11 00-0834 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0833)		
33 42 11 00-0835 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	205.17	24.81
33 42 11 00-0836 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	248.76	28.12
33 42 11 00-0837 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	270.44	29.77
33 42 11 00-0838 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	338.93	36.38
33 42 11 00-0839 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	390.08	52.91
33 42 11 00-0840 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	417.70	57.88
33 42 11 00-0841 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	442.95	62.01
33 42 11 00-0842 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	468.14	66.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0843 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	494.19	70.28
33 42 11 00-0844 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	522.99	74.41
33 42 11 00-0845 14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0833)</small>		
33 42 11 00-0846 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	286.15	28.12
33 42 11 00-0847 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	312.09	29.77
33 42 11 00-0848 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	384.35	36.38
33 42 11 00-0849 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	439.17	52.91
33 42 11 00-0850 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	471.21	57.88
33 42 11 00-0851 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	500.63	62.01
33 42 11 00-0852 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	527.91	66.14
33 42 11 00-0853 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	560.02	70.28
33 42 11 00-0854 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	592.31	74.41
33 42 11 00-0855 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	626.27	82.68
33 42 11 00-0856 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	660.43	90.95
33 42 11 00-0857 12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0833)</small>		
33 42 11 00-0858 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	395.56	29.77
33 42 11 00-0859 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	476.70	36.38
33 42 11 00-0860 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	540.24	52.91
33 42 11 00-0861 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	579.96	57.88
33 42 11 00-0862 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	617.21	62.01
33 42 11 00-0863 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	654.90	66.14
33 42 11 00-0864 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	692.99	70.28
33 42 11 00-0865 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	733.21	74.41
33 42 11 00-0866 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	775.69	82.68
33 42 11 00-0867 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	817.60	90.95
33 42 11 00-0868 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	858.46	99.22
33 42 11 00-0869 10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0833)</small>		
33 42 11 00-0870 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	631.86	52.91
33 42 11 00-0871 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	680.10	57.88
33 42 11 00-0872 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	725.37	62.01
33 42 11 00-0873 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	770.28	66.14
33 42 11 00-0874 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	816.12	70.28
33 42 11 00-0875 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	864.01	74.41
33 42 11 00-0876 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	913.98	82.68
33 42 11 00-0877 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	963.58	90.95
33 42 11 00-0878 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,011.99	99.22
33 42 11 00-0879 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,073.74	107.48
33 42 11 00-0880 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,129.02	115.75
33 42 11 00-0881 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,188.32	124.02
33 42 11 00-0882 Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0536)</small>		
33 42 11 00-0883 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0882)</small>		
33 42 11 00-0884 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0883)</small>		
33 42 11 00-0885 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	32.51	8.57
<i>For Bituminous Coated Pipe, Add</i>	3.71	
<i>For Bituminous Coated And 25% Paved, Add</i>	8.98	
<i>For Smooth-Flo, Add</i>	14.81	
33 42 11 00-0886 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	36.06	9.35
<i>For Bituminous Coated Pipe, Add</i>	4.43	
<i>For Bituminous Coated And 25% Paved, Add</i>	10.72	
<i>For Smooth-Flo, Add</i>	17.69	
33 42 11 00-0887 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	41.12	10.13
<i>For Bituminous Coated Pipe, Add</i>	5.34	
<i>For Bituminous Coated And 25% Paved, Add</i>	12.91	
<i>For Smooth-Flo, Add</i>	21.29	
33 42 11 00-0888 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	46.08	10.90
<i>For Bituminous Coated Pipe, Add</i>	6.15	
<i>For Bituminous Coated And 25% Paved, Add</i>	14.88	
<i>For Smooth-Flo, Add</i>	24.54	
33 42 11 00-0889 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	60.15	14.02
<i>For Bituminous Coated Pipe, Add</i>	7.81	
<i>For Bituminous Coated And 25% Paved, Add</i>	18.89	
<i>For Smooth-Flo, Add</i>	31.16	
33 42 11 00-0890 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	79.05	18.19
<i>For Bituminous Coated Pipe, Add</i>	10.08	
<i>For Bituminous Coated And 25% Paved, Add</i>	24.36	
<i>For Smooth-Flo, Add</i>	40.19	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0891 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0893)</small>		
33 42 11 00-0892 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	35.53	8.57
For Bituminous Coated Pipe, Add	3.85	
For Bituminous Coated And 25% Paved, Add	9.02	
For Smooth-Flo, Add	14.79	
33 42 11 00-0893 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	39.75	9.35
For Bituminous Coated Pipe, Add	4.62	
For Bituminous Coated And 25% Paved, Add	10.81	
For Smooth-Flo, Add	17.74	
33 42 11 00-0894 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	45.23	10.13
For Bituminous Coated Pipe, Add	5.49	
For Bituminous Coated And 25% Paved, Add	12.85	
For Smooth-Flo, Add	21.08	
33 42 11 00-0895 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	50.83	10.90
For Bituminous Coated Pipe, Add	6.33	
For Bituminous Coated And 25% Paved, Add	14.82	
For Smooth-Flo, Add	24.30	
33 42 11 00-0896 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	66.08	14.02
For Bituminous Coated Pipe, Add	8.02	
For Bituminous Coated And 25% Paved, Add	18.77	
For Smooth-Flo, Add	30.78	
33 42 11 00-0897 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	86.11	18.19
For Bituminous Coated Pipe, Add	10.22	
For Bituminous Coated And 25% Paved, Add	23.91	
For Smooth-Flo, Add	39.21	
33 42 11 00-0898 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	98.72	21.50
For Bituminous Coated Pipe, Add	12.17	
For Bituminous Coated And 25% Paved, Add	28.48	
For Smooth-Flo, Add	46.71	
33 42 11 00-0899 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0893)</small>		
33 42 11 00-0900 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	51.48	9.92
For Bituminous Coated Pipe, Add	5.00	
For Bituminous Coated And 25% Paved, Add	11.13	
For Smooth-Flo, Add	17.11	
33 42 11 00-0901 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	58.64	10.75
For Bituminous Coated Pipe, Add	5.93	
For Bituminous Coated And 25% Paved, Add	13.19	
For Smooth-Flo, Add	20.29	
33 42 11 00-0902 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	65.77	11.58
For Bituminous Coated Pipe, Add	6.80	
For Bituminous Coated And 25% Paved, Add	15.13	
For Smooth-Flo, Add	23.27	
33 42 11 00-0903 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	85.11	14.88
For Bituminous Coated Pipe, Add	8.56	
For Bituminous Coated And 25% Paved, Add	19.06	
For Smooth-Flo, Add	29.30	
33 42 11 00-0904 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	100.52	18.19
For Bituminous Coated Pipe, Add	10.72	
For Bituminous Coated And 25% Paved, Add	23.85	
For Smooth-Flo, Add	36.67	
33 42 11 00-0905 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	115.35	21.50
For Bituminous Coated Pipe, Add	12.67	
For Bituminous Coated And 25% Paved, Add	28.20	
For Smooth-Flo, Add	43.36	
33 42 11 00-0906 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	134.36	24.81
For Bituminous Coated Pipe, Add	15.03	
For Bituminous Coated And 25% Paved, Add	33.44	
For Smooth-Flo, Add	51.43	
33 42 11 00-0907 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	150.40	28.12
For Bituminous Coated Pipe, Add	16.60	
For Bituminous Coated And 25% Paved, Add	36.93	
For Smooth-Flo, Add	56.79	
33 42 11 00-0908 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0893)</small>		
33 42 11 00-0909 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	114.08	18.19
For Bituminous Coated Pipe, Add	12.91	
For Bituminous Coated And 25% Paved, Add	27.18	
For Smooth-Flo, Add	34.28	
33 42 11 00-0910 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	131.16	21.50
For Bituminous Coated Pipe, Add	15.23	
For Bituminous Coated And 25% Paved, Add	32.06	
For Smooth-Flo, Add	40.43	
33 42 11 00-0911 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	152.28	24.81
For Bituminous Coated Pipe, Add	17.92	
For Bituminous Coated And 25% Paved, Add	37.72	
For Smooth-Flo, Add	47.57	



	Utilities	33	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0912	LF		64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	170.66 19.87 41.83 52.75	28.12
33 42 11 00-0913	LF		71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	186.92 21.81 45.92 57.91	29.77
33 42 11 00-0914			3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0914)</small>		
33 42 11 00-0915			14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0914)</small>		
33 42 11 00-0916	LF		60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	150.20 19.15 58.20 65.10	28.12
33 42 11 00-0917	LF		66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	164.13 20.95 63.70 71.24	29.77
33 42 11 00-0918	LF		73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	202.81 26.32 80.00 89.47	36.38
33 42 11 00-0919	LF		81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	246.30 28.21 85.77 95.93	52.91
33 42 11 00-0920	LF		87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	266.78 30.21 91.83 102.70	57.88
33 42 11 00-0921	LF		95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	285.07 32.21 97.92 109.51	62.01
33 42 11 00-0922	LF		103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	303.30 34.20 103.97 116.29	66.14
33 42 11 00-0923	LF		112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	322.11 36.19 110.01 123.04	70.28
33 42 11 00-0924			12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0914)</small>		
33 42 11 00-0925	LF		66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	195.30 27.19 71.23 84.28	29.77
33 42 11 00-0926	LF		73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	237.40 33.23 87.07 103.03	36.38
33 42 11 00-0927	LF		81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	283.95 35.74 93.65 110.81	52.91
33 42 11 00-0928	LF		87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	307.47 38.34 100.46 118.87	57.88
33 42 11 00-0929	LF		95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	328.79 40.95 107.30 126.96	62.01
33 42 11 00-0930	LF		103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	350.09 43.56 114.13 135.04	66.14
33 42 11 00-0931	LF		112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	371.95 46.16 120.93 143.08	70.28
33 42 11 00-0932	LF		117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	396.20 48.78 127.80 151.21	74.41
33 42 11 00-0933	LF		128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	422.29 51.38 134.63 159.29	82.68

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0934 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	449.32	90.95
For Bituminous Coated Pipe, Add	54.25	
For Bituminous Coated And 25% Paved, Add	142.13	
For Smooth-Flo, Add	168.17	
33 42 11 00-0935 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0914)</small>		
33 42 11 00-0936 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	318.93	52.91
For Bituminous Coated Pipe, Add	42.74	
For Bituminous Coated And 25% Paved, Add	101.72	
For Smooth-Flo, Add	110.48	
33 42 11 00-0937 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	345.34	57.88
For Bituminous Coated Pipe, Add	45.92	
For Bituminous Coated And 25% Paved, Add	109.28	
For Smooth-Flo, Add	118.70	
33 42 11 00-0938 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	369.54	62.01
For Bituminous Coated Pipe, Add	49.10	
For Bituminous Coated And 25% Paved, Add	116.87	
For Smooth-Flo, Add	126.93	
33 42 11 00-0939 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	393.65	66.14
For Bituminous Coated Pipe, Add	52.27	
For Bituminous Coated And 25% Paved, Add	124.41	
For Smooth-Flo, Add	135.12	
33 42 11 00-0940 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	418.41	70.28
For Bituminous Coated Pipe, Add	55.45	
For Bituminous Coated And 25% Paved, Add	131.97	
For Smooth-Flo, Add	143.33	
33 42 11 00-0941 LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	445.50	74.41
For Bituminous Coated Pipe, Add	58.64	
For Bituminous Coated And 25% Paved, Add	139.56	
For Smooth-Flo, Add	151.58	
33 42 11 00-0942 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	474.46	82.68
For Bituminous Coated Pipe, Add	61.82	
For Bituminous Coated And 25% Paved, Add	147.13	
For Smooth-Flo, Add	159.80	
33 42 11 00-0943 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	504.14	90.95
For Bituminous Coated Pipe, Add	65.21	
For Bituminous Coated And 25% Paved, Add	155.20	
For Smooth-Flo, Add	168.57	
33 42 11 00-0944 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	536.19	99.22
For Bituminous Coated Pipe, Add	69.29	
For Bituminous Coated And 25% Paved, Add	164.90	
For Smooth-Flo, Add	179.10	
33 42 11 00-0945 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0882)</small>		
33 42 11 00-0946 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0945)</small>		
33 42 11 00-0947 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	287.38	52.91
For Bituminous Coated Pipe, Add	36.43	
For Bituminous Coated And 25% Paved, Add	88.89	
For Smooth-Flo, Add	113.12	
33 42 11 00-0948 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	310.56	57.88
For Bituminous Coated Pipe, Add	38.96	
For Bituminous Coated And 25% Paved, Add	95.07	
For Smooth-Flo, Add	120.98	
33 42 11 00-0949 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	331.36	62.01
For Bituminous Coated Pipe, Add	41.47	
For Bituminous Coated And 25% Paved, Add	101.18	
For Smooth-Flo, Add	128.76	
33 42 11 00-0950 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	352.15	66.14
For Bituminous Coated Pipe, Add	43.97	
For Bituminous Coated And 25% Paved, Add	107.29	
For Smooth-Flo, Add	136.53	
33 42 11 00-0951 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	373.63	70.28
For Bituminous Coated Pipe, Add	46.49	
For Bituminous Coated And 25% Paved, Add	113.44	
For Smooth-Flo, Add	144.36	
33 42 11 00-0952 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	397.61	74.41
For Bituminous Coated Pipe, Add	49.06	
For Bituminous Coated And 25% Paved, Add	119.71	
For Smooth-Flo, Add	152.33	
33 42 11 00-0953 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	423.41	82.68
For Bituminous Coated Pipe, Add	51.61	
For Bituminous Coated And 25% Paved, Add	125.92	
For Smooth-Flo, Add	160.24	
33 42 11 00-0954 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	452.11	90.95
For Bituminous Coated Pipe, Add	54.81	
For Bituminous Coated And 25% Paved, Add	133.73	
For Smooth-Flo, Add	170.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0955 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0945)</small>		
33 42 11 00-0956 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	326.10	52.91
For Bituminous Coated Pipe, Add	44.17	
For Bituminous Coated And 25% Paved, Add	99.83	
For Smooth-Flo, Add	108.45	
33 42 11 00-0957 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	352.38	57.88
For Bituminous Coated Pipe, Add	47.33	
For Bituminous Coated And 25% Paved, Add	106.96	
For Smooth-Flo, Add	116.19	
33 42 11 00-0958 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	376.32	62.01
For Bituminous Coated Pipe, Add	50.46	
For Bituminous Coated And 25% Paved, Add	114.04	
For Smooth-Flo, Add	123.88	
33 42 11 00-0959 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	400.35	66.14
For Bituminous Coated Pipe, Add	53.61	
For Bituminous Coated And 25% Paved, Add	121.16	
For Smooth-Flo, Add	131.62	
33 42 11 00-0960 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	424.46	70.28
For Bituminous Coated Pipe, Add	56.66	
For Bituminous Coated And 25% Paved, Add	128.05	
For Smooth-Flo, Add	139.10	
33 42 11 00-0961 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	452.00	74.41
For Bituminous Coated Pipe, Add	59.94	
For Bituminous Coated And 25% Paved, Add	135.46	
For Smooth-Flo, Add	147.15	
33 42 11 00-0962 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	481.02	82.68
For Bituminous Coated Pipe, Add	63.13	
For Bituminous Coated And 25% Paved, Add	142.67	
For Smooth-Flo, Add	154.98	
33 42 11 00-0963 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	512.89	90.95
For Bituminous Coated Pipe, Add	66.96	
For Bituminous Coated And 25% Paved, Add	151.33	
For Smooth-Flo, Add	164.39	
33 42 11 00-0964 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	542.66	99.22
For Bituminous Coated Pipe, Add	70.58	
For Bituminous Coated And 25% Paved, Add	159.51	
For Smooth-Flo, Add	173.27	
33 42 11 00-0965 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0882)</small>		
33 42 11 00-0966 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0965)</small>		
33 42 11 00-0967 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	51.92	8.57
33 42 11 00-0968 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	59.25	9.35
33 42 11 00-0969 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	69.10	10.13
33 42 11 00-0970 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	78.37	10.90
33 42 11 00-0971 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	101.28	14.02
33 42 11 00-0972 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	132.48	18.19
33 42 11 00-0973 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0965)</small>		
33 42 11 00-0974 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	58.84	8.57
33 42 11 00-0975 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	67.71	9.35
33 42 11 00-0976 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	78.55	10.13
33 42 11 00-0977 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	89.35	10.90
33 42 11 00-0978 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	114.93	14.02
33 42 11 00-0979 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	148.71	18.19
33 42 11 00-0980 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	173.45	21.50
33 42 11 00-0981 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0965)</small>		
33 42 11 00-0982 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	88.45	9.35
33 42 11 00-0983 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	103.12	10.13
33 42 11 00-0984 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	117.17	10.90
33 42 11 00-0985 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	149.65	14.02
33 42 11 00-0986 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	190.65	18.19
33 42 11 00-0987 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	222.29	21.50
33 42 11 00-0988 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	262.05	24.81
33 42 11 00-0989 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	291.03	28.12
33 42 11 00-0990 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0965)</small>		
33 42 11 00-0991 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	223.55	18.19
33 42 11 00-0992 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	260.68	21.50
33 42 11 00-0993 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	305.56	24.81
33 42 11 00-0994 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	340.22	28.12
33 42 11 00-0995 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	372.69	29.77

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0996			3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0882)</small>		
33 42 11 00-0997			14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0996)</small>		
33 42 11 00-0998	LF		60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	293.89	28.12
33 42 11 00-0999	LF		66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	321.07	29.77
33 42 11 00-1000	LF		73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	401.59	36.38
33 42 11 00-1001	LF		81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	459.11	52.91
33 42 11 00-1002	LF		87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	494.36	57.88
33 42 11 00-1003	LF		95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	527.46	62.01
33 42 11 00-1004	LF		103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	560.43	66.14
33 42 11 00-1005	LF		112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	594.06	70.28
33 42 11 00-1006			12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0996)</small>		
33 42 11 00-1007	LF		66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	400.39	29.77
33 42 11 00-1008	LF		73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	489.89	36.38
33 42 11 00-1009	LF		81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	555.21	52.91
33 42 11 00-1010	LF		87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	598.12	57.88
33 42 11 00-1011	LF		95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	638.92	62.01
33 42 11 00-1012	LF		103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	679.67	66.14
33 42 11 00-1013	LF		112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	720.93	70.28
33 42 11 00-1014	LF		117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	764.72	74.41
33 42 11 00-1015	LF		128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	810.26	82.68
33 42 11 00-1016	LF		137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	858.69	90.95
33 42 11 00-1017			10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0996)</small>		
33 42 11 00-1018	LF		81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	642.39	52.91
33 42 11 00-1019	LF		87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	692.51	57.88
33 42 11 00-1020	LF		95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	740.52	62.01
33 42 11 00-1021	LF		103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	788.27	66.14
33 42 11 00-1022	LF		112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	836.71	70.28
33 42 11 00-1023	LF		117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	887.63	74.41
33 42 11 00-1024	LF		128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	940.35	82.68
33 42 11 00-1025	LF		137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	995.32	90.95
33 42 11 00-1026	LF		142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	1,057.77	99.22
33 42 11 00-1027			125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0882)</small>		
33 42 11 00-1028			12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-1027)</small>		
33 42 11 00-1029	LF		81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	547.37	52.91
33 42 11 00-1030	LF		87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	588.32	57.88
33 42 11 00-1031	LF		95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	626.68	62.01
33 42 11 00-1032	LF		103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	664.98	66.14
33 42 11 00-1033	LF		112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	704.13	70.28
33 42 11 00-1034	LF		117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	746.09	74.41
33 42 11 00-1035	LF		128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	789.74	82.68
33 42 11 00-1036	LF		137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	840.82	90.95
33 42 11 00-1037			10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-1027)</small>		
33 42 11 00-1038	LF		81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	640.36	52.91
33 42 11 00-1039	LF		87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	688.69	57.88
33 42 11 00-1040	LF		95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	734.59	62.01
33 42 11 00-1041	LF		103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	780.70	66.14
33 42 11 00-1042	LF		112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	826.19	70.28
33 42 11 00-1043	LF		117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	876.67	74.41
33 42 11 00-1044	LF		128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	928.06	82.68
33 42 11 00-1045	LF		137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	986.88	90.95
33 42 11 00-1046	LF		142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	1,041.87	99.22
33 42 11 00-1047			Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0538)</small>		
33 42 11 00-1048			2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1047)</small>		
33 42 11 00-1049			16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1048)</small>		
33 42 11 00-1050	LF		12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	30.68	8.18
			For 1/2 Bituminous Coated And 25% Paved, Add	5.53	
33 42 11 00-1051	LF		15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	34.82	8.57
			For 1/2 Bituminous Coated And 25% Paved, Add	6.96	
33 42 11 00-1052	LF		18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	39.13	9.35
			For 1/2 Bituminous Coated And 25% Paved, Add	8.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1053 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	44.64 10.08	10.13
33 42 11 00-1054 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	49.48 11.36	10.90
33 42 11 00-1055 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	65.24 14.73	14.02
33 42 11 00-1056 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	84.59 18.59	18.19
33 42 11 00-1057 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	96.52 21.99	21.50
33 42 11 00-1058 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	108.47 24.64	24.81
33 42 11 00-1059 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1048)</small>		
33 42 11 00-1060 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	33.66 5.25	8.18
33 42 11 00-1061 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	38.51 6.59	8.57
33 42 11 00-1062 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	43.52 7.96	9.35
33 42 11 00-1063 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	49.73 9.47	10.13
33 42 11 00-1064 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	55.39 10.72	10.90
33 42 11 00-1065 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	72.47 13.77	14.02
33 42 11 00-1066 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	93.34 17.25	18.19
33 42 11 00-1067 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	106.60 20.32	21.50
33 42 11 00-1068 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	119.95 22.82	24.81
33 42 11 00-1069 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	143.56 28.06	28.12
33 42 11 00-1070 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1048)</small>		
33 42 11 00-1071 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	52.75 7.42	9.35
33 42 11 00-1072 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	60.51 8.78	10.13
33 42 11 00-1073 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	67.63 9.95	10.90
33 42 11 00-1074 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	87.75 12.68	14.02
33 42 11 00-1075 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	111.77 15.74	18.19
33 42 11 00-1076 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	127.96 18.46	21.50
33 42 11 00-1077 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	144.32 20.82	24.81
33 42 11 00-1078 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	171.39 25.14	28.12
33 42 11 00-1079 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	187.20 27.49	29.77
33 42 11 00-1080 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	228.45 33.80	36.38
33 42 11 00-1081 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1048)</small>		
33 42 11 00-1082 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	128.35 17.24	18.19
33 42 11 00-1083 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	147.34 20.21	21.50
33 42 11 00-1084 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	166.33 22.82	24.81
33 42 11 00-1085 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	196.07 27.19	28.12
33 42 11 00-1086 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	214.66 29.82	29.77
33 42 11 00-1087 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	258.61 35.98	36.38
33 42 11 00-1088 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	306.12 38.57	52.91
33 42 11 00-1089 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1047)</small>		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 42 11 00-1090 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping

(33 42 11 00-1089)

33 42 11 00-1091	LF 36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	97.62	18.19
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	20.66	
33 42 11 00-1092	LF 42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	111.44	21.50
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	24.27	
33 42 11 00-1093	LF 48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	125.24	24.81
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	27.21	
33 42 11 00-1094	LF 54" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	149.44	28.12
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	33.24	
33 42 11 00-1095	LF 60" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	162.83	29.77
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	36.21	
33 42 11 00-1096	LF 66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	204.14	36.38
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	46.52	
33 42 11 00-1097	LF 72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	246.89	52.91
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	49.58	
33 42 11 00-1098	LF 78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	266.19	57.88
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	52.65	
33 42 11 00-1099	LF 84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	283.26	62.01
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	55.73	
33 42 11 00-1100	LF 90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	300.34	66.14
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	58.82	
33 42 11 00-1101	LF 96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	318.00	70.28
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	61.89	
33 42 11 00-1102	LF 102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	338.01	74.41
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	65.00	

33 42 11 00-1103 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping

(33 42 11 00-1089)

33 42 11 00-1104	LF 54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	164.41	28.12
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	28.80	
33 42 11 00-1105	LF 60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	179.38	29.77
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	31.45	
33 42 11 00-1106	LF 66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	222.34	36.38
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	39.59	
33 42 11 00-1107	LF 72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	266.73	52.91
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	42.31	
33 42 11 00-1108	LF 78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	287.63	57.88
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	45.03	
33 42 11 00-1109	LF 84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	306.40	62.01
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	47.78	
33 42 11 00-1110	LF 90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	325.05	66.14
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	50.50	
33 42 11 00-1111	LF 96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	344.31	70.28
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	53.22	
33 42 11 00-1112	LF 102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	365.92	74.41
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	55.97	
33 42 11 00-1113	LF 108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	389.42	82.68
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	58.70	
33 42 11 00-1114	LF 114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	412.40	90.95
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	61.39	

33 42 11 00-1115 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping

(33 42 11 00-1089)

33 42 11 00-1116	LF 60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	216.16	29.77
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	42.18	
33 42 11 00-1117	LF 66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	263.06	36.38
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	51.60	
33 42 11 00-1118	LF 72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	310.99	52.91
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	55.35	
33 42 11 00-1119	LF 78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	335.50	57.88
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	59.11	
33 42 11 00-1120	LF 84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	357.81	62.01
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	62.89	
33 42 11 00-1121	LF 90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	380.06	66.14
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	66.65	
33 42 11 00-1122	LF 96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	402.90	70.28
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	70.41	
33 42 11 00-1123	LF 102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	428.08	74.41
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	74.18	
33 42 11 00-1124	LF 108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	455.13	82.68
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	77.95	
33 42 11 00-1125	LF 114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	481.71	90.95
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	81.68	
33 42 11 00-1126	LF 120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	507.43	99.22
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	85.45	

33 42 11 00-1127 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping

(33 42 11 00-1089)

33 42 11 00-1128	LF 72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	352.27	52.91
	<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	67.94	



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1129	LF		78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	380.10 72.70	57.88
33 42 11 00-1130	LF		84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	405.81 77.49	62.01
33 42 11 00-1131	LF		90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	431.42 82.26	66.14
33 42 11 00-1132	LF		96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	457.69 87.04	70.28
33 42 11 00-1133	LF		102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	486.28 91.84	74.41
33 42 11 00-1134	LF		108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	516.67 96.61	82.68
33 42 11 00-1135	LF		114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	546.63 101.35	90.95
33 42 11 00-1136	LF		120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	575.76 106.15	99.22
33 42 11 00-1137	LF		126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	606.38 110.91	107.48
33 42 11 00-1138	LF		132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	639.12 115.70	115.75
33 42 11 00-1139	LF		138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	674.40 120.50	124.02
33 42 11 00-1140			125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
			<small>(33 42 11 00-1047)</small>		
33 42 11 00-1141			16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
			<small>(33 42 11 00-1140)</small>		
33 42 11 00-1142	LF		48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	125.72 33.72	24.81
33 42 11 00-1143	LF		54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	150.31 41.31	28.12
33 42 11 00-1144	LF		60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	163.59 44.92	29.77
33 42 11 00-1145	LF		66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	202.45 56.56	36.38
33 42 11 00-1146	LF		72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	245.00 60.24	52.91
33 42 11 00-1147	LF		78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	264.08 63.93	57.88
33 42 11 00-1148	LF		84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	280.84 67.59	62.01
33 42 11 00-1149	LF		90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	297.56 71.23	66.14
33 42 11 00-1150	LF		96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	315.05 74.94	70.28
33 42 11 00-1151	LF		102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	334.99 78.74	74.41
33 42 11 00-1152			14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
			<small>(33 42 11 00-1140)</small>		
33 42 11 00-1153	LF		54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	169.03 38.95	28.12
33 42 11 00-1154	LF		60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	184.44 42.53	29.77
33 42 11 00-1155	LF		66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	225.16 52.34	36.38
33 42 11 00-1156	LF		72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	269.57 55.88	52.91
33 42 11 00-1157	LF		78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	290.84 59.53	57.88
33 42 11 00-1158	LF		84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	309.69 63.13	62.01
33 42 11 00-1159	LF		90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	327.47 66.36	66.14
33 42 11 00-1160	LF		96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	347.94 70.30	70.28
33 42 11 00-1161	LF		102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	369.66 73.90	74.41
33 42 11 00-1162	LF		108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	393.19 77.46	82.68
33 42 11 00-1163	LF		114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	416.62 81.10	90.95
33 42 11 00-1164			12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
			<small>(33 42 11 00-1140)</small>		
33 42 11 00-1165	LF		60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	223.42 46.92	29.77
33 42 11 00-1166	LF		66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	268.13 56.31	36.38

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1167 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	316.62	52.91
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	60.46	
33 42 11 00-1168 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	341.49	57.88
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	64.56	
33 42 11 00-1169 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	364.03	62.01
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	68.64	
33 42 11 00-1170 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	386.76	66.14
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	72.78	
33 42 11 00-1171 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	409.96	70.28
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	76.87	
33 42 11 00-1172 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	435.43	74.41
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	80.97	
33 42 11 00-1173 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	462.92	82.68
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	85.10	
33 42 11 00-1174 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	489.98	90.95
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	89.20	
33 42 11 00-1175 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	516.02	99.22
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	93.31	
33 42 11 00-1176 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1140)		
33 42 11 00-1177 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	361.67	52.91
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	73.34	
33 42 11 00-1178 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	390.73	57.88
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	78.64	
33 42 11 00-1179 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	417.18	62.01
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	83.84	
33 42 11 00-1180 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	443.46	66.14
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	88.99	
33 42 11 00-1181 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	470.49	70.28
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	94.19	
33 42 11 00-1182 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	499.70	74.41
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	99.35	
33 42 11 00-1183 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	530.91	82.68
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	104.54	
33 42 11 00-1184 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	561.74	90.95
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	109.73	
33 42 11 00-1185 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	591.46	99.22
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	114.89	
33 42 11 00-1186 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	628.61	107.48
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	121.70	
33 42 11 00-1187 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	663.55	115.75
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	127.31	
33 42 11 00-1188 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	701.75	124.02
<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	133.14	
33 42 11 00-1189 Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1047)		
33 42 11 00-1190 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1189)		
33 42 11 00-1191 LF 18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	44.17	9.35
33 42 11 00-1192 LF 21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	50.47	10.13
33 42 11 00-1193 LF 24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	56.38	10.90
33 42 11 00-1194 LF 30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	73.65	14.02
33 42 11 00-1195 LF 36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	94.47	18.19
33 42 11 00-1196 LF 42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	107.92	21.50
33 42 11 00-1197 LF 48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	121.72	24.81
33 42 11 00-1198 LF 54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	144.35	28.12
33 42 11 00-1199 LF 60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	157.71	29.77
33 42 11 00-1200 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1189)		
33 42 11 00-1201 LF 18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	48.50	9.35
33 42 11 00-1202 LF 21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	55.53	10.13
33 42 11 00-1203 LF 24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	62.12	10.90
33 42 11 00-1204 LF 30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	80.83	14.02
33 42 11 00-1205 LF 36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	103.10	18.19
33 42 11 00-1206 LF 42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	118.02	21.50
33 42 11 00-1207 LF 48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	133.26	24.81
33 42 11 00-1208 LF 54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	157.32	28.12
33 42 11 00-1209 LF 60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	172.17	29.77
33 42 11 00-1210 LF 66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	209.31	36.38
33 42 11 00-1211 LF 72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	253.13	52.91
33 42 11 00-1212 LF 78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	273.62	57.88
33 42 11 00-1213 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1189)		
33 42 11 00-1214 LF 30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	95.38	14.02
33 42 11 00-1215 LF 36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	120.52	18.19
33 42 11 00-1216 LF 42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	138.42	21.50



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
			33 42 11 00-1217 LF 48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	156.53	24.81
			33 42 11 00-1218 LF 54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	183.49	28.12
			33 42 11 00-1219 LF 60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	201.30	29.77
			33 42 11 00-1220 LF 66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	241.28	36.38
			33 42 11 00-1221 LF 72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	287.97	52.91
			33 42 11 00-1222 LF 78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	311.35	57.88
			33 42 11 00-1223 LF 84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	332.40	62.01
			33 42 11 00-1224 LF 90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	353.47	66.14
			33 42 11 00-1225 LF 96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	375.07	70.28
			33 42 11 00-1226 LF 102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	397.58	74.41
			33 42 11 00-1227 Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-0538)</small>		
			33 42 11 00-1228 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1227)</small>		
			33 42 11 00-1229 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1228)</small>		
			33 42 11 00-1230 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	35.83	8.57
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	8.99	
			33 42 11 00-1231 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	40.03	9.35
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	10.74	
			33 42 11 00-1232 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	45.88	10.13
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	12.92	
			33 42 11 00-1233 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	51.56	10.90
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	14.88	
			33 42 11 00-1234 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	67.12	14.02
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	18.91	
			33 42 11 00-1235 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	88.05	18.19
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	24.39	
			33 42 11 00-1236 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1228)</small>		
			33 42 11 00-1237 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	39.52	8.57
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	9.32	
			33 42 11 00-1238 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	44.50	9.35
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	11.16	
			33 42 11 00-1239 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	50.92	10.13
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	13.28	
			33 42 11 00-1240 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	57.39	10.90
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	15.31	
			33 42 11 00-1241 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	74.38	14.02
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	19.38	
			33 42 11 00-1242 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	96.69	18.19
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	24.70	
			33 42 11 00-1243 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	111.32	21.50
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	29.42	
			33 42 11 00-1244 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1228)</small>		
			33 42 11 00-1245 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	53.62	9.35
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	10.22	
			33 42 11 00-1246 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	61.72	10.13
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	12.15	
			33 42 11 00-1247 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	69.63	10.90
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	13.95	
			33 42 11 00-1248 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	89.67	14.02
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	17.60	
			33 42 11 00-1249 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	115.15	18.19
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	22.13	
			33 42 11 00-1250 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	132.85	21.50
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	26.23	
			33 42 11 00-1251 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	155.55	24.81
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	31.23	
			33 42 11 00-1252 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	173.59	28.12
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	34.43	
			33 42 11 00-1253 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1228)</small>		
			33 42 11 00-1254 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	131.72	18.19
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	23.29	
			33 42 11 00-1255 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	152.18	21.50
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	27.52	
			33 42 11 00-1256 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	177.47	24.81
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	32.50	
			33 42 11 00-1257 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	198.38	28.12
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	35.98	
			33 42 11 00-1258 LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	217.17	29.77
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	39.45	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 11 00-1259	3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1227)		
33 42 11 00-1260	14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1259)		
33 42 11 00-1261	LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	167.37	28.12
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	51.71	
33 42 11 00-1262	LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	182.89	29.77
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	56.58	
33 42 11 00-1263	LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	226.39	36.38
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	71.06	
33 42 11 00-1264	LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	271.57	52.91
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	76.18	
33 42 11 00-1265	LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	293.85	57.88
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	81.57	
33 42 11 00-1266	LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	313.91	62.01
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	86.97	
33 42 11 00-1267	LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	333.91	66.14
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	92.34	
33 42 11 00-1268	LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	354.56	70.28
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	97.73	
33 42 11 00-1269	12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1259)		
33 42 11 00-1270	LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	219.70	29.77
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	64.30	
33 42 11 00-1271	LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	267.20	36.38
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	78.58	
33 42 11 00-1272	LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	316.00	52.91
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	84.52	
33 42 11 00-1273	LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	341.83	57.88
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	90.66	
33 42 11 00-1274	LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	365.52	62.01
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	96.84	
33 42 11 00-1275	LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	389.15	66.14
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	103.00	
33 42 11 00-1276	LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	413.34	70.28
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	109.14	
33 42 11 00-1277	LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	439.93	74.41
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	115.34	
33 42 11 00-1278	LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	468.35	82.68
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	121.49	
33 42 11 00-1279	LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	497.98	90.95
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	128.28	
33 42 11 00-1280	10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1259)		
33 42 11 00-1281	LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	357.25	52.91
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	91.48	
33 42 11 00-1282	LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	386.51	57.88
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	98.29	
33 42 11 00-1283	LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	413.58	62.01
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	105.11	
33 42 11 00-1284	LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	440.54	66.14
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	111.89	
33 42 11 00-1285	LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	470.41	70.28
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	119.51	
33 42 11 00-1286	LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	498.09	74.41
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	125.52	
33 42 11 00-1287	LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	529.92	82.68
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	132.33	
33 42 11 00-1288	LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	562.61	90.95
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	139.58	
33 42 11 00-1289	LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	598.32	99.22
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	148.31	
33 42 11 00-1290	125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1227)		
33 42 11 00-1291	12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1290)		
33 42 11 00-1292	LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	320.16	52.91
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	83.18	
33 42 11 00-1293	LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	345.63	57.88
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	88.96	
33 42 11 00-1294	LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	368.70	62.01
	<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	94.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1295 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	391.74 100.41	66.14
33 42 11 00-1296 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	415.48 106.16	70.28
33 42 11 00-1297 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	441.76 112.02	74.41
33 42 11 00-1298 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	469.87 117.84	82.68
33 42 11 00-1299 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	501.44 125.14	90.95
33 42 11 00-1300 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1290)</small>		
33 42 11 00-1301 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	365.86 92.26	52.91
33 42 11 00-1302 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	394.98 98.85	57.88
33 42 11 00-1303 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	421.74 105.39	62.01
33 42 11 00-1304 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	448.61 111.98	66.14
33 42 11 00-1305 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	475.47 118.34	70.28
33 42 11 00-1306 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	505.95 125.19	74.41
33 42 11 00-1307 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	537.86 131.86	82.68
33 42 11 00-1308 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	573.17 139.86	90.95
33 42 11 00-1309 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	606.20 147.42	99.22
33 42 11 00-1310 Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-0538)</small>		
33 42 11 00-1311 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1310)</small>		
33 42 11 00-1312 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1311)</small>		
33 42 11 00-1313 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	18.25 1.71	4.67
33 42 11 00-1314 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	23.42 2.32	5.84
33 42 11 00-1315 LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	30.31 3.06	7.02
33 42 11 00-1316 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1311)</small>		
33 42 11 00-1317 LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	20.21 1.69	4.67
33 42 11 00-1318 LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	26.20 2.32	5.84
33 42 11 00-1319 LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	34.01 3.06	7.02
33 42 11 00-1320 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1310)</small>		
33 42 11 00-1321 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1320)</small>		
33 42 11 00-1322 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	35.18 3.36	8.18
33 42 11 00-1323 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	40.42 4.22	8.57
33 42 11 00-1324 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	45.98 5.13	9.35
33 42 11 00-1325 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	52.78 6.12	10.13
33 42 11 00-1326 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	58.90 6.94	10.90
33 42 11 00-1327 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1320)</small>		
33 42 11 00-1328 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	39.39 3.29	8.18
33 42 11 00-1329 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	45.78 4.14	8.57

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1330 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	52.40	9.35
For Bituminous Coated Pipe, Add	5.02	
33 42 11 00-1331 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	60.23	10.13
For Bituminous Coated Pipe, Add	5.96	
33 42 11 00-1332 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	67.45	10.90
For Bituminous Coated Pipe, Add	6.77	
33 42 11 00-1333 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	87.83	14.02
For Bituminous Coated Pipe, Add	8.68	
33 42 11 00-1334 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	112.01	18.19
For Bituminous Coated Pipe, Add	10.79	
33 42 11 00-1335 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1320)</small>		
33 42 11 00-1336 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	83.79	10.90
For Bituminous Coated Pipe, Add	6.43	
33 42 11 00-1337 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	108.17	14.02
For Bituminous Coated Pipe, Add	8.18	
33 42 11 00-1338 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	136.44	18.19
For Bituminous Coated Pipe, Add	10.08	
33 42 11 00-1339 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	157.19	21.50
For Bituminous Coated Pipe, Add	11.85	
33 42 11 00-1340 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	177.77	24.81
For Bituminous Coated Pipe, Add	13.42	
33 42 11 00-1341 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	209.02	28.12
For Bituminous Coated Pipe, Add	15.92	
33 42 11 00-1342 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1320)</small>		
33 42 11 00-1343 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	162.47	18.19
For Bituminous Coated Pipe, Add	9.91	
33 42 11 00-1344 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	187.52	21.50
For Bituminous Coated Pipe, Add	11.63	
33 42 11 00-1345 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	212.53	24.81
For Bituminous Coated Pipe, Add	13.20	
33 42 11 00-1346 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	248.13	28.12
For Bituminous Coated Pipe, Add	15.49	
33 42 11 00-1347 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	272.76	29.77
For Bituminous Coated Pipe, Add	17.07	
33 42 11 00-1348 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1310)</small>		
33 42 11 00-1349 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1348)</small>		
33 42 11 00-1350 LF 30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	86.50	14.02
33 42 11 00-1351 LF 36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	110.35	18.19
33 42 11 00-1352 LF 42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	126.22	21.50
33 42 11 00-1353 LF 48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	142.92	24.81
33 42 11 00-1354 LF 54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	168.65	28.12
33 42 11 00-1355 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1348)</small>		
33 42 11 00-1356 LF 30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	97.21	14.02
33 42 11 00-1357 LF 36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	125.64	18.19
33 42 11 00-1358 LF 42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	143.96	21.50
33 42 11 00-1359 LF 48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	162.28	24.81
33 42 11 00-1360 LF 54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	191.33	28.12
33 42 11 00-1361 LF 60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	209.19	29.77
33 42 11 00-1362 LF 66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	254.39	36.38
33 42 11 00-1363 LF 72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	301.49	52.91
33 42 11 00-1364 LF 78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	325.16	57.88
33 42 11 00-1365 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1348)</small>		
33 42 11 00-1366 LF 30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	122.22	14.02
33 42 11 00-1367 LF 36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	153.76	18.19
33 42 11 00-1368 LF 42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	177.57	21.50
33 42 11 00-1369 LF 48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	200.83	24.81
33 42 11 00-1370 LF 54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	234.60	28.12
33 42 11 00-1371 LF 60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	257.11	29.77
33 42 11 00-1372 LF 66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	306.94	36.38
33 42 11 00-1373 LF 72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	358.81	52.91
33 42 11 00-1374 LF 78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	387.16	57.88
33 42 11 00-1375 LF 84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	413.33	62.01
33 42 11 00-1376 LF 90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	439.43	66.14
33 42 11 00-1377 LF 96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	466.14	70.28



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1378 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1348)</small>		
33 42 11 00-1379 LF 60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	307.50	29.77
33 42 11 00-1380 LF 66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	360.25	36.38
33 42 11 00-1381 LF 72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	416.90	52.91
33 42 11 00-1382 LF 78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	450.04	57.88
33 42 11 00-1383 LF 84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	480.93	62.01
33 42 11 00-1384 LF 90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	511.80	66.14
33 42 11 00-1385 LF 96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	543.26	70.28
33 42 11 00-1386 LF 102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	577.09	74.41
33 42 11 00-1387 LF 108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	612.77	82.68
33 42 11 00-1388 Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1310)</small>		
Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.		
33 42 11 00-1389 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1388)</small>		
33 42 11 00-1390 LF 18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	60.40	9.35
33 42 11 00-1391 LF 21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	64.96	10.13
33 42 11 00-1392 LF 24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	78.07	10.90
33 42 11 00-1393 LF 27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	90.15	12.46
33 42 11 00-1394 LF 30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	101.17	14.02
33 42 11 00-1395 LF 33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	112.68	15.58
33 42 11 00-1396 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1388)</small>		
33 42 11 00-1397 LF 18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	69.46	9.35
33 42 11 00-1398 LF 21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	80.15	10.13
33 42 11 00-1399 LF 24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	90.26	10.90
33 42 11 00-1400 LF 27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	103.82	12.46
33 42 11 00-1401 LF 30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	116.34	14.02
33 42 11 00-1402 LF 33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	129.39	15.58
33 42 11 00-1403 LF 36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	146.44	18.19
33 42 11 00-1404 LF 42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	168.84	21.50
33 42 11 00-1405 LF 48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	191.03	24.81
33 42 11 00-1406 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1388)</small>		
33 42 11 00-1407 LF 30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	146.00	14.02
33 42 11 00-1408 LF 33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	161.95	15.58
33 42 11 00-1409 LF 36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	182.01	18.19
33 42 11 00-1410 LF 42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	210.38	21.50
33 42 11 00-1411 LF 48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	238.50	24.81
33 42 11 00-1412 LF 54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	328.89	28.12
33 42 11 00-1413 LF 60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	361.92	29.77
33 42 11 00-1414 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1388)</small>		
33 42 11 00-1415 LF 48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	335.22	24.81
33 42 11 00-1416 LF 54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	388.52	28.12
33 42 11 00-1417 LF 60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	428.25	29.77
33 42 11 00-1418 LF 66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	497.75	36.38
33 42 11 00-1419 LF 72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	565.83	52.91
33 42 11 00-1420 LF 78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	610.93	57.88
33 42 11 00-1421 LF 84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	653.42	62.01
33 42 11 00-1422 Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-0538)</small>		
33 42 11 00-1423 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1422)</small>		
33 42 11 00-1424 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1423)</small>		
33 42 11 00-1425 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	42.33	8.57
For Bituminous Coated Pipe, Add	4.23	
33 42 11 00-1426 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	47.79	9.35
For Bituminous Coated Pipe, Add	5.05	
33 42 11 00-1427 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	54.85	10.13
For Bituminous Coated Pipe, Add	6.01	
33 42 11 00-1428 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1423)</small>		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1429 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	47.70 4.21	8.57
33 42 11 00-1430 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	52.95 4.86	9.35
33 42 11 00-1431 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	62.29 5.97	10.13
33 42 11 00-1432 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	70.25 6.84	10.90
33 42 11 00-1433 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	90.62 8.66	14.02
33 42 11 00-1434 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1423)</small>		
33 42 11 00-1435 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	86.60 6.52	10.90
33 42 11 00-1436 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	111.00 8.22	14.02
33 42 11 00-1437 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	141.24 10.27	18.19
33 42 11 00-1438 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	163.51 12.14	21.50
33 42 11 00-1439 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1423)</small>		
33 42 11 00-1440 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	167.24 9.91	18.19
33 42 11 00-1441 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	193.89 11.69	21.50
33 42 11 00-1442 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	225.32 13.69	24.81
33 42 11 00-1443 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	252.33 15.24	28.12
33 42 11 00-1444 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1422)</small>		
33 42 11 00-1445 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1444)</small>		
33 42 11 00-1446 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	195.54	28.12
33 42 11 00-1447 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	214.08	29.77
33 42 11 00-1448 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	260.43	36.38
33 42 11 00-1449 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1444)</small>		
33 42 11 00-1450 LF 60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	238.81	28.12
33 42 11 00-1451 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	261.99	29.77
33 42 11 00-1452 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	312.76	36.38
33 42 11 00-1453 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	365.07	52.91
33 42 11 00-1454 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	393.87	57.88
33 42 11 00-1455 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	420.49	62.01
33 42 11 00-1456 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1444)</small>		
33 42 11 00-1457 LF 66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	312.32	29.77
33 42 11 00-1458 LF 73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	365.86	36.38
33 42 11 00-1459 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	422.94	52.91
33 42 11 00-1460 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	456.52	57.88
33 42 11 00-1461 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	487.85	62.01
33 42 11 00-1462 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	519.16	66.14
33 42 11 00-1463 Corrugated Steel Pipe Fittings <small>(33 42 11 00-0538)</small> Note: Equivalent pipe-arch sizes are approximate.		
33 42 11 00-1464 Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings <small>(33 42 11 00-1463)</small> Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.		
33 42 11 00-1465 EA Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	71.31	
33 42 11 00-1466 EA Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	89.42	
33 42 11 00-1467 EA Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	107.54	
33 42 11 00-1468 EA Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	126.80	
33 42 11 00-1469 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	153.94	
33 42 11 00-1470 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	181.10	
33 42 11 00-1471 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	208.28	
33 42 11 00-1472 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	235.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1473 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	306.76	
33 42 11 00-1474 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	365.61	
33 42 11 00-1475 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	424.47	
33 42 11 00-1476 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	548.98	
33 42 11 00-1477 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	619.17	
33 42 11 00-1478 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	691.61	
33 42 11 00-1479 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	766.31	
33 42 11 00-1480 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	933.83	
33 42 11 00-1481 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,018.72	
33 42 11 00-1482 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,105.88	
33 42 11 00-1483 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,357.17	
33 42 11 00-1484 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,456.79	
33 42 11 00-1485 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,557.53	
33 42 11 00-1486 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,658.26	
33 42 11 00-1487 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,757.87	
33 42 11 00-1488 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,858.61	
33 42 11 00-1489 EA Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	1,964.84	
33 42 11 00-1490 EA Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,077.12	
33 42 11 00-1491 EA Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,195.80	

33 42 11 00-1492

Fabricate Corrugated Steel Pipe Tees Or Laterals (33 42 11 00-1463)

Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.

33 42 11 00-1493 EA Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	92.82	
33 42 11 00-1494 EA Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	118.85	
33 42 11 00-1495 EA Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	144.87	
33 42 11 00-1496 EA Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	170.93	
33 42 11 00-1497 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	208.28	
33 42 11 00-1498 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	246.75	
33 42 11 00-1499 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	285.26	
33 42 11 00-1500 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	323.71	
33 42 11 00-1501 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe)	424.47	
33 42 11 00-1502 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe)	505.97	
33 42 11 00-1503 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe)	588.60	
33 42 11 00-1504 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe)	764.04	
33 42 11 00-1505 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	860.25	
33 42 11 00-1506 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	959.86	
33 42 11 00-1507 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,061.73	
33 42 11 00-1508 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe)	1,294.90	
33 42 11 00-1509 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	1,410.37	
33 42 11 00-1510 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	1,528.09	
33 42 11 00-1511 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	1,880.09	
33 42 11 00-1512 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,014.81	
33 42 11 00-1513 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,149.51	
33 42 11 00-1514 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,285.32	
33 42 11 00-1515 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,421.16	
33 42 11 00-1516 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,555.85	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1517	EA		Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe)	2,698.03	
33 42 11 00-1518	EA		Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe)	2,848.13	
33 42 11 00-1519	EA		Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe)	3,006.55	
33 42 11 00-1520			Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting (33 42 11 00-1463)		
			Note: Applied to pipe tasks.		
33 42 11 00-1521	EA		Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting	35.78	
33 42 11 00-1522	EA		Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting	45.01	
33 42 11 00-1523	EA		Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting	56.60	
33 42 11 00-1524	EA		Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting	69.31	
33 42 11 00-1525	EA		Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	87.70	
33 42 11 00-1526	EA		Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	107.40	
33 42 11 00-1527	EA		Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	125.80	
33 42 11 00-1528	EA		Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	146.16	
33 42 11 00-1529	EA		Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	179.52	
33 42 11 00-1530	EA		Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	214.04	
33 42 11 00-1531	EA		Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	255.38	
33 42 11 00-1532	EA		Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	314.15	
33 42 11 00-1533	EA		Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	355.58	
33 42 11 00-1534	EA		Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	400.44	
33 42 11 00-1535	EA		Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	485.61	
33 42 11 00-1536	EA		Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	538.53	
33 42 11 00-1537	EA		Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	657.06	
33 42 11 00-1538	EA		Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	715.77	
33 42 11 00-1539	EA		Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	777.93	
33 42 11 00-1540	EA		Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	838.88	
33 42 11 00-1541	EA		Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	901.02	
33 42 11 00-1542	EA		Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	964.31	
33 42 11 00-1543	EA		Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,026.47	
33 42 11 00-1544	EA		Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,088.59	
33 42 11 00-1545	EA		Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,154.48	
33 42 11 00-1546	EA		Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,224.34	
33 42 11 00-1547	EA		Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,298.44	
33 42 11 00-1548			Coupling Bands, Corrugated Metal Pipe Fitting (33 42 11 00-1463)		
33 42 11 00-1549	EA		6" Coupling Band, Corrugated Metal Pipe Fitting	9.79	
			<i>For Bituminous Coated, Add</i>	2.84	
33 42 11 00-1550	EA		8" Coupling Band, Corrugated Metal Pipe Fitting	13.00	
			<i>For Bituminous Coated, Add</i>	3.77	
33 42 11 00-1551	EA		10" Coupling Band, Corrugated Metal Pipe Fitting	16.38	
			<i>For Bituminous Coated, Add</i>	4.75	
33 42 11 00-1552	EA		12" Coupling Band, Corrugated Metal Pipe Fitting	27.18	
			<i>For Bituminous Coated, Add</i>	7.88	
33 42 11 00-1553	EA		15" Coupling Band, Corrugated Metal Pipe Fitting	34.27	
			<i>For Bituminous Coated, Add</i>	9.94	
33 42 11 00-1554	EA		18" Coupling Band, Corrugated Metal Pipe Fitting	50.29	
			<i>For Bituminous Coated, Add</i>	14.58	
33 42 11 00-1555	EA		21" Coupling Band, Corrugated Metal Pipe Fitting	59.68	
			<i>For Bituminous Coated, Add</i>	17.31	
33 42 11 00-1556	EA		24" Coupling Band, Corrugated Metal Pipe Fitting	67.68	
			<i>For Bituminous Coated, Add</i>	19.63	
33 42 11 00-1557	EA		30" Coupling Band, Corrugated Metal Pipe Fitting	117.12	
			<i>For Bituminous Coated, Add</i>	33.96	
33 42 11 00-1558	EA		36" Coupling Band, Corrugated Metal Pipe Fitting	187.38	
			<i>For Bituminous Coated, Add</i>	44.97	
33 42 11 00-1559	EA		42" Coupling Band, Corrugated Metal Pipe Fitting	220.17	
			<i>For Bituminous Coated, Add</i>	52.84	
33 42 11 00-1560	EA		48" Coupling Band, Corrugated Metal Pipe Fitting	246.70	
			<i>For Bituminous Coated, Add</i>	59.21	
33 42 11 00-1561	EA		54" Coupling Band, Corrugated Metal Pipe Fitting	349.86	
			<i>For Bituminous Coated, Add</i>	83.97	
33 42 11 00-1562	EA		60" Coupling Band, Corrugated Metal Pipe Fitting	500.41	
			<i>For Bituminous Coated, Add</i>	90.07	
33 42 11 00-1563	EA		66" Coupling Band, Corrugated Metal Pipe Fitting	615.00	
			<i>For Bituminous Coated, Add</i>	110.70	
33 42 11 00-1564	EA		72" Coupling Band, Corrugated Metal Pipe Fitting	790.00	
			<i>For Bituminous Coated, Add</i>	110.60	
33 42 11 00-1565	EA		78" Coupling Band, Corrugated Metal Pipe Fitting	844.96	
			<i>For Bituminous Coated, Add</i>	118.29	
33 42 11 00-1566	EA		84" Coupling Band, Corrugated Metal Pipe Fitting	900.23	
			<i>For Bituminous Coated, Add</i>	126.03	
33 42 11 00-1567	EA		90" Coupling Band, Corrugated Metal Pipe Fitting	955.21	
			<i>For Bituminous Coated, Add</i>	133.73	
33 42 11 00-1568	EA		96" Coupling Band, Corrugated Metal Pipe Fitting	1,010.34	
			<i>For Bituminous Coated, Add</i>	141.45	
33 42 11 00-1569	EA		102" Coupling Band, Corrugated Metal Pipe Fitting	1,065.61	
			<i>For Bituminous Coated, Add</i>	149.19	
33 42 11 00-1570	EA		108" Coupling Band, Corrugated Metal Pipe Fitting	1,120.62	
			<i>For Bituminous Coated, Add</i>	156.89	
33 42 11 00-1571	EA		114" Coupling Band, Corrugated Metal Pipe Fitting	1,327.25	
			<i>For Bituminous Coated, Add</i>	159.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1572 EA 120" Coupling Band, Corrugated Metal Pipe Fitting <i>For Bituminous Coated, Add</i>	1,230.56 147.67	
33 42 11 00-1573 EA 126" Coupling Band, Corrugated Metal Pipe Fitting <i>For Bituminous Coated, Add</i>	1,285.41 154.25	
33 42 11 00-1574 EA 132" Coupling Band, Corrugated Metal Pipe Fitting <i>For Bituminous Coated, Add</i>	1,340.65 160.88	
33 42 11 00-1575 EA 138" Coupling Band, Corrugated Metal Pipe Fitting <i>For Bituminous Coated, Add</i>	1,395.94 167.51	
 33 42 13 Stormwater Culverts (33 42)		
33 42 13 13 Precast Concrete Stormwater Culverts (33 42 13)		
33 42 13 13-0001 Precast Reinforced Concrete Box Culvert (33 42 13 13)		
Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0841 for crane lifting equipment.		
33 42 13 13-0002 LF 3' x 3' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	491.86 19.67	41.34
33 42 13 13-0003 LF 4' x 2' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	560.68 22.43	41.34
33 42 13 13-0004 LF 4' x 3' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	671.84 26.87	41.34
33 42 13 13-0005 LF 5' x 3' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	804.07 32.16	51.68
33 42 13 13-0006 LF 5' x 4' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	825.25 33.01	51.68
33 42 13 13-0007 LF 5' x 5' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	835.83 33.43	51.68
33 42 13 13-0008 LF 6' x 3' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	861.22 34.45	53.74
33 42 13 13-0009 LF 6' x 4' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	866.51 34.66	53.74
33 42 13 13-0010 LF 6' x 6' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	961.79 38.47	53.74
33 42 13 13-0011 LF 7' x 4' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	978.64 39.15	62.01
33 42 13 13-0012 LF 7' x 6' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,024.14 40.97	84.34
33 42 13 13-0013 LF 8' x 2' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	967.09 38.68	53.74
33 42 13 13-0014 LF 8' x 3' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	983.94 39.36	62.01
33 42 13 13-0015 LF 8' x 4' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	999.82 39.99	62.01
33 42 13 13-0016 LF 8' x 5' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,196.53 47.86	82.68
33 42 13 13-0017 LF 8' x 6' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,200.76 48.03	82.68
33 42 13 13-0018 LF 8' x 8' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,313.82 52.55	103.35
33 42 13 13-0019 LF 9' x 4' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,333.10 53.32	82.68
33 42 13 13-0020 LF 9' x 6' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,391.10 55.64	103.35
33 42 13 13-0021 LF 10' x 3' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,396.39 55.86	103.35
33 42 13 13-0022 LF 10' x 4' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,724.59 68.98	103.35
33 42 13 13-0023 LF 10' x 5' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,787.90 71.52	124.02
33 42 13 13-0024 LF 10' x 6' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,809.07 72.36	124.02
33 42 13 13-0025 LF 10' x 7' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,814.36 72.57	124.02
33 42 13 13-0026 LF 10' x 8' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,821.77 72.87	124.02
33 42 13 13-0027 LF 12' x 3' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,872.38 74.90	144.69
33 42 13 13-0028 LF 12' x 4' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,872.38 74.90	144.69
33 42 13 13-0029 LF 12' x 6' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,872.38 74.90	144.69
33 42 13 13-0030 LF 12' x 8' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,872.38 74.90	144.69
33 42 13 13-0031 LF 16' x 10' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	2,782.64 111.31	165.37
33 42 13 13-0032 LF 24' x 10' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	3,947.21 157.89	165.37

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0033			Precast Reinforced Concrete Box Culvert For Roadways <small>(33 42 13 13)</small> Note: AASHTO HL-93 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0841 for crane lifting equipment.		
33 42 13 13-0034	LF		3' x 3' Precast Reinforced Concrete Box Culvert For Roadways 1,302.29	41.34	
			<i>For Each LF Of Cut-Off Section, Add</i> 52.09		
33 42 13 13-0035	LF		4' x 2' Precast Reinforced Concrete Box Culvert For Roadways 1,403.98	41.34	
			<i>For Each LF Of Cut-Off Section, Add</i> 56.16		
33 42 13 13-0036	LF		4' x 3' Precast Reinforced Concrete Box Culvert For Roadways 1,583.95	41.34	
			<i>For Each LF Of Cut-Off Section, Add</i> 63.36		
33 42 13 13-0037	LF		5' x 3' Precast Reinforced Concrete Box Culvert For Roadways 1,784.95	51.68	
			<i>For Each LF Of Cut-Off Section, Add</i> 71.40		
33 42 13 13-0038	LF		5' x 4' Precast Reinforced Concrete Box Culvert For Roadways 1,964.92	51.68	
			<i>For Each LF Of Cut-Off Section, Add</i> 78.60		
33 42 13 13-0039	LF		5' x 5' Precast Reinforced Concrete Box Culvert For Roadways 2,144.88	51.68	
			<i>For Each LF Of Cut-Off Section, Add</i> 85.80		
33 42 13 13-0040	LF		6' x 3' Precast Reinforced Concrete Box Culvert For Roadways 1,969.13	53.74	
			<i>For Each LF Of Cut-Off Section, Add</i> 78.77		
33 42 13 13-0041	LF		6' x 4' Precast Reinforced Concrete Box Culvert For Roadways 2,149.09	53.74	
			<i>For Each LF Of Cut-Off Section, Add</i> 85.96		
33 42 13 13-0042	LF		6' x 6' Precast Reinforced Concrete Box Culvert For Roadways 2,509.03	53.74	
			<i>For Each LF Of Cut-Off Section, Add</i> 100.36		
33 42 13 13-0043	LF		7' x 4' Precast Reinforced Concrete Box Culvert For Roadways 2,345.91	62.01	
			<i>For Each LF Of Cut-Off Section, Add</i> 93.84		
33 42 13 13-0044	LF		7' x 6' Precast Reinforced Concrete Box Culvert For Roadways 2,751.31	84.34	
			<i>For Each LF Of Cut-Off Section, Add</i> 110.05		
33 42 13 13-0045	LF		8' x 2' Precast Reinforced Concrete Box Culvert For Roadways 2,149.09	53.74	
			<i>For Each LF Of Cut-Off Section, Add</i> 85.96		
33 42 13 13-0046	LF		8' x 3' Precast Reinforced Concrete Box Culvert For Roadways 2,345.91	62.01	
			<i>For Each LF Of Cut-Off Section, Add</i> 93.84		
33 42 13 13-0047	LF		8' x 4' Precast Reinforced Concrete Box Culvert For Roadways 2,525.88	62.01	
			<i>For Each LF Of Cut-Off Section, Add</i> 101.04		
33 42 13 13-0048	LF		8' x 4' Precast Reinforced Concrete Box Culvert For Roadways 2,747.95	82.68	
			<i>For Each LF Of Cut-Off Section, Add</i> 109.92		
33 42 13 13-0049	LF		8' x 6' Precast Reinforced Concrete Box Culvert For Roadways 2,927.92	82.68	
			<i>For Each LF Of Cut-Off Section, Add</i> 117.12		
33 42 13 13-0050	LF		8' x 8' Precast Reinforced Concrete Box Culvert For Roadways 3,329.97	103.35	
			<i>For Each LF Of Cut-Off Section, Add</i> 133.20		
33 42 13 13-0051	LF		9' x 4' Precast Reinforced Concrete Box Culvert For Roadways 2,957.37	82.68	
			<i>For Each LF Of Cut-Off Section, Add</i> 118.29		
33 42 13 13-0052	LF		9' x 6' Precast Reinforced Concrete Box Culvert For Roadways 3,384.13	103.35	
			<i>For Each LF Of Cut-Off Section, Add</i> 135.37		
33 42 13 13-0053	LF		10' x 3' Precast Reinforced Concrete Box Culvert For Roadways 3,344.97	103.35	
			<i>For Each LF Of Cut-Off Section, Add</i> 133.80		
33 42 13 13-0054	LF		10' x 4' Precast Reinforced Concrete Box Culvert For Roadways 3,558.67	103.35	
			<i>For Each LF Of Cut-Off Section, Add</i> 142.35		
33 42 13 13-0055	LF		10' x 5' Precast Reinforced Concrete Box Culvert For Roadways 3,814.49	124.02	
			<i>For Each LF Of Cut-Off Section, Add</i> 152.58		
33 42 13 13-0056	LF		10' x 6' Precast Reinforced Concrete Box Culvert For Roadways 4,028.19	124.02	
			<i>For Each LF Of Cut-Off Section, Add</i> 161.13		
33 42 13 13-0057	LF		10' x 7' Precast Reinforced Concrete Box Culvert For Roadways 4,241.92	124.02	
			<i>For Each LF Of Cut-Off Section, Add</i> 169.68		
33 42 13 13-0058	LF		10' x 8' Precast Reinforced Concrete Box Culvert For Roadways 4,455.62	124.02	
			<i>For Each LF Of Cut-Off Section, Add</i> 178.22		
33 42 13 13-0059	LF		12' x 3' Precast Reinforced Concrete Box Culvert For Roadways 4,425.04	144.69	
			<i>For Each LF Of Cut-Off Section, Add</i> 177.00		
33 42 13 13-0060	LF		12' x 4' Precast Reinforced Concrete Box Culvert For Roadways 4,667.94	144.69	
			<i>For Each LF Of Cut-Off Section, Add</i> 186.72		
33 42 13 13-0061	LF		12' x 6' Precast Reinforced Concrete Box Culvert For Roadways 5,153.84	144.69	
			<i>For Each LF Of Cut-Off Section, Add</i> 206.15		
33 42 13 13-0062	LF		12' x 8' Precast Reinforced Concrete Box Culvert For Roadways 5,639.75	144.69	
			<i>For Each LF Of Cut-Off Section, Add</i> 225.59		
33 42 13 13-0063	LF		16' x 10' Precast Reinforced Concrete Box Culvert For Roadways 6,761.63	165.37	
			<i>For Each LF Of Cut-Off Section, Add</i> 270.47		
33 42 13 13-0064	LF		24' x 10' Precast Reinforced Concrete Box Culvert For Roadways 8,597.23	165.37	
			<i>For Each LF Of Cut-Off Section, Add</i> 343.89		

33 42 23 Headwalls and Endwalls for Stormwater Piping (33 42)

33 42 23 00-0001 Headwalls (33 42 23)
Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.

33 42 23 00-0002 Cast In Place Concrete Headwalls (33 42 23 00-0001)
Note: Includes concrete, forms, rebar (where required), finish and curing.

33 42 23 00-0003 Skewed Wingwall, Cast In Place Concrete Headwall (33 42 23 00-0002)
Note: Sized by pipe diameter.

33 42 23 00-0004	EA		12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall 1,108.73	546.27	
33 42 23 00-0005	EA		15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall 1,400.52	582.68	
33 42 23 00-0006	EA		18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall 1,821.94	763.24	
33 42 23 00-0007	EA		24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall 2,817.71	1,092.54	
33 42 23 00-0008	EA		30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall 3,902.04	1,456.72	
33 42 23 00-0009	EA		36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall 4,890.90	1,920.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 23 00-0010 EA 42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....	6,802.65	2,648.55
33 42 23 00-0011 EA 48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....	8,081.75	3,121.50
33 42 23 00-0012 EA 54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....	9,730.95	3,800.18
33 42 23 00-0013 EA 60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....	11,699.82	4,600.16
33 42 23 00-0014 Precast Concrete Headwalls <small>(33 42 23 00-0001)</small>		
33 42 23 00-0015 EA 12" Pipe, Precast Concrete Headwall.....	550.30	140.24
33 42 23 00-0016 EA 15" Pipe, Precast Concrete Headwall.....	573.68	148.04
33 42 23 00-0017 EA 18" Pipe, Precast Concrete Headwall.....	633.26	168.29
33 42 23 00-0018 EA 24" Pipe, Precast Concrete Headwall.....	696.84	179.21
33 42 23 00-0019 EA 30" Pipe, Precast Concrete Headwall.....	909.42	210.37
33 42 23 00-0020 EA 36" Pipe, Precast Concrete Headwall.....	1,028.58	218.16
33 42 23 00-0021 EA 42" Pipe, Precast Concrete Headwall.....	1,330.27	255.15
33 42 23 00-0022 EA 48" Pipe, Precast Concrete Headwall.....	1,462.35	281.12
33 42 23 00-0023 EA 54" Pipe, Precast Concrete Headwall.....	1,608.61	297.66
33 42 23 00-0024 EA 60" Pipe, Precast Concrete Headwall.....	1,815.60	297.66
33 42 23 00-0025 EA 72" Pipe, Precast Concrete Headwall.....	2,163.44	372.07
33 42 23 00-0026 EA 84" Pipe, Precast Concrete Headwall.....	3,013.66	446.48
33 42 23 00-0027 Precast Concrete Wingwalls <small>(33 42 23 00-0001)</small>		
33 42 23 00-0028 EA 18" ID Pipe (26" Hole) Precast Concrete Wingwall..... Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	3,520.96	1,473.38
33 42 23 00-0029 EA 24" ID Pipe (32" Hole) Precast Concrete Wingwall..... Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	3,769.01	1,637.09
33 42 23 00-0030 EA 30" ID Pipe (42" Hole) Precast Concrete Wingwall..... Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	4,182.41	1,909.94
33 42 23 00-0031 EA 33" ID Pipe (46" Hole) Precast Concrete Wingwall..... Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.	4,595.82	2,182.79
33 42 23 00-0032 EA 36" ID Pipe (50" Hole) Precast Concrete Wingwall..... Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	4,595.82	2,182.79
33 42 23 00-0033 EA 44" ID Pipe (58" Hole) Precast Concrete Wingwall..... Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	4,761.18	2,291.93
33 42 23 00-0034 EA 48" ID Pipe (62" Hole) Precast Concrete Wingwall..... Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	7,394.19	2,346.50
33 42 23 00-0035 EA 52" ID Pipe (66" Hole) Precast Concrete Wingwall..... Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.	7,642.23	2,510.21
33 42 23 00-0036 Precast Concrete Transverse Drainage Interceptor <small>(33 42 23 00-0001)</small>		
33 42 23 00-0037 EA 34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate.....	2,930.60	578.77
33 42 26 End Sections for Stormwater Piping <small>(33 42)</small>		
33 42 26 16 Corrugated Metal End Sections for Stormwater Piping <small>(33 42 26)</small>		
33 42 26 16-0001 Corrugated Metal Pipe End Sections <small>(33 42 26 16)</small>		
33 42 26 16-0002 Galvanized Corrugated Steel Pipe End Sections <small>(33 42 26 16-0001)</small>		
33 42 26 16-0003 Type 1 Galvanized Corrugated Steel Pipe End Sections <small>(33 42 26 16-0002)</small> Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0004 EA 12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	208.30	54.54
33 42 26 16-0005 EA 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	240.98	58.43
33 42 26 16-0006 EA 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	280.40	62.33
33 42 26 16-0007 EA 21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	338.40	68.17
33 42 26 16-0008 EA 24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	374.62	74.02
33 42 26 16-0009 Type 2 Galvanized Corrugated Steel Pipe End Sections <small>(33 42 26 16-0002)</small> Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0010 EA 30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	598.34	83.76
33 42 26 16-0011 EA 36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	775.04	99.22
33 42 26 16-0012 EA 42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,183.06	115.75
33 42 26 16-0013 EA 48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,443.84	132.29
33 42 26 16-0014 EA 54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,721.17	165.37
33 42 26 16-0015 EA 60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	2,010.88	198.43
33 42 26 16-0016 Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections <small>(33 42 26 16-0002)</small> Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26 16-0017 EA 12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	217.17	54.54
33 42 26 16-0018 EA 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	250.09	58.43
33 42 26 16-0019 EA 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	294.41	62.33
33 42 26 16-0020 EA 21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	355.22	68.17
33 42 26 16-0021 EA 24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	393.70	74.02
33 42 26 16-0022 EA 30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	656.93	83.76
33 42 26 16-0023 EA 36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	846.86	99.22
33 42 26 16-0024 EA 42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,341.91	115.75
33 42 26 16-0025 EA 48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,648.84	132.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0026 EA 54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,928.48	165.37
33 42 26 16-0027 EA 60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,667.47	198.43
33 42 26 16-0028 EA 66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,038.94	297.66
33 42 26 16-0029 EA 72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,563.94	396.87
33 42 26 16-0030 EA 78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,881.07	425.81
33 42 26 16-0031 EA 84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,205.76	454.74
33 42 26 16-0032 Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section ⁽³³⁾		
<small>42 26 16-0002</small>		
33 42 26 16-0033 EA Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section	26.82	
33 42 26 16-0034 EA Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section	29.84	
33 42 26 16-0035 EA Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section	33.52	
33 42 26 16-0036 EA Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section	36.44	
33 42 26 16-0037 EA Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section	40.77	
33 42 26 16-0038 EA Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section	70.82	
33 42 26 16-0039 EA Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section	76.21	
33 42 26 16-0040 EA Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section	104.01	
33 42 26 16-0041 EA Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section	111.43	
33 42 26 16-0042 EA Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section	135.94	
33 42 26 16-0043 EA Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section	139.39	
33 42 26 16-0044 EA Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section	149.09	
33 42 26 16-0045 EA Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section	170.52	
33 42 26 16-0046 EA Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section	190.65	
33 42 26 16-0047 EA 84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension.....	195.53	
33 42 26 16-0048 Galvanized Corrugated Steel Pipe-Arch End Sections ^(33 42 26 16-0001)		
33 42 26 16-0049 Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections ^(33 42 26 16-0048)		
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0050 EA 17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	240.98	58.43
33 42 26 16-0051 EA 21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	280.40	62.33
33 42 26 16-0052 EA 24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	338.40	68.17
33 42 26 16-0053 EA 28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	374.62	74.02
33 42 26 16-0054 Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections ^(33 42 26 16-0048)		
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0055 EA 17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	233.32	58.43
33 42 26 16-0056 EA 21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	266.24	62.33
33 42 26 16-0057 EA 24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	297.87	68.17
33 42 26 16-0058 EA 28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	335.93	74.02
33 42 26 16-0059 EA 35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	488.03	83.76
33 42 26 16-0060 EA 42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	707.82	99.22
33 42 26 16-0061 EA 49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,095.86	115.75
33 42 26 16-0062 EA 57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,385.73	132.29
33 42 26 16-0063 Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections ^(33 42 26 16-0048)		
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26 16-0064 EA 17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	237.21	58.43
33 42 26 16-0065 EA 21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	274.68	62.33
33 42 26 16-0066 EA 24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	311.07	68.17
33 42 26 16-0067 EA 28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	351.58	74.02
33 42 26 16-0068 EA 35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	514.63	83.76
33 42 26 16-0069 EA 42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	744.09	99.22
33 42 26 16-0070 EA 49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,153.88	115.75
33 42 26 16-0071 EA 57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,452.51	132.29
33 42 26 16-0072 EA 64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,748.61	165.37
33 42 26 16-0073 EA 71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,295.76	198.43
33 42 26 16-0074 EA 77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,207.42	297.66
33 42 26 16-0075 EA 83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,561.70	396.87
33 42 26 16-0076 Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section ^(33 42 26 16-0048)		
33 42 26 16-0077 EA Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section	29.84	
33 42 26 16-0078 EA Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section	33.52	
33 42 26 16-0079 EA Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section	36.44	
33 42 26 16-0080 EA Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section	40.77	
33 42 26 16-0081 EA Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section	70.82	
33 42 26 16-0082 EA Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section	76.21	
33 42 26 16-0083 EA Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section	104.01	
33 42 26 16-0084 EA Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section	115.82	
33 42 26 16-0085 EA Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section	135.94	
33 42 26 16-0086 EA Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section	141.13	
33 42 26 16-0087 EA Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section	163.33	
33 42 26 16-0088 EA Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section	186.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
33 42 26 16-0089	Corrugated Aluminum Pipe End Sections (33 42 26 16-0001)		
33 42 26 16-0090	Corrugated Aluminum Pipe End Sections (33 42 26 16-0089)		
33 42 26 16-0091 EA	12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	311.33	54.54
33 42 26 16-0092 EA	15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	358.29	58.43
33 42 26 16-0093 EA	18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	423.96	62.33
33 42 26 16-0094 EA	21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	524.51	68.17
33 42 26 16-0095 EA	24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	683.30	74.02
33 42 26 16-0096 EA	30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,021.48	83.76
33 42 26 16-0097 EA	36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,386.41	99.22
33 42 26 16-0098 EA	36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	1,723.50	99.22
33 42 26 16-0099 EA	42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	2,197.21	115.75
33 42 26 16-0100 EA	48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,132.90	132.29
33 42 26 16-0101 EA	54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,472.06	165.37
33 42 26 16-0102 EA	60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	4,677.44	198.43
33 42 26 16-0103 EA	66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	5,304.92	297.66
33 42 26 16-0104 EA	72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	6,209.45	396.87
33 42 26 16-0105 EA	78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	6,781.04	425.81
33 42 26 16-0106 EA	84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	7,155.77	454.74
33 42 26 16-0107 EA	90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	9,777.67	496.09
33 42 26 16-0108 EA	96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	10,823.14	537.43
33 42 26 16-0109	Toe Plate Extensions For Corrugated Aluminum Pipe End Section (33 42 26 16-0089)		
33 42 26 16-0110 EA	Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	48.73	
33 42 26 16-0111 EA	Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	51.65	
33 42 26 16-0112 EA	Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	56.01	
33 42 26 16-0113 EA	Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	63.02	
33 42 26 16-0114 EA	Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	66.87	
33 42 26 16-0115 EA	Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	86.65	
33 42 26 16-0116 EA	Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	103.58	
33 42 26 16-0117 EA	Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	109.21	
33 42 26 16-0118 EA	Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	119.79	
33 42 26 16-0119 EA	Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	135.40	
33 42 26 16-0120 EA	Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	160.02	
33 42 26 16-0121 EA	Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	223.11	
33 42 26 16-0122 EA	Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	240.70	
33 42 26 16-0123 EA	Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	305.81	
33 42 26 16-0124 EA	Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	331.04	
33 42 26 16-0125 EA	Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	352.77	
33 42 26 16-0126 EA	Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	375.59	
33 42 26 16-0127 EA	Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	398.71	
33 42 26 16-0128	Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0001)		
33 42 26 16-0129	Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0128)		
33 42 26 16-0130 EA	17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	369.19	58.43
33 42 26 16-0131 EA	21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	450.52	62.33
33 42 26 16-0132 EA	24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	489.29	68.17
33 42 26 16-0133 EA	28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	528.03	74.02
33 42 26 16-0134 EA	35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	788.58	83.76
33 42 26 16-0135 EA	42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,401.91	99.22
33 42 26 16-0136 EA	42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,487.37	99.22
33 42 26 16-0137 EA	49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,986.42	115.75
33 42 26 16-0138 EA	57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,050.81	132.29
33 42 26 16-0139 EA	64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,494.34	165.37
33 42 26 16-0140 EA	71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	4,224.83	198.43
33 42 26 16-0141 EA	77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	7,074.10	297.66
33 42 26 16-0142 EA	83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	7,433.00	396.87
33 42 26 16-0143 EA	87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,092.63	425.81
33 42 26 16-0144 EA	95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,447.67	454.74
33 42 26 16-0145 EA	103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	9,208.05	496.09
33 42 26 16-0146 EA	112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	9,755.97	537.43
33 42 26 16-0147	Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section (33 42 26 16-0128)		
33 42 26 16-0148 EA	Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	51.65	
33 42 26 16-0149 EA	Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	56.01	
33 42 26 16-0150 EA	Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	59.08	
33 42 26 16-0151 EA	Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	64.71	
33 42 26 16-0152 EA	Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	74.27	
33 42 26 16-0153 EA	Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	96.46	
33 42 26 16-0154 EA	Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	105.44	
33 42 26 16-0155 EA	Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	119.79	
33 42 26 16-0156 EA	Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	135.40	
33 42 26 16-0157 EA	Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	160.02	
33 42 26 16-0158 EA	Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	203.14	
33 42 26 16-0159 EA	Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	257.42	
33 42 26 16-0160 EA	Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	347.60	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR
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 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 42 26 16-0161	EA	Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	394.65	
33 42 26 16-0162	EA	Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	413.44	
33 42 26 16-0163	EA	Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	428.83	
33 42 26 16-0164	EA	Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	447.61	
33 42 26 16-0165		Low Slope Corrugated Steel Pipe End Sections And Accessories <small>(33 42 26 16-0001)</small>		
33 42 26 16-0166		4:1 Corrugated Steel Pipe End Sections <small>(33 42 26 16-0165)</small>		
33 42 26 16-0167	EA	15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	473.82	58.43
33 42 26 16-0168	EA	18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	609.16	62.33
33 42 26 16-0169	EA	21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	745.21	68.17
33 42 26 16-0170	EA	24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	890.90	74.02
33 42 26 16-0171	EA	30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	943.00	83.76
33 42 26 16-0172	EA	36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,231.36	99.22
33 42 26 16-0173	EA	42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,944.31	115.75
33 42 26 16-0174		3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End Sections <small>(33 42 26 16-0165)</small>		
		Note: Includes nut and bolt set.		
33 42 26 16-0175	EA	3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section.....	336.71	
33 42 26 16-0176	EA	3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section.....	673.07	
33 42 26 16-0177	EA	3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section.....	738.60	
33 42 26 16-0178	EA	3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section.....	768.00	
33 42 26 16-0179		6:1 Corrugated Steel Pipe End Sections <small>(33 42 26 16-0165)</small>		
33 42 26 16-0180	EA	15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	495.96	58.43
33 42 26 16-0181	EA	18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	648.97	62.33
33 42 26 16-0182	EA	21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	862.37	68.17
33 42 26 16-0183	EA	24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,012.67	74.02
33 42 26 16-0184	EA	30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,201.50	83.76
33 42 26 16-0185	EA	36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,459.52	99.22
33 42 26 16-0186	EA	42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,229.77	115.75
33 42 26 16-0187		3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End Sections <small>(33 42 26 16-0165)</small>		
		Note: Includes nut and bolt set.		
33 42 26 16-0188	EA	3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section.....	654.14	
33 42 26 16-0189	EA	3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section.....	694.50	
33 42 26 16-0190	EA	3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section.....	763.93	
33 42 26 16-0191	EA	3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section.....	803.06	
33 42 26 16-0192		Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section <small>(33 42 26 16-0165)</small>		
33 42 26 16-0193	EA	Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section	57.51	
33 42 26 16-0194	EA	Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section	64.52	
33 42 26 16-0195	EA	Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section	70.21	
33 42 26 16-0196	EA	Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section	78.38	
33 42 26 16-0197	EA	Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section	117.85	
33 42 26 16-0198	EA	Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section	126.47	
33 42 26 16-0199	EA	Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section	169.62	
33 42 26 16-0200		Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories <small>(33 42 26 16-0001)</small>		
33 42 26 16-0201		4:1 Corrugated Steel Pipe-Arch End Section <small>(33 42 26 16-0200)</small>		
33 42 26 16-0202	EA	21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	562.53	62.33
33 42 26 16-0203	EA	24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	705.05	68.17
33 42 26 16-0204	EA	28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	834.02	74.02
33 42 26 16-0205	EA	35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	1,567.52	83.76
33 42 26 16-0206		3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections <small>(33 42 26 16-0200)</small>		
		Note: Includes nut and bolt set.		
33 42 26 16-0207	EA	3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section.....	400.91	
33 42 26 16-0208	EA	3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section.....	728.85	
33 42 26 16-0209	EA	3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section.....	768.00	
33 42 26 16-0210	EA	3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section.....	1,129.52	
33 42 26 16-0211		Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section <small>(33 42 26 16-0200)</small>		
33 42 26 16-0212	EA	Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section.....	58.16	
33 42 26 16-0213	EA	Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section.....	65.95	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0214	EA			Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section	71.90	
33 42 26 16-0215	EA			Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section	85.78	
33 42 26 19				Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping <small>(33 42 26)</small>		
33 42 26 19-0001				Corrugated High Density Polyethylene (HDPE) Pipe End Sections <small>(33 42 26 19)</small>		
33 42 26 19-0002	EA			4" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	47.67	15.95
33 42 26 19-0003	EA			6" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	88.87	23.92
33 42 26 19-0004	EA			8" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	120.70	29.90
33 42 26 19-0005	EA			10" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	190.09	47.84
33 42 26 19-0006	EA			12" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	225.78	53.82
33 42 26 19-0007	EA			15" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	239.65	57.81
33 42 26 19-0008	EA			18" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	285.56	63.79
33 42 26 19-0009	EA			24" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	369.03	75.75
33 42 26 19-0010	EA			30" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	761.84	85.71
33 42 26 19-0011	EA			36" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	929.38	95.68
33 42 26 23				Concrete End Sections for Stormwater Piping <small>(33 42 26)</small>		
33 42 26 23-0001				Precast Concrete End Sections <small>(33 42 26 23)</small>		
33 42 26 23-0002				Precast Concrete End Sections <small>(33 42 26 23-0001)</small>		
33 42 26 23-0003	EA			12" Diameter Pipe, Precast Concrete End Section	475.45	91.39
33 42 26 23-0004	EA			15" Diameter Pipe, Precast Concrete End Section	635.81	113.14
33 42 26 23-0005	EA			18" Diameter Pipe, Precast Concrete End Section	788.05	143.21
33 42 26 23-0006	EA			21" Diameter Pipe, Precast Concrete End Section	906.11	171.26
33 42 26 23-0007	EA			24" Diameter Pipe, Precast Concrete End Section	967.18	198.22
33 42 26 23-0008	EA			27" Diameter Pipe, Precast Concrete End Section	1,219.55	246.39
33 42 26 23-0009	EA			30" Diameter Pipe, Precast Concrete End Section	1,521.13	370.09
33 42 26 23-0010	EA			36" Diameter Pipe, Precast Concrete End Section	1,880.65	466.98
33 42 26 23-0011	EA			42" Diameter Pipe, Precast Concrete End Section	2,280.55	585.80
33 42 26 23-0012	EA			48" Diameter Pipe, Precast Concrete End Section	2,504.13	660.62
33 42 26 23-0013	EA			54" Diameter Pipe, Precast Concrete End Section	2,736.21	740.00
33 42 26 23-0014	EA			60" Diameter Pipe, Precast Concrete End Section	2,974.35	822.68
33 42 26 23-0015	EA			66" Diameter Pipe Precast Concrete End Section	2,929.59	664.23
33 42 26 23-0016	EA			72" Diameter Pipe Precast Concrete End Section	3,373.21	830.27
33 42 26 23-0017	EA			78" Diameter Pipe Precast Concrete End Section	4,023.59	1,037.83
33 42 26 23-0018	EA			84" Diameter Pipe Precast Concrete End Section	4,765.45	1,245.40
33 42 26 23-0019				Flared Precast Concrete End Sections <small>(33 42 26 23-0001)</small>		
33 42 26 23-0020	EA			12" Diameter Pipe, Flared Precast Concrete End Section	592.63	96.32
33 42 26 23-0021	EA			15" Diameter Pipe, Flared Precast Concrete End Section	714.49	120.05
33 42 26 23-0022	EA			18" Diameter Pipe, Flared Precast Concrete End Section	869.00	151.97
33 42 26 23-0023	EA			21" Diameter Pipe, Flared Precast Concrete End Section	995.01	181.73
33 42 26 23-0024	EA			24" Diameter Pipe, Flared Precast Concrete End Section	1,211.27	210.34
33 42 26 23-0025	EA			27" Diameter Pipe, Flared Precast Concrete End Section	1,481.48	335.94
33 42 26 23-0026	EA			30" Diameter Pipe, Flared Precast Concrete End Section	1,569.87	462.52
33 42 26 23-0027	EA			36" Diameter Pipe, Flared Precast Concrete End Section	2,110.65	583.73
33 42 26 23-0028	EA			42" Diameter Pipe, Flared Precast Concrete End Section	2,540.80	732.39
33 42 26 23-0029	EA			48" Diameter Pipe, Flared Precast Concrete End Section	2,757.72	825.99
33 42 26 23-0030	EA			54" Diameter Pipe, Flared Precast Concrete End Section	3,084.86	925.12
33 42 26 23-0031	EA			60" Diameter Pipe, Flared Precast Concrete End Section	3,418.62	1,027.57
33 42 26 23-0032	EA			66" Diameter Pipe, Flared Precast Concrete End Section	3,983.63	1,183.91
33 42 26 23-0033	EA			72" Diameter Pipe, Flared Precast Concrete End Section	4,631.42	1,321.42
33 42 26 23-0034	EA			78" Diameter Pipe, Flared Precast Concrete End Section	5,248.86	1,486.53
33 42 26 23-0035	EA			84" Diameter Pipe, Flared Precast Concrete End Section	6,038.88	1,651.48
33 42 31				Stormwater Area Drains and Inlets <small>(33 42)</small>		
33 42 31 00-0001				Storm Drains <small>(33 42 31)</small>		
				See CSI section 33 05 61 00-0001 for manhole structures.		
33 42 31 00-0002				Catch Basins And Inlet Basins <small>(33 42 31 00-0001)</small>		
				Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.		
33 42 31 00-0003				Cast In Place, Grate Drop Inlet Basins <small>(33 42 31 00-0002)</small>		
				Note: Inside dimensions.		
33 42 31 00-0004				3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins <small>(33 42 31 00-0003)</small>		
33 42 31 00-0005	EA			2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,462.84	268.69
33 42 31 00-0006	EA			3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,748.06	314.81
33 42 31 00-0007	EA			4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,033.28	360.86
33 42 31 00-0008	EA			5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,318.50	406.99
33 42 31 00-0009	EA			6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,603.71	453.04
33 42 31 00-0010				3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins <small>(33 42 31 00-0003)</small>		
33 42 31 00-0011	EA			2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,891.04	267.06

33	Utilities
33 40	Stormwater Utilities
33 42	Stormwater Conveyance



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0012 EA 3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,337.60	356.08
33 42 31 00-0013 EA 4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,980.28	485.57
33 42 31 00-0014 EA 5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	3,633.35	566.50
33 42 31 00-0015 EA 6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	4,144.30	647.44
33 42 31 00-0016 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0017 EA 2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,033.21	291.34
33 42 31 00-0018 EA 3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,817.06	404.64
33 42 31 00-0019 EA 4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,436.92	526.03
33 42 31 00-0020 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,968.77	606.96
33 42 31 00-0021 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,032.82	776.92
33 42 31 00-0022 Cast In Place, Catch Basin (33 42 31 00-0002)		
Note: Inside span, overall depth. Includes concrete, forms, rebar (where required), finish and curing.		
33 42 31 00-0023 3' x 3', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0024 EA 3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	1,789.89	324.84
33 42 31 00-0025 EA 3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	1,897.71	345.41
33 42 31 00-0026 EA 4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,074.27	370.98
33 42 31 00-0027 EA 4'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,335.73	410.63
33 42 31 00-0028 EA 5' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,520.29	437.09
33 42 31 00-0029 EA 5'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,638.63	458.38
33 42 31 00-0030 EA 6' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,823.34	484.85
33 42 31 00-0031 EA 6'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,938.93	506.21
33 42 31 00-0032 EA 7' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,124.83	532.59
33 42 31 00-0033 EA 7'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,241.99	553.96
33 42 31 00-0034 EA 8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,426.62	580.42
33 42 31 00-0035 VLF >8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	428.35	72.51
33 42 31 00-0036 3'-6" x 3'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0037 EA 3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,058.52	375.51
33 42 31 00-0038 EA 3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,195.11	401.90
33 42 31 00-0039 EA 4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,379.00	428.36
33 42 31 00-0040 EA 4'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	2,684.54	474.40
33 42 31 00-0041 EA 5' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	2,887.28	504.35
33 42 31 00-0042 EA 5'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,023.65	529.20
33 42 31 00-0043 EA 6' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,228.99	559.14
33 42 31 00-0044 EA 6'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,365.36	583.98
33 42 31 00-0045 EA 7' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,569.20	613.92
33 42 31 00-0046 EA 7'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,705.87	638.77
33 42 31 00-0047 EA 8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,909.80	668.72
33 42 31 00-0048 VLF >8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	488.75	83.60
33 42 31 00-0049 4' x 4', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0050 EA 3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	2,346.04	429.57
33 42 31 00-0051 EA 3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	2,489.97	456.84
33 42 31 00-0052 EA 4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	2,701.46	489.13
33 42 31 00-0053 EA 4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,051.55	541.66
33 42 31 00-0054 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,274.99	575.08
33 42 31 00-0055 EA 5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,430.79	603.49
33 42 31 00-0056 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,654.23	636.91
33 42 31 00-0057 EA 6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,809.74	665.31
33 42 31 00-0058 EA 7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,033.18	698.74
33 42 31 00-0059 EA 7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,188.99	727.14
33 42 31 00-0060 EA 8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,412.42	760.65
33 42 31 00-0061 VLF >8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	551.52	95.09
33 42 31 00-0062 4'-6" x 4'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0063 EA 3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,708.97	498.12
33 42 31 00-0064 EA 3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,876.85	526.28
33 42 31 00-0065 EA 4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,110.89	562.70
33 42 31 00-0066 EA 4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,510.27	622.43
33 42 31 00-0067 EA 5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,758.22	660.14
33 42 31 00-0068 EA 5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,938.63	692.75
33 42 31 00-0069 EA 6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,186.88	730.47
33 42 31 00-0070 EA 6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,367.27	763.16
33 42 31 00-0071 EA 7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,615.23	800.87
33 42 31 00-0072 EA 7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,794.44	833.49
33 42 31 00-0073 EA 8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,043.89	871.20
33 42 31 00-0074 VLF >8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	630.53	108.93
33 42 31 00-0075 5' x 5', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0076 EA 4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin	3,482.01	631.81
33 42 31 00-0077 EA 4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	3,926.84	698.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0078 EA 5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,195.81	739.53
33 42 31 00-0079 EA 5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,396.05	775.79
33 42 31 00-0080 EA 6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,662.36	817.05
33 42 31 00-0081 EA 6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,863.79	853.31
33 42 31 00-0082 EA 7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,131.58	894.67
33 42 31 00-0083 EA 7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,330.33	930.92
33 42 31 00-0084 EA 8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,599.31	972.20
33 42 31 00-0085 VLF >8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	989.79	121.55
33 42 31 00-0086 5'-6" x 5'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0087 EA 4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,870.95	704.57
33 42 31 00-0088 EA 4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,506.28	797.56
33 42 31 00-0089 EA 5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,803.80	843.53
33 42 31 00-0090 EA 5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,032.58	884.71
33 42 31 00-0091 EA 6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,331.59	931.00
33 42 31 00-0092 EA 6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,561.56	972.20
33 42 31 00-0093 EA 7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,859.09	1,018.49
33 42 31 00-0094 EA 7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,087.87	1,059.68
33 42 31 00-0095 EA 8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,385.41	1,105.97
33 42 31 00-0096 VLF >8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	798.18	138.23
33 42 31 00-0097 6' x 6', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0098 EA 4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin	4,280.61	780.72
33 42 31 00-0099 EA 4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	4,980.69	882.77
33 42 31 00-0100 EA 5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	5,299.74	932.79
33 42 31 00-0101 EA 5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	5,549.73	977.70
33 42 31 00-0102 EA 6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	5,867.58	1,027.72
33 42 31 00-0103 EA 6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,119.07	1,072.63
33 42 31 00-0104 EA 7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,436.63	1,122.65
33 42 31 00-0105 EA 7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,686.91	1,167.56
33 42 31 00-0106 EA 8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,005.95	1,217.58
33 42 31 00-0107 VLF >8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	875.78	152.23
33 42 31 00-0108 6'-6" x 6'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0109 EA 4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,708.27	860.51
33 42 31 00-0110 EA 4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,657.40	996.96
33 42 31 00-0111 EA 5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,007.72	1,052.32
33 42 31 00-0112 EA 5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,290.39	1,102.58
33 42 31 00-0113 EA 6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,640.70	1,157.84
33 42 31 00-0114 EA 6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,923.39	1,208.18
33 42 31 00-0115 EA 7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,273.70	1,263.46
33 42 31 00-0116 EA 7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,556.38	1,313.72
33 42 31 00-0117 EA 8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,908.18	1,369.07
33 42 31 00-0118 VLF >8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	988.48	171.16
33 42 31 00-0119 7' x 7', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0120 EA 4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin	5,155.32	943.79
33 42 31 00-0121 EA 4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	6,193.99	1,092.70
33 42 31 00-0122 EA 5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	6,566.31	1,151.94
33 42 31 00-0123 EA 5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	6,869.59	1,206.00
33 42 31 00-0124 EA 6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	7,243.01	1,265.16
33 42 31 00-0125 EA 6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	7,546.29	1,319.30
33 42 31 00-0126 EA 7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	7,918.59	1,378.46
33 42 31 00-0127 EA 7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,223.07	1,432.60
33 42 31 00-0128 EA 8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,595.29	1,491.76
33 42 31 00-0129 VLF >8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	1,074.45	186.46
33 42 31 00-0130 7'-6" x 7'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0131 EA 4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,829.57	1,059.28
33 42 31 00-0132 EA 4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,752.66	1,192.33
33 42 31 00-0133 EA 5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,145.50	1,255.37
33 42 31 00-0134 EA 5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,471.96	1,313.31
33 42 31 00-0135 EA 6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,865.91	1,376.36
33 42 31 00-0136 EA 6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,192.37	1,434.30
33 42 31 00-0137 EA 7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,585.20	1,497.34
33 42 31 00-0138 EA 7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,911.66	1,555.29
33 42 31 00-0139 EA 8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,305.68	1,618.33
33 42 31 00-0140 VLF >8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,163.17	202.32
33 42 31 00-0141 8' x 8', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0142 EA 4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin	6,334.98	1,152.51
33 42 31 00-0143 EA 4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	7,331.77	1,295.83
33 42 31 00-0144 EA 5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	7,746.39	1,362.68
33 42 31 00-0145 EA 5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	8,094.84	1,424.51

33	Utilities
33 40	Stormwater Utilities
33 42	Stormwater Conveyance



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0146 EA 6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	8,509.39	1,491.35
33 42 31 00-0147 EA 6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	8,855.46	1,553.19
33 42 31 00-0148 EA 7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,272.38	1,620.04
33 42 31 00-0149 EA 7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,620.84	1,681.86
33 42 31 00-0150 EA 8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,028.18	1,748.71
33 42 31 00-0151 VLF >8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	1,254.42	218.59
33 42 31 00-0152 Precast Concrete Catch Basins (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0153 1'-6" Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0154 EA 4' Deep, 1'-6" Diameter Precast Catch Basins	564.35	168.88
33 42 31 00-0155 EA 6' Deep, 1'-6" Diameter Precast Catch Basins	782.09	253.32
33 42 31 00-0156 EA 8' Deep, 1'-6" Diameter Precast Catch Basins	988.62	329.32
33 42 31 00-0157 EA 10' Deep, 1'-6" Diameter Precast Catch Basins	1,185.35	389.27
33 42 31 00-0158 EA 12' Deep, 1'-6" Diameter Precast Catch Basins	1,457.23	493.97
33 42 31 00-0159 EA 14' Deep, 1'-6" Diameter Precast Catch Basins	1,666.20	569.97
33 42 31 00-0160 VLF Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins	115.81	38.00
33 42 31 00-0161 2' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0162 EA 4' Deep, 2' Diameter Precast Catch Basin	643.80	187.88
33 42 31 00-0163 EA 6' Deep, 2' Diameter Precast Catch Basin	887.25	278.65
33 42 31 00-0164 EA 8' Deep, 2' Diameter Precast Catch Basin	1,117.25	367.32
33 42 31 00-0165 EA 10' Deep, 2' Diameter Precast Catch Basin	1,335.48	428.54
33 42 31 00-0166 EA 12' Deep, 2' Diameter Precast Catch Basin	1,651.32	548.86
33 42 31 00-0167 EA 14' Deep, 2' Diameter Precast Catch Basin	1,885.77	633.30
33 42 31 00-0168 VLF Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin	131.09	45.60
33 42 31 00-0169 3' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0170 EA 4' Deep, 3' Diameter Precast Catch Basin	854.65	221.66
33 42 31 00-0171 EA 6' Deep, 3' Diameter Precast Catch Basin	1,161.84	327.63
33 42 31 00-0172 EA 8' Deep, 3' Diameter Precast Catch Basin	1,455.68	432.75
33 42 31 00-0173 EA 10' Deep, 3' Diameter Precast Catch Basin	1,812.98	540.42
33 42 31 00-0174 EA 12' Deep, 3' Diameter Precast Catch Basin	2,140.10	644.28
33 42 31 00-0175 EA 14' Deep, 3' Diameter Precast Catch Basin	2,455.18	749.82
33 42 31 00-0176 VLF Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin	168.54	53.55
33 42 31 00-0177 4' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0178 EA 4' Deep, 4' Diameter Precast Catch Basin	1,037.86	246.57
33 42 31 00-0179 EA 6' Deep, 4' Diameter Precast Catch Basin	1,346.67	337.76
33 42 31 00-0180 EA 8' Deep, 4' Diameter Precast Catch Basin	1,793.34	506.64
33 42 31 00-0181 EA 10' Deep, 4' Diameter Precast Catch Basin	2,237.76	633.30
33 42 31 00-0182 EA 12' Deep, 4' Diameter Precast Catch Basin	2,643.23	759.96
33 42 31 00-0183 EA 14' Deep, 4' Diameter Precast Catch Basin	3,035.00	886.62
33 42 31 00-0184 VLF Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin	207.81	63.33
33 42 31 00-0185 5' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0186 EA 4' Deep, 5' Diameter Precast Catch Basin	1,396.15	337.76
33 42 31 00-0187 EA 6' Deep, 5' Diameter Precast Catch Basin	1,903.30	506.64
33 42 31 00-0188 EA 8' Deep, 5' Diameter Precast Catch Basin	2,412.94	675.52
33 42 31 00-0189 EA 10' Deep, 5' Diameter Precast Catch Basin	2,948.11	844.40
33 42 31 00-0190 EA 12' Deep, 5' Diameter Precast Catch Basin	3,474.78	1,013.28
33 42 31 00-0191 EA 14' Deep, 5' Diameter Precast Catch Basin	4,042.59	1,182.16
33 42 31 00-0192 VLF Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin	276.47	84.44
33 42 31 00-0193 6' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0194 EA 4' Deep, 6' Diameter Precast Catch Basin	2,040.74	506.64
33 42 31 00-0195 EA 6' Deep, 6' Diameter Precast Catch Basin	2,753.19	759.96
33 42 31 00-0196 EA 8' Deep, 6' Diameter Precast Catch Basin	3,517.22	1,013.28
33 42 31 00-0197 EA 10' Deep, 6' Diameter Precast Catch Basin	4,382.76	1,266.60
33 42 31 00-0198 EA 12' Deep, 6' Diameter Precast Catch Basin	5,220.84	1,519.92
33 42 31 00-0199 EA 14' Deep, 6' Diameter Precast Catch Basin	6,038.02	1,773.23
33 42 31 00-0200 VLF Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin	411.97	126.66
33 42 31 00-0201 Precast Catch Basins Accessories (33 42 31 00-0152)		
33 42 31 00-0202 EA Single Or Double Wing Slab Top With Throat	1,186.07	548.86
33 42 31 00-0203 EA 4' x 4' Weir Box, Precast Catch Basin	579.01	67.55
33 42 31 00-0204 EA 4' Diameter Inlet Round To Square Adapter, Precast Catch Basin	319.15	71.78
33 42 31 00-0205 EA 3' Diameter, Up To 6" High, Precast Extension Ring	395.29	105.55
For Each Additional Inch In Height, Add	48.28	
33 42 31 00-0206 EA 4' Diameter, Up To 6" High, Precast Extension Ring	465.88	126.66
For Each Additional Inch In Height, Add	56.52	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0207 EA 5' Diameter, Up To 6" High, Precast Extension Ring <i>For Each Additional Inch In Height, Add</i>	543.44 65.97	147.77
33 42 31 00-0208 EA 6' Diameter, Up To 6" High, Precast Extension Ring <i>For Each Additional Inch In Height, Add</i>	675.49 77.43	211.10
33 42 31 00-0209 EA Adjust Existing Catch Basin Inlet Grate To Match Grade	506.61	
33 42 31 00-0210 Catch Basins Risers (33 42 31 00-0152)		
33 42 31 00-0211 EA Up To 860 Square Inch, Up To 2" Rise, Catch Basin Riser	262.80	
33 42 31 00-0212 EA >860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	290.20	
33 42 31 00-0213 EA >1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	322.65	
33 42 31 00-0214 EA Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser	282.50	
33 42 31 00-0215 EA >860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	311.73	
33 42 31 00-0216 EA >1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	347.67	
33 42 31 00-0217 EA Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser	311.00	
33 42 31 00-0218 EA >860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	337.09	
33 42 31 00-0219 EA >1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	373.21	
33 42 31 00-0220 Cast In Place, Storm Drain Cleanout (33 42 31 00-0002)		
Note: Inside span.		
33 42 31 00-0221 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	3,766.11	640.79
33 42 31 00-0222 EA 6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	4,291.34	731.27
33 42 31 00-0223 EA 6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	4,877.56	829.92
33 42 31 00-0224 EA 7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	5,854.12	995.59
33 42 31 00-0225 EA 8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	7,102.11	1,201.95
33 42 31 00-0226 Precast Concrete Inlet Boxes (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0227 Precast Concrete Inlet Boxes (33 42 31 00-0226)		
33 42 31 00-0228 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
Note: Yard inlet.		
33 42 31 00-0229 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0228)		
33 42 31 00-0230 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	535.75	59.11
33 42 31 00-0231 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	630.68	71.78
33 42 31 00-0232 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	725.60	84.44
33 42 31 00-0233 EA 42" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	821.57	97.63
33 42 31 00-0234 24" x 24" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0228)		
33 42 31 00-0235 EA 6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	141.37	
33 42 31 00-0236 EA 12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	223.62	
33 42 31 00-0237 EA 18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	314.32	
33 42 31 00-0238 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	405.02	
33 42 31 00-0239 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	495.72	
33 42 31 00-0240 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	586.42	
33 42 31 00-0241 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0242 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0241)		
33 42 31 00-0243 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,113.18	165.37
33 42 31 00-0244 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,254.04	191.20
33 42 31 00-0245 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,394.89	217.04
33 42 31 00-0246 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,535.86	242.94
33 42 31 00-0247 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,676.84	268.84
33 42 31 00-0248 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,817.82	294.74
33 42 31 00-0249 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,958.79	320.64
33 42 31 00-0250 22" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0241)		
33 42 31 00-0251 EA 6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	277.31	
33 42 31 00-0252 EA 12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	436.39	
33 42 31 00-0253 EA 18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	478.62	
33 42 31 00-0254 EA 24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	610.02	
33 42 31 00-0255 EA 30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	741.42	
33 42 31 00-0256 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	865.77	
33 42 31 00-0257 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,006.62	
33 42 31 00-0258 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,147.48	
33 42 31 00-0259 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,288.46	
33 42 31 00-0260 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,429.43	
33 42 31 00-0261 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,570.40	
33 42 31 00-0262 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,711.38	
33 42 31 00-0263 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0264 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0263)		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 42 31 00-0265	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,081.11	181.90
	33 42 31 00-0266	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,223.07	210.32
	33 42 31 00-0267	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,365.04	238.75
	33 42 31 00-0268	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,507.13	267.24
	33 42 31 00-0269	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,649.23	295.73
	33 42 31 00-0270	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,791.34	324.21
	33 42 31 00-0271	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,933.44	352.70
33 42 31 00-0272			30" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0263)		
	33 42 31 00-0273	EA	6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	275.68	
	33 42 31 00-0274	EA	12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	428.99	
	33 42 31 00-0275	EA	18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	471.99	
	33 42 31 00-0276	EA	24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	600.92	
	33 42 31 00-0277	EA	30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	729.87	
	33 42 31 00-0278	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	857.98	
	33 42 31 00-0279	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	997.67	
	33 42 31 00-0280	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,136.53	
	33 42 31 00-0281	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,276.23	
	33 42 31 00-0282	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,415.09	
	33 42 31 00-0283	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,554.78	
	33 42 31 00-0284	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,694.47	
33 42 31 00-0285			42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0286			42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0285)		
	33 42 31 00-0287	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,279.76	198.43
	33 42 31 00-0288	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,446.25	230.68
	33 42 31 00-0289	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,612.73	263.75
	33 42 31 00-0290	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,778.40	296.00
	33 42 31 00-0291	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,944.88	329.07
	33 42 31 00-0292	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,111.37	361.32
	33 42 31 00-0293	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,277.04	393.56
33 42 31 00-0294			42" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0285)		
	33 42 31 00-0295	EA	6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	302.24	
	33 42 31 00-0296	EA	12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	480.44	
	33 42 31 00-0297	EA	18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	524.68	
	33 42 31 00-0298	EA	24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	670.09	
	33 42 31 00-0299	EA	30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	815.49	
	33 42 31 00-0300	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	960.90	
	33 42 31 00-0301	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,117.46	
	33 42 31 00-0302	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,274.03	
	33 42 31 00-0303	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,430.59	
	33 42 31 00-0304	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,587.17	
	33 42 31 00-0305	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,743.73	
	33 42 31 00-0306	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,900.30	
33 42 31 00-0307			42" x 48" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0285)		
	33 42 31 00-0308	EA	42" x 48" ID, Precast Concrete Inlet Box Top Slab.....	729.88	124.02
33 42 31 00-0309			48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0310			48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0309)		
	33 42 31 00-0311	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	1,795.09	220.49
	33 42 31 00-0312	EA	42" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,015.10	256.73
	33 42 31 00-0313	EA	48" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,235.11	292.96
	33 42 31 00-0314	EA	54" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,454.86	329.07
	33 42 31 00-0315	EA	60" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,674.61	365.18
	33 42 31 00-0316	EA	66" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,894.35	401.29
	33 42 31 00-0317	EA	72" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,114.10	437.40
33 42 31 00-0318			48" x 54" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0309)		
	33 42 31 00-0319	EA	6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	304.63	
	33 42 31 00-0320	EA	12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	474.20	
	33 42 31 00-0321	EA	18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	690.63	
	33 42 31 00-0322	EA	24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	907.06	
	33 42 31 00-0323	EA	30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,109.72	
	33 42 31 00-0324	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,326.15	
	33 42 31 00-0325	EA	42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,546.16	
	33 42 31 00-0326	EA	48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,766.17	
	33 42 31 00-0327	EA	54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,985.92	
	33 42 31 00-0328	EA	60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,205.67	
	33 42 31 00-0329	EA	66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,425.41	
	33 42 31 00-0330	EA	72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,645.16	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0331 48" x 54" ID, Precast Concrete Inlet Box Tops <small>(33 42 31 00-0309)</small>		
33 42 31 00-0332 EA 48" x 54" ID, Precast Concrete Inlet Box Top Slab.....	792.83	134.36
33 42 31 00-0333 48" x 66" ID, Precast Concrete Inlet Boxes <small>(33 42 31 00-0227)</small>		
33 42 31 00-0334 48" x 66" ID, Precast Concrete Inlet Boxes <small>(33 42 31 00-0333)</small>		
33 42 31 00-0335 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	2,047.73	277.81
33 42 31 00-0336 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	2,291.85	324.23
33 42 31 00-0337 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	2,535.98	370.64
33 42 31 00-0338 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	2,779.60	416.80
33 42 31 00-0339 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,023.21	462.96
33 42 31 00-0340 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,266.82	509.11
33 42 31 00-0341 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,510.44	555.28
33 42 31 00-0342 48" x 66" ID, Precast Concrete Inlet Box Risers <small>(33 42 31 00-0333)</small>		
33 42 31 00-0343 EA 6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	336.50	
33 42 31 00-0344 EA 12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	510.95	
33 42 31 00-0345 EA 18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	754.84	
33 42 31 00-0346 EA 24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	998.74	
33 42 31 00-0347 EA 30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,219.49	
33 42 31 00-0348 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,463.39	
33 42 31 00-0349 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,707.51	
33 42 31 00-0350 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,951.64	
33 42 31 00-0351 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,195.26	
33 42 31 00-0352 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,438.87	
33 42 31 00-0353 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,682.48	
33 42 31 00-0354 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,926.10	
33 42 31 00-0355 48" x 66" ID, Precast Concrete Inlet Box Tops <small>(33 42 31 00-0333)</small>		
33 42 31 00-0356 EA 48" x 66" ID, Precast Concrete Inlet Box Top Slab.....	882.14	150.48
33 42 31 00-0357 42" x 102" ID, Precast Concrete Inlet Boxes <small>(33 42 31 00-0227)</small>		
33 42 31 00-0358 42" x 102" ID, Precast Concrete Inlet Boxes <small>(33 42 31 00-0357)</small>		
33 42 31 00-0359 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	2,610.89	374.55
33 42 31 00-0360 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	2,920.75	436.56
33 42 31 00-0361 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	3,230.63	497.75
33 42 31 00-0362 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	3,539.68	559.76
33 42 31 00-0363 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	3,849.55	620.94
33 42 31 00-0364 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,158.58	682.12
33 42 31 00-0365 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,469.28	744.13
33 42 31 00-0366 42" x 102" ID, Precast Concrete Inlet Box Risers <small>(33 42 31 00-0357)</small>		
33 42 31 00-0367 EA 6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	453.74	
33 42 31 00-0368 EA 12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	677.62	
33 42 31 00-0369 EA 18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	981.70	
33 42 31 00-0370 EA 24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,285.78	
33 42 31 00-0371 EA 30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,565.90	
33 42 31 00-0372 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,869.97	
33 42 31 00-0373 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,179.83	
33 42 31 00-0374 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,489.71	
33 42 31 00-0375 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,798.76	
33 42 31 00-0376 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	3,108.63	
33 42 31 00-0377 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	3,417.66	
33 42 31 00-0378 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	3,727.54	
33 42 31 00-0379 42" x 102" ID, Precast Concrete Inlet Box Tops <small>(33 42 31 00-0357)</small>		
33 42 31 00-0380 EA 42" x 102" ID, Precast Concrete Inlet Box Top Slab.....	1,189.60	165.37
33 42 31 00-0381 Frames And Grates For Inlets <small>(33 42 31 00-0226)</small>		
33 42 31 00-0382 Inlet Frames And Grates <small>(33 42 31 00-0381)</small>		
33 42 31 00-0383 EA 24" x 24", Heavy Duty Inlet Grate.....	249.24	38.96
Note: For type A, B, D, or E inlets.		
33 42 31 00-0384 EA 47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT).....	317.66	38.96
Note: For type A, B, D, or E inlets.		
33 42 31 00-0385 EA 47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT).....	317.66	38.96
Note: Includes legend: Dump No Waste "Drains To Waterways".		
33 42 31 00-0386 EA Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT).....	317.66	38.96
Note: Legend: Dump No Waste "Drains To Waterways"		
33 42 31 00-0387 EA Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362).....	346.21	38.96
33 42 31 00-0388 EA Type B Inlet Dirt Plate (US Foundry 5217 BK).....	281.42	77.91

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0389 EA Back Plate For Type B Inlets (Campbell Foundry 2548-1942).....	321.38	77.91
33 42 31 00-0390 EA Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4)	400.29	97.40
Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways".		
33 42 31 00-0391 EA 1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	348.92	97.40
33 42 31 00-0392 EA 2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	354.63	97.40
33 42 31 00-0393 EA 2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	366.04	97.40
33 42 31 00-0394 EA 3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	377.46	97.40
33 42 31 00-0395 EA 2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	366.04	97.40
33 42 31 00-0396 EA 2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	377.46	97.40
33 42 31 00-0397 EA 3" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	388.88	97.40
33 42 31 00-0398 EA 2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	537.30	97.40
33 42 31 00-0399 EA 2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	560.13	97.40
33 42 31 00-0400 EA 3" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	582.96	97.40
33 42 31 00-0401 EA 2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701).....	411.71	97.40
33 42 31 00-0402 EA 6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6).....	377.46	97.40
33 42 31 00-0403 EA 8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8).....	377.46	97.40
33 42 31 00-0404 EA 6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6).....	719.88	97.40
33 42 31 00-0405 EA 8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8).....	719.88	97.40
33 42 31 00-0406 EA Safety Bars For Type B And D Inlets (General Foundries 5218 SB).....	328.43	107.14
33 42 31 00-0407 EA 6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648).....	436.89	107.14
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.		
33 42 31 00-0408 EA 8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848).....	436.89	107.14
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.		
33 42 31 00-0409 EA 10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048).....	476.85	107.14
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.		
33 42 31 00-0410 EA Type B Inlet Frame (US Foundry 5216 FRM).....	539.64	107.14
33 42 31 00-0411 EA Type D Inlet Frame (US Foundry 2999 FRM).....	471.14	107.14
33 42 31 00-0412 EA Type B Inlet Frame (Campbell Foundry 2618-0202).....	648.10	107.14
33 42 31 00-0413 EA Type D Inlet Frame (Campbell Foundry 2617-0002).....	579.60	107.14
33 42 31 00-0414 EA Type A Inlet, Single Frame And Grate (US Foundry 52340).....	756.92	155.83
33 42 31 00-0415 EA Type E Inlet, Single Frame And Grate (US Foundry 52342).....	1,167.93	155.83
33 42 31 00-0416 EA Type A Inlet, Single Frame And Grate (General Foundries 52340).....	739.79	155.83
33 42 31 00-0417 EA Type E Inlet, Double Frame And Grate (General Foundries 52342).....	1,114.27	155.83
33 42 31 00-0418 EA Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340).....	1,226.71	233.74
33 42 31 00-0419 EA Heavy Duty Rectangular Frame And Grate (Campbell Foundry 3084).....	1,294.96	311.66
33 42 31 00-0420 EA 6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186).....	1,405.39	311.66
33 42 31 00-0421 EA 8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198).....	1,405.39	311.66
33 42 31 00-0422 EA 6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266).....	1,262.68	311.66
33 42 31 00-0423 EA 8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268).....	1,262.68	311.66
33 42 31 00-0424 EA Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GFI 52198).....	1,451.06	311.66
33 42 31 00-0425 Concrete Drainage Inlet Structures (CALTRANS) (33 42 31 00-0001)		
33 42 31 00-0426 Type OS Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0427 EA 3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	2,256.45	
33 42 31 00-0428 EA 4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	2,622.90	
33 42 31 00-0429 EA 5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	2,963.69	
33 42 31 00-0430 EA 6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,278.83	
33 42 31 00-0431 EA 7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,568.30	
33 42 31 00-0432 EA 8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,832.10	
33 42 31 00-0433 EA 8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	5,214.41	
33 42 31 00-0434 EA 10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	6,080.77	
33 42 31 00-0435 EA 12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	6,881.28	
33 42 31 00-0436 EA 14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,617.62	
33 42 31 00-0437 EA 16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,328.77	
33 42 31 00-0438 EA 18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,984.04	
33 42 31 00-0439 EA 20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,583.42	
33 42 31 00-0440 Type OL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0441 EA 3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,072.60	
33 42 31 00-0442 EA 4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,415.60	
33 42 31 00-0443 EA 5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,732.93	
33 42 31 00-0444 EA 6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,024.60	
33 42 31 00-0445 EA 7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,289.76	
33 42 31 00-0446 EA 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,530.10	
33 42 31 00-0447 EA 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	5,871.34	
33 42 31 00-0448 EA 10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	6,717.66	
33 42 31 00-0449 EA 12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,498.11	
33 42 31 00-0450 EA 14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,213.56	
33 42 31 00-0451 EA 16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,907.50	
33 42 31 00-0452 EA 18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,545.54	
33 42 31 00-0453 EA 20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,127.69	
33 42 31 00-0454 Type OL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0455 EA 3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,824.75	
33 42 31 00-0456 EA 4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,146.31	
33 42 31 00-0457 EA 5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,441.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0458 EA 6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,711.57	
33 42 31 00-0459 EA 7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,955.29	
33 42 31 00-0460 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,173.34	
33 42 31 00-0461 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,528.27	
33 42 31 00-0462 EA 10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,353.70	
33 42 31 00-0463 EA 12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,114.95	
33 42 31 00-0464 EA 14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,810.35	
33 42 31 00-0465 EA 16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,486.23	
33 42 31 00-0466 EA 18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,107.05	
33 42 31 00-0467 EA 20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,671.13	
33 42 31 00-0468 Type OL-14 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0469 EA 3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,896.96	
33 42 31 00-0470 EA 4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,186.96	
33 42 31 00-0471 EA 5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,451.30	
33 42 31 00-0472 EA 6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,689.97	
33 42 31 00-0473 EA 7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,902.97	
33 42 31 00-0474 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,090.31	
33 42 31 00-0475 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,458.92	
33 42 31 00-0476 EA 10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,255.89	
33 42 31 00-0477 EA 12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,987.82	
33 42 31 00-0478 EA 14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,654.74	
33 42 31 00-0479 EA 16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,307.00	
33 42 31 00-0480 EA 18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,902.50	
33 42 31 00-0481 EA 20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,442.13	
33 42 31 00-0482 Type OL-21 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0483 EA 3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,073.39	
33 42 31 00-0484 EA 4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,300.53	
33 42 31 00-0485 EA 5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,502.01	
33 42 31 00-0486 EA 6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,677.83	
33 42 31 00-0487 EA 7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,827.14	
33 42 31 00-0488 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,951.63	
33 42 31 00-0489 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,279.17	
33 42 31 00-0490 EA 10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,020.07	
33 42 31 00-0491 EA 12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,695.94	
33 42 31 00-0492 EA 14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,306.82	
33 42 31 00-0493 EA 16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,910.84	
33 42 31 00-0494 EA 18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,458.12	
33 42 31 00-0495 EA 20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,949.52	
33 42 31 00-0496 Type GOL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0497 EA 3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,728.73	
33 42 31 00-0498 EA 4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,107.45	
33 42 31 00-0499 EA 5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,456.77	
33 42 31 00-0500 EA 6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,776.66	
33 42 31 00-0501 EA 7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,067.98	
33 42 31 00-0502 EA 8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,330.74	
33 42 31 00-0503 EA 8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,788.30	
33 42 31 00-0504 EA 10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,730.97	
33 42 31 00-0505 EA 12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,600.56	
33 42 31 00-0506 EA 14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,396.22	
33 42 31 00-0507 EA 16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,169.30	
33 42 31 00-0508 EA 18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,879.53	
33 42 31 00-0509 EA 20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,526.06	
33 42 31 00-0510 Type GOL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0511 EA 3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,544.89	
33 42 31 00-0512 EA 4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,899.31	
33 42 31 00-0513 EA 5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,225.16	
33 42 31 00-0514 EA 6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,522.43	
33 42 31 00-0515 EA 7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,790.28	
33 42 31 00-0516 EA 8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,028.72	
33 42 31 00-0517 EA 8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,486.30	
33 42 31 00-0518 EA 10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,407.20	
33 42 31 00-0519 EA 12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,255.00	
33 42 31 00-0520 EA 14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,029.73	
33 42 31 00-0521 EA 16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,784.03	
33 42 31 00-0522 EA 18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,475.50	
33 42 31 00-0523 EA 20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,104.09	
33 42 31 00-0524 Type G-1 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0525 EA 3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,520.30	
33 42 31 00-0526 EA 4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,818.49	
33 42 31 00-0527 EA 5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,095.27	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 42 31 00-0528	EA	6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,352.34	
	33 42 31 00-0529	EA	7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,589.69	
	33 42 31 00-0530	EA	8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,805.65	
33 42 31 00-0531	Type G-2 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
	33 42 31 00-0532	EA	3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,096.41	
	33 42 31 00-0533	EA	4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,431.80	
	33 42 31 00-0534	EA	5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,743.72	
	33 42 31 00-0535	EA	6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,032.17	
	33 42 31 00-0536	EA	7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,297.18	
	33 42 31 00-0537	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,537.86	
	33 42 31 00-0538	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	4,790.14	
	33 42 31 00-0539	EA	10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,589.51	
	33 42 31 00-0540	EA	12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,329.08	
	33 42 31 00-0541	EA	14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,008.87	
	33 42 31 00-0542	EA	16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,665.46	
	33 42 31 00-0543	EA	18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,270.67	
	33 42 31 00-0544	EA	20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,823.67	
33 42 31 00-0545	Type G-3 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
	33 42 31 00-0546	EA	3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,648.33	
	33 42 31 00-0547	EA	4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,942.47	
	33 42 31 00-0548	EA	5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,216.06	
	33 42 31 00-0549	EA	6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,469.92	
	33 42 31 00-0550	EA	7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,702.39	
	33 42 31 00-0551	EA	8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,915.14	
33 42 31 00-0552	Type G-4_24 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
	33 42 31 00-0553	EA	3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,032.40	
	33 42 31 00-0554	EA	4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,369.81	
	33 42 31 00-0555	EA	5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,683.75	
	33 42 31 00-0556	EA	6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,973.38	
	33 42 31 00-0557	EA	7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,240.40	
	33 42 31 00-0558	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,483.11	
	33 42 31 00-0559	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	4,762.26	
	33 42 31 00-0560	EA	10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,563.56	
	33 42 31 00-0561	EA	12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,303.73	
	33 42 31 00-0562	EA	14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,984.11	
	33 42 31 00-0563	EA	16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,641.17	
	33 42 31 00-0564	EA	18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,246.86	
	33 42 31 00-0565	EA	20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,801.16	
33 42 31 00-0566	Type G-4_18 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
	33 42 31 00-0567	EA	3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,096.41	
	33 42 31 00-0568	EA	4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,431.80	
	33 42 31 00-0569	EA	5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,743.72	
	33 42 31 00-0570	EA	6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,032.17	
	33 42 31 00-0571	EA	7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,297.18	
	33 42 31 00-0572	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,537.86	
	33 42 31 00-0573	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	4,790.14	
	33 42 31 00-0574	EA	10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,589.51	
	33 42 31 00-0575	EA	12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,329.08	
	33 42 31 00-0576	EA	14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,008.87	
	33 42 31 00-0577	EA	16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,665.46	
	33 42 31 00-0578	EA	18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,270.67	
	33 42 31 00-0579	EA	20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,823.67	
33 42 31 00-0580	Type G-5 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
	33 42 31 00-0581	EA	3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,632.32	
	33 42 31 00-0582	EA	4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,926.76	
	33 42 31 00-0583	EA	5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,201.47	
	33 42 31 00-0584	EA	6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,454.80	
	33 42 31 00-0585	EA	7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,688.41	
	33 42 31 00-0586	EA	8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,901.45	
33 42 31 00-0587	Type G-6 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
	33 42 31 00-0588	EA	3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,664.33	
	33 42 31 00-0589	EA	4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,958.17	
	33 42 31 00-0590	EA	5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,231.46	
	33 42 31 00-0591	EA	6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,484.19	
	33 42 31 00-0592	EA	7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,716.36	
	33 42 31 00-0593	EA	8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,928.83	



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	Stormwater Utilities	33 40	CS
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31	00-0594		Type GT1 Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>		
	33 42 31 00-0595	EA	3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,784.54	
	33 42 31 00-0596	EA	4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,244.50	
	33 42 31 00-0597	EA	5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,704.77	
	33 42 31 00-0598	EA	6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,068.27	
	33 42 31 00-0599	EA	7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,431.26	
	33 42 31 00-0600	EA	8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,762.76	
33 42 31	00-0601		Type GT2 Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>		
	33 42 31 00-0602	EA	3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,376.66	
	33 42 31 00-0603	EA	4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,877.50	
	33 42 31 00-0604	EA	5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,342.15	
	33 42 31 00-0605	EA	6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,771.45	
	33 42 31 00-0606	EA	7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,164.58	
	33 42 31 00-0607	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,522.35	
	33 42 31 00-0608	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,390.49	
	33 42 31 00-0609	EA	10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,569.05	
	33 42 31 00-0610	EA	12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,658.14	
	33 42 31 00-0611	EA	14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,658.62	
	33 42 31 00-0612	EA	16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,626.42	
	33 42 31 00-0613	EA	18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,517.25	
	33 42 31 00-0614	EA	20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,331.10	
33 42 31	00-0615		Type GT3 Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>		
	33 42 31 00-0616	EA	3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,768.55	
	33 42 31 00-0617	EA	4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,228.78	
	33 42 31 00-0618	EA	5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,657.55	
	33 42 31 00-0619	EA	6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,053.99	
	33 42 31 00-0620	EA	7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,417.28	
	33 42 31 00-0621	EA	8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,749.08	
33 42 31	00-0622		Type GT4 Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>		
	33 42 31 00-0623	EA	3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,488.69	
	33 42 31 00-0624	EA	4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,985.77	
	33 42 31 00-0625	EA	5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,447.52	
	33 42 31 00-0626	EA	6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,873.08	
	33 42 31 00-0627	EA	7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,263.28	
	33 42 31 00-0628	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,618.14	
	33 42 31 00-0629	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,404.18	
	33 42 31 00-0630	EA	10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,582.44	
	33 42 31 00-0631	EA	12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,671.23	
	33 42 31 00-0632	EA	14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,670.57	
	33 42 31 00-0633	EA	16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,638.14	
	33 42 31 00-0634	EA	18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,528.73	
	33 42 31 00-0635	EA	20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,342.35	
33 42 31	00-0636		Type GO Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>		
	33 42 31 00-0637	EA	3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	1,984.39	
	33 42 31 00-0638	EA	4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,307.82	
	33 42 31 00-0639	EA	5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,608.37	
	33 42 31 00-0640	EA	6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,886.05	
	33 42 31 00-0641	EA	7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,140.85	
	33 42 31 00-0642	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,373.62	
	33 42 31 00-0643	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	4,639.58	
	33 42 31 00-0644	EA	10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	5,415.09	
	33 42 31 00-0645	EA	12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,131.27	
	33 42 31 00-0646	EA	14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,789.79	
	33 42 31 00-0647	EA	16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,426.94	
	33 42 31 00-0648	EA	18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,012.89	
	33 42 31 00-0649	EA	20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,549.36	
33 42 31	00-0650		Type GDO Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>		
	33 42 31 00-0651	EA	3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,592.51	
	33 42 31 00-0652	EA	4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,017.68	
	33 42 31 00-0653	EA	5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,412.91	
	33 42 31 00-0654	EA	6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,779.03	
	33 42 31 00-0655	EA	7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,114.37	
	33 42 31 00-0656	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,420.61	
	33 42 31 00-0657	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	5,967.14	
	33 42 31 00-0658	EA	10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,966.71	
	33 42 31 00-0659	EA	12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,890.95	
	33 42 31 00-0660	EA	14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,740.68	
	33 42 31 00-0661	EA	16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,561.77	
	33 42 31 00-0662	EA	18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,318.03	

33	Utilities
33 40	Stormwater Utilities
33 42	Stormwater Conveyance



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0663 EA 20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,009.45	
33 42 31 00-0664 Catch Basin Frames And Covers (33 42 31 00-0001)		
33 42 31 00-0665 Cast Iron Frames And Covers (33 42 31 00-0664)		
33 42 31 00-0666 EA 18" Diameter Cast Iron Catch Basin Frame And Cover	323.76	84.44
33 42 31 00-0667 EA 22" Diameter Cast Iron Catch Basin Frame And Cover	396.22	95.41
33 42 31 00-0668 EA 24" Diameter Cast Iron Catch Basin Frame And Cover	437.10	98.79
33 42 31 00-0669 EA 26" Diameter Cast Iron Catch Basin Frame And Cover	488.07	114.84
33 42 31 00-0670 EA 28" Diameter Cast Iron Catch Basin Frame And Cover	557.28	130.88
33 42 31 00-0671 EA 32" Diameter Cast Iron Catch Basin Frame And Cover	834.34	136.79
33 42 31 00-0672 EA 16" x 16" Cast Iron Catch Basin Frame And Cover	472.90	103.86
33 42 31 00-0673 EA 18" x 24" Cast Iron Catch Basin Frame And Cover	599.57	119.90
33 42 31 00-0674 EA 20" x 27" Cast Iron Catch Basin Frame And Cover	666.89	124.98
33 42 31 00-0675 EA 23" x 23" Cast Iron Catch Basin Frame And Cover	637.44	124.98
33 42 31 00-0676 EA 24" x 24" Cast Iron Catch Basin Frame And Cover	659.91	130.04
33 42 31 00-0677 EA 26" x 26" Cast Iron Catch Basin Frame And Cover	703.98	135.10
33 42 31 00-0678 EA 24" x 36" Cast Iron Catch Basin Frame And Cover	828.30	145.24
33 42 31 00-0679 Area Yard Drain (33 42 31 00-0001)		
33 42 31 00-0680 Ductile Iron Grates (33 42 31 00-0679)		
Note: Not for traffic loading.		
33 42 31 00-0681 EA 8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe	123.73	29.90
33 42 31 00-0682 EA 10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe	151.23	31.89
33 42 31 00-0683 EA 12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	348.74	39.87
33 42 31 00-0684 EA 15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	416.73	47.84
33 42 33 Stormwater Curbside Drains and Inlets (33 42)		
33 42 33 00-0001 Curb Inlet Frames And Covers (33 42 33)		
33 42 33 00-0002 Cast Iron Curb Inlet Frames And Covers (33 42 33 00-0001)		
33 42 33 00-0003 EA 20" x 22" Cast Iron Curb Inlet Frame And Cover	572.11	98.79
33 42 33 00-0004 EA 22" x 24" Cast Iron Curb Inlet Frame And Cover	614.33	114.84
33 42 33 00-0005 EA 24" x 24" Cast Iron Curb Inlet Frame And Cover	633.63	114.84
33 42 33 00-0006 EA 27" x 27" Cast Iron Curb Inlet Frame And Cover	694.50	135.10
33 42 33 00-0007 EA 36" x 24" Cast Iron Curb Inlet Frame And Cover	694.11	144.39
33 42 36 Stormwater Trench Drains (33 42)		
33 42 36 00-0001 Modular Trench Drains (33 42 36)		
See CSI section 03 31 13 00-0011 for concrete.		
33 42 36 00-0002 Modular Trench Drains (33 42 36 00-0001)		
Note: Excludes grates. See CSI section 33 42 36 00-0118 for grates.		
33 42 36 00-0003 4" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0004 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0003)		
33 42 36 00-0005 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0006 LF 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain (Zurn Z844-C)	45.61	13.51
For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	29.64	
For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	59.29	
For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	94.86	
For Type 304 Stainless Steel Top Veneer Frame, Add	23.72	
For Aluminum Veneer Bronze Anodized Frame, Add	11.86	
33 42 36 00-0007 Outlet Adapters For 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0008 EA Closed End Cap For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	33.50	
33 42 36 00-0009 EA No-Hub End Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	41.95	
33 42 36 00-0010 EA No-Hub Bottom Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	41.95	
33 42 36 00-0011 6" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0012 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0013 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0014 LF 6" Wide, High Density Polyethylene, Modular Trench Drain	78.26	13.51
For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	29.64	
For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	59.29	
For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	94.86	
For Type 304 Stainless Steel Top Veneer Frame, Add	23.72	
For Aluminum Veneer Bronze Anodized Frame, Add	11.86	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0015 Outlet Adapters For 6" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0012)</small>		
33 42 36 00-0016 EA Closed End Cap For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	38.23	
33 42 36 00-0017 EA No-Hub End Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	46.68	
33 42 36 00-0018 EA No-Hub Bottom Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	46.68	
33 42 36 00-0019 Other Fittings For 6" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0012)</small>		
33 42 36 00-0020 EA Bottom Dome Strainer For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	61.28	
33 42 36 00-0021 EA Joint Connector For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	61.28	
33 42 36 00-0022 EA 90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	279.38	
33 42 36 00-0023 EA Cross For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	516.54	
33 42 36 00-0024 EA Cutting Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	59.29	
33 42 36 00-0025 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0011)</small>		
33 42 36 00-0026 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0025)</small>		
33 42 36 00-0027 LF 6" Wide, Fiber Reinforced Polyester, Modular Trench Drain	106.12	13.51
<i>For Black Acid Resistant Coated Frame, Add</i>	22.53	
<i>For Galvanized Top Frame Assembly, Add</i>	22.53	
<i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	83.01	
33 42 36 00-0028 Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0025)</small>		
33 42 36 00-0029 EA Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	40.61	
33 42 36 00-0030 EA No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	49.06	
33 42 36 00-0031 EA No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	49.06	
33 42 36 00-0032 Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0025)</small>		
33 42 36 00-0033 EA Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	61.28	
33 42 36 00-0034 EA Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	61.28	
33 42 36 00-0035 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	279.38	
33 42 36 00-0036 EA Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	516.54	
33 42 36 00-0037 EA Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	59.29	
33 42 36 00-0038 6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0011)</small>		
33 42 36 00-0039 6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>		
33 42 36 00-0040 LF 6" Wide, Vinylester Fiberglass, Modular Trench Drain.....	132.21	13.51
<i>For Black Acid Resistant Coated Frame, Add</i>	22.53	
<i>For Galvanized Top Frame Assembly, Add</i>	22.53	
<i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	83.01	
33 42 36 00-0041 Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>		
33 42 36 00-0042 EA Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	59.58	
33 42 36 00-0043 EA No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	68.03	
33 42 36 00-0044 EA No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	68.03	
33 42 36 00-0045 Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>		
33 42 36 00-0046 EA Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	61.28	
33 42 36 00-0047 EA Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	61.28	
33 42 36 00-0048 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	279.38	
33 42 36 00-0049 EA Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	516.54	
33 42 36 00-0050 EA Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	59.29	
33 42 36 00-0051 6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0011)</small>		
33 42 36 00-0052 6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0051)</small>		
33 42 36 00-0053 LF 6" Wide, Polymer Concrete, Modular Trench Drain	271.72	
33 42 36 00-0054 Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0051)</small>		
33 42 36 00-0055 EA Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain.....	109.29	
33 42 36 00-0056 EA No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain.....	134.42	
33 42 36 00-0057 EA No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain.....	47.16	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0058 12" Wide, Modular Trench Drains <small>(33 42 36 00-0002)</small>		
33 42 36 00-0059 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0058)</small>		
33 42 36 00-0060 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>		
33 42 36 00-0061 LF 12" Wide, High Density Polyethylene, Modular Trench Drain <i>For Acid Resistant Coated Top Frame, Add</i> <i>For Galvanized Welded Frame Assembly, Add</i> <i>For Type 304 Stainless Steel Top Frame, Add</i>	137.94 30.83 32.31 184.98	18.58
33 42 36 00-0062 Outlet Adapters For 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>		
33 42 36 00-0063 EA End Cap For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	71.13	
33 42 36 00-0064 EA No-Hub End Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	82.40	
33 42 36 00-0065 EA No-Hub Bottom Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	82.40	
33 42 36 00-0066 Other Fittings For 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>		
33 42 36 00-0067 EA Bottom Dome Strainer For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	106.26	
33 42 36 00-0068 EA Joint Connector For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	135.90	
33 42 36 00-0069 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	539.27	
33 42 36 00-0070 EA Cross For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	1,013.59	
33 42 36 00-0071 EA Cutting Charges For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	118.58	
33 42 36 00-0072 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0058)</small>		
33 42 36 00-0073 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0072)</small>		
33 42 36 00-0074 LF 12" Wide, Fiber Reinforced Polyester, Modular Trench Drain..... <i>For Acid Resistant Coated Top Frame, Add</i> <i>For Galvanized Welded Frame Assembly, Add</i> <i>For Type 304 Stainless Steel Top Frame, Add</i>	167.59 30.83 32.31 184.98	18.58
33 42 36 00-0075 Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0072)</small>		
33 42 36 00-0076 EA End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	73.50	
33 42 36 00-0077 EA No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	84.77	
33 42 36 00-0078 EA No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	84.77	
33 42 36 00-0079 Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0072)</small>		
33 42 36 00-0080 EA Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	106.26	
33 42 36 00-0081 EA Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	135.90	
33 42 36 00-0082 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	539.27	
33 42 36 00-0083 EA Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	1,013.59	
33 42 36 00-0084 EA Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	118.58	
33 42 36 00-0085 12" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0058)</small>		
33 42 36 00-0086 12" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0085)</small>		
33 42 36 00-0087 LF 12" Wide, Vinylester Fiberglass, Modular Trench Drain..... <i>For Acid Resistant Coated Top Frame, Add</i> <i>For Galvanized Welded Frame Assembly, Add</i> <i>For Type 304 Stainless Steel Top Frame, Add</i>	226.88 30.83 32.31 184.98	18.58
33 42 36 00-0088 Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0085)</small>		
33 42 36 00-0089 EA End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	162.43	
33 42 36 00-0090 EA No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	173.70	
33 42 36 00-0091 EA No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	173.70	
33 42 36 00-0092 Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0085)</small>		
33 42 36 00-0093 EA Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	106.26	
33 42 36 00-0094 EA Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	135.90	
33 42 36 00-0095 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	539.27	
33 42 36 00-0096 EA Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	1,013.59	
33 42 36 00-0097 EA Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	118.58	
33 42 36 00-0098 12" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0058)</small>		
33 42 36 00-0099 12" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0098)</small>		



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0100 LF 12" Wide, Polymer Concrete, Modular Trench Drain	364.39	
33 42 36 00-0101 Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains ⁽³³⁾		
^{42 36 00-0098}		
33 42 36 00-0102 EA Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain.....	184.25	
33 42 36 00-0103 EA No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain.....	316.13	
33 42 36 00-0104 EA No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain.....	79.92	
33 42 36 00-0105 23" Wide, Modular Trench Drains ^(33 42 36 00-0002)		
33 42 36 00-0106 23" Wide, High Density Polyethylene, Modular Trench Drains ^(33 42 36 00-0105)		
33 42 36 00-0107 23" Wide, High Density Polyethylene, Modular Trench Drains ^(33 42 36 00-0106)		
33 42 36 00-0108 LF 23" Wide, High Density Polyethylene, Modular Trench Drain	191.84	25.34
<i>For Acid Resistant Coated Frame, Add</i>	46.25	
<i>For Galvanized Frame Assembly, Add</i>	46.25	
<i>For Type 304 Stainless Steel Top Frame, Add</i>	284.59	
33 42 36 00-0109 Outlet Adapters For 23" Wide, High Density Polyethylene, Modular Trench Drains ^(33 42 36 00-0106)		
33 42 36 00-0110 EA End Cap For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	200.78	
33 42 36 00-0111 EA No-Hub End Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	312.21	
33 42 36 00-0112 EA No-Hub Bottom Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	312.21	
33 42 36 00-0113 Other Fittings For 23" Wide, High Density Polyethylene, Modular Trench Drains ^(33 42 36 00-0106)		
33 42 36 00-0114 EA Bottom Dome Strainer For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	232.85	
33 42 36 00-0115 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	1,054.18	
33 42 36 00-0116 EA Cross For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	2,002.82	
33 42 36 00-0117 EA Cutting Charges For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	237.16	
33 42 36 00-0118 Modular Trench Drain Grates ^(33 42 36 00-0001)		
33 42 36 00-0119 4" Wide, Modular Trench Drain Grates ^(33 42 36 00-0118)		
33 42 36 00-0120 LF 4" Wide, Polypropylene, Silver Heel Proof, Modular Trench Drain Grate (Zurn Z884-P4-HPP)	25.39	2.54
33 42 36 00-0121 LF 4" Wide, Class C Cast Iron, Modular Trench Drain Grate (Zurn Z884-P4-CG).....	26.64	2.54
33 42 36 00-0122 LF 4" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FG).....	21.66	2.54
33 42 36 00-0123 LF 4" Wide, Stainless Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FS).....	55.91	2.54
33 42 36 00-0124 LF 4" Wide, Galvanized Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FG).....	21.66	2.54
33 42 36 00-0125 LF 4" Wide, Stainless Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FS).....	55.91	2.54
33 42 36 00-0126 6" Wide, Modular Trench Drain Grates ^(33 42 36 00-0118)		
33 42 36 00-0127 LF 6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate	61.14	2.54
33 42 36 00-0128 LF 6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate.....	52.19	2.54
33 42 36 00-0129 LF 6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	54.68	2.54
33 42 36 00-0130 LF 6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....	48.09	2.54
33 42 36 00-0131 LF 6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	51.65	2.54
33 42 36 00-0132 LF 6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate.....	52.24	2.54
33 42 36 00-0133 LF 6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate	52.24	2.54
33 42 36 00-0134 LF 6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate	51.65	2.54
33 42 36 00-0135 LF 6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate.....	45.72	2.54
33 42 36 00-0136 LF 6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	45.72	2.54
33 42 36 00-0137 LF 6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	48.45	2.54
33 42 36 00-0138 LF 6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate.....	48.45	2.54
33 42 36 00-0139 LF 6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	62.32	2.54
33 42 36 00-0140 LF 6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	62.32	2.54
33 42 36 00-0141 LF 6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate.....	112.13	2.54
33 42 36 00-0142 LF 6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate	112.13	2.54
33 42 36 00-0143 LF 6" Wide, Stainless Steel Bar, Modular Trench Drain Grate.....	307.78	2.54
33 42 36 00-0144 LF 6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate	43.35	2.54
33 42 36 00-0145 LF 6" Wide, Fiberglass, Modular Trench Drain Grate	90.78	2.54
33 42 36 00-0146 12" Wide, Modular Trench Drain Grates ^(33 42 36 00-0118)		
33 42 36 00-0147 LF 12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate.....	164.72	2.75
33 42 36 00-0148 LF 12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	157.61	2.75
33 42 36 00-0149 LF 12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	137.45	2.75
33 42 36 00-0150 LF 12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate.....	144.27	2.75
33 42 36 00-0151 LF 12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	125.00	2.75
33 42 36 00-0152 LF 12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	242.10	2.75
33 42 36 00-0153 LF 12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate.....	242.10	2.75
33 42 36 00-0154 LF 12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	308.20	2.75
33 42 36 00-0155 LF 12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	308.20	2.75
33 42 36 00-0156 LF 12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate.....	392.69	2.75
33 42 36 00-0157 LF 12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate	392.69	2.75

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0158 LF 12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate	372.83	2.75
33 42 36 00-0159 LF 12" Wide, Fiberglass, Modular Trench Drain Grate	177.47	2.75
33 42 36 00-0160 23" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0161 LF 23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	258.82	2.96
33 42 36 00-0162 LF 23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate	218.50	2.96
33 42 36 00-0163 LF 23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	337.08	2.96
33 42 36 00-0164 LF 23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate.....	250.52	2.96
33 44 Storm Utility Water Drains (33 40)		
33 44 36 Oil and Stormwater Separators (33 44)		
33 44 36 00-0001 Oil/Water Separator (33 44 36)		
Note: Complete with internal sensors and detectors.		
33 44 36 00-0002 Coalescing Oil Water Separator (33 44 36 00-0001)		
Note: Underground tank with interior polyurethane coating. Includes manways, coalescer, inlet and outlet spools, pump mount, 2" level sensor pipe and 4" pump out pipe. HighGuard as manufactured by Highland Tank, Stoystown, PA.		
33 44 36 00-0003 Single Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)		
33 44 36 00-0004 EA 550 Gallon, 55 GPM Single Wall Steel Coalescing Oil Water Separator With Manways	12,468.05	
Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.		
For Interior Polyurethane Coating, Add	711.00	
33 44 36 00-0005 EA 1,000 Gallon, 100 GPM Single Wall Steel Coalescing Oil Water Separator With Manways	14,762.87	
Note: HTC-G 1000. 4' diameter x 14' long tank.		
For Interior Polyurethane Coating, Add	893.70	
33 44 36 00-0006 EA 2,000 Gallon, 200 GPM Single Wall Steel Coalescing Oil Water Separator With Manways	17,233.39	
Note: HTC-G 2000. 5'-4" diameter x 15' long tank.		
For Interior Polyurethane Coating, Add	1,340.10	
33 44 36 00-0007 Double Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)		
33 44 36 00-0008 EA 550 Gallon, 55 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	18,146.65	
Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.		
For Interior Polyurethane Coating, Add	711.00	
33 44 36 00-0009 EA 1,000 Gallon, 100 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....	20,535.81	
Note: HTC-G 1000. 4' diameter x 14' long tank.		
For Interior Polyurethane Coating, Add	893.70	
33 44 36 00-0010 EA 2,000 Gallon, 200 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....	24,603.69	
Note: HTC-G 2000. 5'-4" diameter x 15' long tank.		
For Interior Polyurethane Coating, Add	1,340.10	
33 44 36 00-0011 EA 3,000 Gallon, 300 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....	28,286.55	
Note: HTC-G 3000. 5'-4" diameter x 21'-4" long tank.		
For Interior Polyurethane Coating, Add	1,550.70	
33 44 36 00-0012 EA 5,000 Gallon, 500 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....	36,662.93	
Note: HTC-G 5000. 6' diameter x 28'-8" long tank.		
For Interior Polyurethane Coating, Add	2,057.80	
33 44 36 00-0013 Accessories For Coalescing Oil Water Separators (33 44 36 00-0002)		
33 44 36 00-0014 EA Single Channel Alarm Panel For Coalescing Oil Water Separator.....	708.65	
Note: HTAP1.		
33 44 36 00-0015 EA Two Channel Alarm Panel For Coalescing Oil Water Separator.....	957.43	
Note: HTAP2.		
33 44 36 00-0016 EA Float Interface Sensor For Coalescing Oil Water Separator	554.86	
Note: Required for UL 2215 label.		
33 44 36 00-0017 EA 1-1/2" Liquid Only Sensor For Coalescing Oil Water Separator.....	417.36	
Note: Required for UL 2215 label.		
33 44 36 00-0018 EA Polyvinyl Chloride (PVC) Cap For 2" Sensor For Coalescing Oil Water Separator.....	159.53	
Note: Required for UL 2215 label.		
33 44 36 00-0019 EA 550, 1,000 Or 2,000 Gallon Tank Concrete Deadmen Set (2 Each) For Coalescing Oil Water Separator	2,329.54	
33 44 36 00-0020 EA 3,000 Gallon Tank Concrete Deadmen Set (4 Each) For Coalescing Oil Water Separator	4,659.07	
33 44 36 00-0021 EA 5,000 Gallon Tank Concrete Deadmen Set (6 Each) For Coalescing Oil Water Separator	6,988.67	
33 44 36 00-0022 EA 550 Or 1,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	447.94	
33 44 36 00-0023 EA 2,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	521.28	
33 44 36 00-0024 EA 3,000 Gallon Tank Polyester Hold Down Straps (4 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	1,042.56	
33 44 36 00-0025 EA 5,000 Gallon Tank Polyester Hold Down Straps (6 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	2,251.37	
33 44 36 00-0026 EA 30" Diameter Grade Level Manway For Coalescing Oil Water Separator.....	619.82	
Note: Required when installed in paved areas.		
33 44 36 00-0027 EA 36" Diameter Grade Level Manway For Coalescing Oil Water Separator.....	800.14	
Note: Required when installed in paved areas.		
33 44 36 00-0028 EA 48" Diameter Grade Level Manway For Coalescing Oil Water Separator.....	1,095.05	
Note: Required when installed in paved areas.		
33 44 36 00-0029 EA 54" x 54" Grade Level Manway For Coalescing Oil Water Separator	1,952.17	
Note: Required when installed in paved areas.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0030 EA 66" x 54" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	2,495.31	
33 44 36 00-0031 EA 66" x 66" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	3,118.67	
33 44 36 00-0032 EA 78" x 66" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	3,918.50	
33 44 36 00-0033 EA 550 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	764.30	
33 44 36 00-0034 EA 1,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	931.60	
33 44 36 00-0035 EA 2,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,463.29	
33 44 36 00-0036 EA 550 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	728.78	
33 44 36 00-0037 EA 1,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	884.62	
33 44 36 00-0038 EA 2,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,049.63	
33 44 36 00-0039 EA 18" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	61.88	
33 44 36 00-0040 EA 24" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	69.90	
33 44 36 00-0041 Oil Skimmers (33 44 36)		
33 44 36 00-0042 Oil Skimmers, 12" And 24" Models (33 44 36 00-0041)		
33 44 36 00-0043 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase.....	4,904.78	527.83
33 44 36 00-0044 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,140.58	527.83
33 44 36 00-0045 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase.....	4,926.62	527.83
33 44 36 00-0046 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,229.00	527.83
33 44 36 00-0047 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,174.42	527.83
33 44 36 00-0048 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,374.19	527.83
33 44 36 00-0049 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	5,225.72	527.83
33 44 36 00-0050 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	5,527.02	527.83
33 44 36 00-0051 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,510.15	703.92
33 44 36 00-0052 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,762.32	703.92
33 44 36 00-0053 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase.....	5,576.74	703.92
33 44 36 00-0054 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,939.17	703.92
33 44 36 00-0055 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,147.67	703.92
33 44 36 00-0056 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,399.84	703.92
33 44 36 00-0057 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	6,201.16	703.92
33 44 36 00-0058 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	6,564.68	703.92
33 44 36 00-0059 Oil Skimmers, Add-Ons (33 44 36 00-0041)		
33 44 36 00-0060 LF Add For Belt Projection, 12" Width.....	16.37	
33 44 36 00-0061 LF Add For Belt Projection, 24" Width.....	30.57	
33 44 36 00-0062 LF Add For Spacer Stands, 12" Models.....	249.52	
33 44 36 00-0063 LF Add For Spacer Stands, 24" Models.....	297.55	
33 46 Stormwater Management (33 40)		
33 46 23 Modular Buried Stormwater Storage Units (33 46)		
33 46 23 00-0001 Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™) (33 46 23) Note: Includes chambers and end caps delivery to site. Excludes excavation and earthwork, foundation stone, embedment and perimeter stone, geotextile fabrics and cutting holes in chambers. See CSI section 31 05 16 00-0000 for aggregate (foundation, embedment and perimeter stone), 31 23 16 36-0000 for excavation and earth backfill, 31 32 19 16-0000 for woven and non-woven geotextile fabric.		
33 46 23 00-0002 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) (33 46 23 00-0001)		
33 46 23 00-0003 EA Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	351.99	
33 46 23 00-0004 EA >10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	322.53	
33 46 23 00-0005 EA >20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	302.18	
33 46 23 00-0006 EA >30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	282.42	
33 46 23 00-0007 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	162.18	
33 46 23 00-0008 EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	142.21	
33 46 23 00-0009 EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	130.87	
33 46 23 00-0010 EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	119.68	
33 46 23 00-0011 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) (33 46 23 00-0001)		
33 46 23 00-0012 EA Up To 10, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	207.32	
33 46 23 00-0013 EA >10 To 20, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	188.51	
33 46 23 00-0014 EA >20 To 30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	175.90	
33 46 23 00-0015 EA >30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	164.45	
33 46 23 00-0016 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	128.10	

33 Utilities**33 40 Stormwater Utilities****33 46 Stormwater Management**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 46 23 00-0017 EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	113.25	
33 46 23 00-0018 EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	104.39	
33 46 23 00-0019 EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	96.51	
33 46 23 00-0020 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) <small>(33 46 23 00-0001)</small>		
33 46 23 00-0021 EA Up To 10, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	583.82	
33 46 23 00-0022 EA >10 To 20, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	541.30	
33 46 23 00-0023 EA >20 To 30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	508.42	
33 46 23 00-0024 EA >30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	478.76	
33 46 23 00-0025 EA Up To 10, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	496.50	
33 46 23 00-0026 EA >10 To 20, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	458.34	
33 46 23 00-0027 EA >20 To 30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	429.60	
33 46 23 00-0028 EA >30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	403.89	
33 46 23 00-0029 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) <small>(33 46 23 00-0001)</small>		
33 46 23 00-0030 EA Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	364.51	
33 46 23 00-0031 EA >10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	334.44	
33 46 23 00-0032 EA >20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	313.48	
33 46 23 00-0033 EA >30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	293.15	
33 46 23 00-0034 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	162.18	
33 46 23 00-0035 EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	139.84	
33 46 23 00-0036 EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	130.87	
33 46 23 00-0037 EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	119.68	
33 46 23 00-0038 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) <small>(33 46 23 00-0001)</small>		
33 46 23 00-0039 EA Up To 10, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	609.01	
33 46 23 00-0040 EA >10 To 20, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	563.78	
33 46 23 00-0041 EA >20 To 30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	528.18	
33 46 23 00-0042 EA >30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	497.95	
33 46 23 00-0043 EA Up To 10, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	750.39	
33 46 23 00-0044 EA >10 To 20, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	698.08	
33 46 23 00-0045 EA >20 To 30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	655.77	
33 46 23 00-0046 EA >30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	619.17	
33 46 23 00-0047 Cut Opening In Polypropylene Corrugated Wall Stormwater Collection Chambers <small>(33 46 23 00-0001)</small>		
33 46 23 00-0048 EA Cut Up To 6" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	44.81	
33 46 23 00-0049 EA Cut >6" To 12" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	57.61	
33 46 23 00-0050 EA Cut >12" To 24" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	74.41	
33 46 23 00-0051 EA Cut >24" To 36" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	94.06	
33 46 23 00-0052 EA 12" x 6" Inspection Port Kit.....	416.26	
Note: (2712AG6IPKIT)		
33 46 53 Stormwater Leaching Pits <small>(33 46)</small>		
33 46 53 00-0001 Drainage Wells <small>(33 46 53)</small>		
Note: Includes augering hole.		
33 46 53 00-0002 LF 12" Diameter Drainage Well With Corrugated Metal Liner	23.79	
33 46 53 00-0003 LF 18" Diameter Drainage Well With Corrugated Metal Liner	28.91	
33 46 53 00-0004 LF 24" Diameter Drainage Well With Corrugated Metal Liner	38.42	

33 50 Hydrocarbon Utilities (33)



	Utilities	33	
	Hydrocarbon Utilities	33 50	CS
	Stormwater Management	33 46	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 51 Hydrocarbon Sources (33 50)

33 51 29 Extraction Wells for Gaseous Hydrocarbons (33 51)

33 51 29 00-0001 Landfill Gas Well (33 51 29)

See CSI section 02 62 16 00-0000 for soil vapor extraction.

33 51 29 00-0002 Mobilization And Demobilization Landfill Gas Extraction Well (33 51 29 00-0001)

33 51 29 00-0003	EA	24" Diameter, Landfill Gas Extraction Well Drilling Mobilization And Demobilization.....	975.58	
33 51 29 00-0004	EA	>24" To 36" Diameter, Landfill Gas Extraction Well Drilling Mobilization And Demobilization.....	1,463.38	

33 51 29 00-0005 Drill Landfill Gas Extraction Well In Normal Soil, Sand, Gravel, O.B. (33 51 29 00-0001)

Note: Excludes well gravel or materials.

33 51 29 00-0006	LF	24" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	168.89	
33 51 29 00-0007	LF	30" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	220.00	
33 51 29 00-0008	LF	36" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	273.65	

33 51 29 00-0009 Landfill Gas Extraction Well Gravel Backfill (33 51 29 00-0001)

Note: 1/2" x 1-1/2" drain rock.

33 51 29 00-0010	LF	24" Diameter Landfill Gas Extraction Well, Gravel.....	66.27	
33 51 29 00-0011	LF	30" Diameter Landfill Gas Extraction Well, Gravel.....	85.15	
33 51 29 00-0012	LF	36" Diameter Landfill Gas Extraction Well, Gravel.....	101.66	

33 51 29 00-0013 Landfill Gas Extraction Well Collection Head (33 51 29 00-0001)

33 51 29 00-0014	EA	Landfill Gas Extraction Well Head Assembly.....	2,058.77	
33 51 29 00-0015	EA	Landfill Gas Extraction Well Locking Enclosure.....	662.48	
33 51 29 00-0016	SF	Landfill Gas Extraction Well Skirt, PVC Seal (Landtex WBS-100-4).....	3.06	
33 51 29 00-0017	CF	Landfill Gas Extraction Well Bentonite Barrier (Benseal EZ-MUD).....	6.38	
33 51 29 00-0018	CY	Landfill Gas Extraction Well Plug, Moistened And Tamped In 2' Lifts.....	105.18	
33 51 29 00-0019	EA	4" Steel Concrete Filled Pipe Bollard, 8' Overall Length (3' Bury With 5' Exposed) For Landfill Gas Extraction Well.....	470.00	10.33

Note: Includes drilling, concrete footing, pipe and concrete fill.

For Galvanized Steel, Add 37.05

For 304 Stainless Steel, Add 294.21

For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add 1,032.28

For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add 515.06

For Schedule 80, Add 57.90

33 51 29 00-0020 Landfill Gas Extraction Well Valve Box (33 51 29 00-0001)

33 51 29 00-0021	EA	17" x 30" x 12" High Fibrelyte Utility Box (FL36T-12).....	233.87	110.50
33 51 29 00-0022	EA	17" x 30" x 18" High Fibrelyte Utility Box (FL36T-18).....	307.93	110.50
33 51 29 00-0023	EA	17" x 30" x 24" High Fibrelyte Utility Box (FL36T-18).....	382.08	110.50
33 51 29 00-0024	EA	Fibrelyte Composite Lid For 17" x 30" Utility Box (FL36D).....	173.24	26.65
33 51 29 00-0025	EA	6" High Extension For 17" x 30" Utility Box (FL36x6).....	104.11	38.77
33 51 29 00-0026	EA	8" High Extension For 17" x 30" Utility Box (FL36x8).....	115.59	38.77

33 51 29 00-0027 Landfill Gas Extraction Well Riser Pipe (33 51 29 00-0001)

33 51 29 00-0028	LF	4" Polyvinyl Chloride (PVC) Well Riser Pipe, Flush Thread.....	16.44	
33 51 29 00-0029	LF	6" Diameter Slotted Polyvinyl Chloride (PVC) Riser Pipe With Slip Joint And Coupler.....	41.08	
33 51 29 00-0030	EA	6" Well Riser Pipe, Centralizer For >12" To 24" Diameter Well.....	83.04	
33 51 29 00-0031	EA	6" Well Riser Pipe, Centralizer For >24" To 30" Diameter Well.....	122.19	

33 51 29 00-0032 Soil Vapor Gas Extraction Well (33 51 29)

See CSI section 02 62 16 00-0000 for soil vapor extraction.

33 51 29 00-0033 Mobilization And Demobilization Soil Vapor Gas Extraction Well (33 51 29 00-0032)

33 51 29 00-0034	EA	Up To 12" Diameter, Soil Vapor Gas Extraction Well Drilling Mobilization And Demobilization.....	793.66	
33 51 29 00-0035	EA	>12" To 24" Diameter, Soil Vapor Gas Extraction Well Drilling Mobilization And Demobilization.....	975.58	

33 51 29 00-0036 Drill Soil Vapor Gas Extraction Well In Normal Soil, Sand, Gravel, O.B. (33 51 29 00-0032)

Note: Excludes well gravel or materials.

33 51 29 00-0037	LF	6" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	18.90	
33 51 29 00-0038	LF	8" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	22.44	
33 51 29 00-0039	LF	10" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	30.00	
33 51 29 00-0040	LF	12" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	46.95	
33 51 29 00-0041	LF	18" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	104.87	

33 51 29 00-0042 Soil Vapor Gas Extraction Well Pea Gravel Backfill (33 51 29 00-0032)

33 51 29 00-0043	LF	6" Diameter Soil Vapor Gas Extraction Well, Pea Gravel.....	9.97	
33 51 29 00-0044	LF	8" Diameter Soil Vapor Gas Extraction Well, Pea Gravel.....	15.24	
33 51 29 00-0045	LF	10" Diameter Soil Vapor Gas Extraction Well, Pea Gravel.....	22.11	
33 51 29 00-0046	LF	12" Diameter Soil Vapor Gas Extraction Well, Pea Gravel.....	27.79	
33 51 29 00-0047	LF	18" Diameter Soil Vapor Gas Extraction Well, Pea Gravel.....	48.13	

33	Utilities
33 50	Hydrocarbon Utilities
33 51	Hydrocarbon Sources



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 51 29 00-0048	Soil Vapor Gas Extraction Well Head <small>(33 51 29 00-0032)</small>		
33 51 29 00-0049	EA Soil Vapor Gas Extraction Well Head Assembly	1,091.11	
33 51 29 00-0050	EA Soil Vapor Gas Extraction Well Head Concrete Cap	1,028.57	
33 51 29 00-0051	EA Soil Vapor Gas Extraction Well Locking Enclosure	662.48	
33 51 29 00-0052	CF Soil Vapor Gas Extraction Well Neat Cement	5.39	
33 51 29 00-0053	CF Soil Vapor Gas Extraction Well Bentonite Barrier (Benseal EZ-MUD)	6.38	
33 51 29 00-0054	EA 4" Steel Concrete Filled Pipe Bollard, 8' Overall Length (3' Bury With 5' Exposed) For Soil Vapor Gas Extraction Well	470.00	10.33
	Note: Includes drilling, concrete footing, pipe and concrete fill.		
	For Galvanized Steel, Add	37.05	
	For 304 Stainless Steel, Add	294.21	
	For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	1,032.28	
	For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	515.06	
	For Schedule 80, Add	57.90	
33 51 29 00-0055	LF 1/4" Polyethylene Tubing For Soil Vapor Gas Extraction Well	2.49	
	For Work In Restricted Working Space, Add	0.70	
33 51 29 00-0056	EA 1/4" Polyvinyl Chloride (PVC) Stopcock Valve (Hayward LC12) For Soil Vapor Gas Extraction Well	49.33	15.29
33 51 29 00-0057	Soil Vapor Gas Extraction Well Riser Pipe <small>(33 51 29 00-0032)</small>		
33 51 29 00-0058	LF 3/4" Polyvinyl Chloride (PVC) Well Riser Pipe, Flush Tread	2.94	
33 51 29 00-0059	LF 3/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Riser Pipe	7.36	

33 52 Hydrocarbon Transmission and Distribution (33 50)

33 52 16 Gas Hydrocarbon Piping (33 52)

33 52 16 13 Steel Natural Gas Piping (33 52 16)

33 52 16 13-0001	Gas Distribution Lines <small>(33 52 16 13)</small>		
	Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		

33 53 Hydrocarbon Utility Pressure Regulation (33 50)

33 53 16 Gas Hydrocarbon Pressure Regulation (33 53)

33 53 16 00-0001 Gas Pressure Regulators With Screwed And Flanged Ends (33 53 16)

33 53 16 00-0002	EA 3/4" Gas Pressure Regulator, Screwed End	159.50	15.29
33 53 16 00-0003	EA 1" Gas Pressure Regulator, Screwed End	162.97	15.29
33 53 16 00-0004	EA 1-1/4" Gas Pressure Regulator, Screwed End	171.30	18.15
33 53 16 00-0005	EA 1-1/2" Gas Pressure Regulator, Screwed End	540.71	21.02
33 53 16 00-0006	EA 2" Gas Pressure Regulator, Screwed End	584.55	32.54
33 53 16 00-0007	EA 3" Gas Pressure Regulator, Screwed End	1,626.23	73.01
33 53 16 00-0008	EA 4" Gas Pressure Regulator, Screwed End	2,254.00	96.75

33 59 Hydrocarbon Utility Metering (33 50)

33 59 11 Diaphragm/Bellows Hydrocarbons Meters (33 59)

33 59 11 00-0001 Diaphragm Meters (33 59 11)

Note: With standard direct-digital reading maximum working pressures 5 lbs to 100 lbs, threaded connections. Excludes pressure and temperature compensation.

33 59 11 00-0002	EA 250 CF/Hour Gas Diaphragm Meter At 5 LB, Direct Digital, Threaded	411.45	59.81
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	
33 59 11 00-0003	EA 425 CF/Hour Gas Diaphragm Meter At 10 LB, Direct Digital, Threaded	786.49	91.47
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	
33 59 11 00-0004	EA 425 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded	910.58	91.47
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	
33 59 11 00-0005	EA 800 CF/Hour Gas Diaphragm Meter At 20 LB, Direct Digital, Threaded	1,910.82	114.34
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	
33 59 11 00-0006	EA 1,000 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded	2,172.84	140.73
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	
33 59 11 00-0007	EA 800 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded	2,797.50	114.34
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	
33 59 11 00-0008	EA 1,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded	3,127.00	140.73
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	
33 59 11 00-0009	EA 1,400 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded	4,097.62	149.53
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	
33 59 11 00-0010	EA 2,300 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded	5,770.65	175.91
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	



	Utilities	33	
	Hydrocarbon Utilities	33 50	CS
	Hydrocarbon Utility Metering	33 59	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 59 11 00-0011	EA		5,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded <i>For Temperature And Pressure Compensation, Add For Pulsers, Add</i>	8,835.32 8.40 26.50	290.26
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33 59 16 Hydrocarbons Turbine Meters (33 59)

33 59 16 00-0001 Gas Turbine Meters With Direct-Digital Reading (33 59 16)

Note: Maximum working pressure 175 PSI, flanged end connections.

33 59 16 00-0002	EA		4", 18,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	7,080.66	284.42
33 59 16 00-0003	EA		6", 30,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	7,438.92	330.30
33 59 16 00-0004	EA		8", 60,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	11,509.93	381.66
33 59 16 00-0005	EA		10", 90,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	22,300.86	464.63
33 59 16 00-0006	EA		12", 150,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	37,101.73	580.78

33 70 Electrical Utilities (33)

33 71 Electrical Utility Transmission And Distribution (33 70)

33 71 19 Electrical Underground Ducts, Ductbanks and Manholes (33 71)

Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 71 19 00-0001 Electrical Handholes And Pull Boxes (33 71 19)

33 71 19 00-0002 Electrical Pull Boxes (33 71 19 00-0001)

See CSI section 33 05 63 00-0427 for handholes.

33 71 19 00-0003	EA		24" x 36" x 24", Electric Pull Boxes, Precast Concrete	1,561.42	
33 71 19 00-0004	EA		24" x 36" x 36", Electric Pull Boxes, Precast Concrete	1,863.87	
33 71 19 00-0005	EA		30" x 48" x 36", Electric Pull Boxes, Precast Concrete	2,152.32	
33 71 19 00-0006	EA		36" x 72" x 24", Electric Pull Boxes, Precast Concrete	3,316.81	
33 71 19 00-0007	EA		36" x 60" x 36", Electric Pull Boxes, Precast Concrete	3,531.22	
33 71 19 00-0008	EA		48" x 48" x 36", Electric Pull Boxes, Precast Concrete	3,794.44	
33 71 19 00-0009	EA		48" x 60" x 48", Electric Pull Boxes, Precast Concrete	4,363.21	
33 71 19 00-0010	EA		18" x 28" x 34", Electric Pull Boxes, Precast Concrete	1,659.76	
33 71 19 00-0011	EA		14" x 20" x 12", Electric Pull Boxes, Precast Concrete	864.62	
33 71 19 00-0012	EA		18" x 28" x 12", Electric Pull Boxes, Precast Concrete	1,050.17	
33 71 19 00-0013	EA		24" x 36" x 12", Electric Pull Boxes, Precast Concrete	1,395.30	
33 71 19 00-0014	EA		24" x 3', Round Electric Pull Boxes, Precast Concrete	861.54	
33 71 19 00-0015	EA		30" x 3', Round Electric Pull Boxes, Precast Concrete	910.72	
33 71 19 00-0016	EA		No. 5 Electric Precast Concrete Pull Boxes With Traffic Rated Lid	1,063.89	
			<i>For 12" Extension, Add</i>	103.78	
			<i>For Traffic Rated Lid, Add</i>	75.88	
33 71 19 00-0017	EA		No. 6 Electric Precast Concrete Pull Boxes With Traffic Rated Lid	1,161.22	
			<i>For 12" Extension, Add</i>	128.11	
			<i>For Traffic Rated Lid, Add</i>	105.08	

33 71 19 00-0018 Electrical Pull Boxes (CALTRANS And SDG&E) (33 71 19 00-0001)

33 71 19 00-0019	EA		Body, CALTRANS 3-1/2 Precast Concrete Pull Box	97.13	
33 71 19 00-0020	EA		Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	34.86	
33 71 19 00-0021	EA		Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	55.38	
33 71 19 00-0022	EA		Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	108.44	
33 71 19 00-0023	EA		Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	163.46	
			<i>For Galvanized Steel Cover, Add</i>	26.63	
33 71 19 00-0024	EA		12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box	46.92	
33 71 19 00-0025	EA		Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box	46.92	
33 71 19 00-0026	EA		Body, CALTRANS 5 Precast Concrete Pull Box	140.33	
33 71 19 00-0027	EA		Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	45.28	
33 71 19 00-0028	EA		Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	65.80	
33 71 19 00-0029	EA		Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box	214.24	
			<i>For Galvanized Steel Cover, Add</i>	48.83	
33 71 19 00-0030	EA		12" Extension, CALTRANS 5 Precast Concrete Pull Box	63.20	
33 71 19 00-0031	EA		Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box	59.62	
33 71 19 00-0032	EA		Body, CALTRANS 6 Precast Concrete Pull Box	150.74	
33 71 19 00-0033	EA		Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	59.28	
33 71 19 00-0034	EA		Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	79.80	
33 71 19 00-0035	EA		Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box	291.06	
			<i>For Galvanized Steel Cover, Add</i>	68.36	
33 71 19 00-0036	EA		12" Extension, CALTRANS 6 Precast Concrete Pull Box	73.61	
33 71 19 00-0037	EA		Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	69.71	
33 71 19 00-0038	EA		6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	93.14	
33 71 19 00-0039	EA		Body, CALTRANS 3-1/2-T Precast Concrete Pull Box	192.50	
33 71 19 00-0040	EA		Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box	255.90	
33 71 19 00-0041	EA		12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box	86.63	
33 71 19 00-0042	EA		Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box	80.12	
33 71 19 00-0043	EA		Body, CALTRANS 5-T Precast Concrete Pull Box	254.91	
33 71 19 00-0044	EA		Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box	366.58	
33 71 19 00-0045	EA		12" Extension, CALTRANS 5-T Precast Concrete Pull Box	102.26	
33 71 19 00-0046	EA		Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box	99.65	
33 71 19 00-0047	EA		Body, CALTRANS 6-T Precast Concrete Pull Box	349.96	
33 71 19 00-0048	EA		Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box	509.81	
33 71 19 00-0049	EA		12" Extension, CALTRANS 6-T Precast Concrete Pull Box	167.36	

33 Utilities**33 70 Electrical Utilities****33 71 Electrical Utility Transmission And Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 00-0050	EA		Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box	132.21	
33 71 19 00-0051	EA		24" x 36" Handhole (SDG&E 3313K/T)	158.44	
33 71 19 00-0052	EA		24" x 36" Traffic Cover (SDG&E 3313CSTG)	1,038.19	
33 71 19 00-0053			Precast Concrete Box Extensions <small>(33 71 19 00-0001)</small>		
33 71 19 00-0054	EA		14" x 20" x 12", Precast Concrete Extension	188.10	
33 71 19 00-0055	EA		18" x 28" x 12", Precast Concrete Extension	236.21	
33 71 19 00-0056	EA		24" x 36" x 12", Precast Concrete Extension	307.48	
33 71 19 00-0057	EA		30" x 48" x 12", Precast Concrete Extension	377.22	
33 71 19 00-0058	EA		36" x 60" x 12", Precast Concrete Extension	611.55	
33 71 19 00-0059	EA		36" x 72" x 12", Precast Concrete Extension	822.86	
33 71 19 00-0060	EA		48" x 48" x 12", Precast Concrete Extension	939.70	
33 71 19 00-0061	EA		48" x 60" x 12", Precast Concrete Extension	1,153.58	
33 71 19 00-0062			Electrical Property Line Boxes <small>(33 71 19)</small>		
33 71 19 00-0063	EA		3'-6" x 2'-9" x 2' Deep Property Line Box	3,014.68	329.79
33 71 19 00-0064	EA		4'-6" x 3'-6" x 4' Deep Property Line Box	3,520.09	342.01
33 71 19 00-0065	EA		6' x 4' x 5' Deep Property Line Box	3,882.28	415.29
33 71 19 00-0066	EA		11'-6" x 4'-6" x 6' Deep Property Line Box	5,931.68	610.72
33 71 19 00-0067			Underground Electrical Concrete Markers <small>(33 71 19)</small>		
33 71 19 00-0068	EA		36" x 6" x 6", Underground Electric Concrete Marker	290.80	
33 71 19 00-0069			Underground Cable Protection Slab And Marking <small>(33 71 19)</small>		
33 71 19 00-0070	EA		24" x 12", 2" Concrete, Underground Cable Protection.....	4.51	
33 71 19 00-0071			Manhole Accessories <small>(33 71 19)</small>		
33 71 19 00-0072	EA		6" Precast Grade Ring Riser Casting.....	413.50	
33 71 19 00-0073	EA		12" Precast Grade Ring Riser Casting.....	447.79	
33 71 19 00-0074	EA		36" Opening Cast Iron Frame And Cover NEENAH #R-1640-D.....	1,625.88	
33 71 19 00-0075	EA		42" Opening Cast Iron Frame And Cover NEENAH #R-1740-E1.....	2,119.43	
33 71 19 00-0076	EA		Cast Iron Adjusting Ring NEENAH #R-1979.....	696.50	
33 71 19 00-0077	EA		Cast Iron Frame And Cover NEENAH #R-1640-B.....	881.60	

END OF SECTION 33



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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34 Transportation

34 01 Operation And Maintenance Of Transportation ⁽³⁴⁾

34 01 23 Operation And Maintenance Of Railways ^(34 01)

34 01 23 33 Track Realignment ^(34 01 23)

34 01 23 33-0001 Realign Railroad Track ^(34 01 23 33)

34 01 23 33-0002	LF	Remove Track Rails and Ties And Re-Install Including New Bolts And Spikes.....	77.81
34 01 23 33-0003	EA	Remove Railroad Track Turnouts And Re-install Including New Bolts And Spikes	3,823.59

34 01 43 Operation And Maintenance Of Bridges ^(34 01)

34 01 43 00-0001 Repair Of Bridge Posts ^(34 01 43)

34 01 43 00-0002	SF	Chipping Of Concrete To Expose Rebar	28.60
34 01 43 00-0003	EA	Replace Concrete Post, 20" x 20" Square, 36" To 42" High.....	1,596.33
Note: Includes removal of damaged post, drilling, epoxy injection, rebar, forms and concrete.			
34 01 43 00-0004	EA	Repair Bearing Pad	567.05

34 01 43 00-0005 Repair Of Bridge Rails ^(34 01 43)

34 01 43 00-0006	EA	Repair Concrete Rail Supports	290.98
34 01 43 00-0007	LF	Repair Guardrail	109.12
34 01 43 00-0008	LF	Repair Bridge Parapet Wall	181.86
34 01 43 00-0009	LF	Repair Bridge Rail.....	72.75
34 01 43 00-0010	LF	Repair Damaged Metal Rail And Posts	40.47
34 01 43 00-0011	LF	Replace Metal Rail, 1-1/2" Galvanized	44.70
34 01 43 00-0012	LF	Replace Metal Rail, 2-1/2" Galvanized	58.49
34 01 43 00-0013	LF	Replace Metal Rail, 3" Galvanized.....	65.76

34 01 43 00-0014 Repair Of Bridge ^(34 01 43)

34 01 43 00-0015	LF	Repair Of Expansion Joints On Bridge.....	18.81
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34 05 Common Work Results For Transportation ⁽³⁴⁾

34 05 43 Common Work Results For Bridges ^(34 05)

34 05 43 00-0001 Mobilize Bridge Crew ^(34 05 43)

Note: Excludes mobilize jacking crew.			
34 05 43 00-0002	EA	Mobilize Bridge Crew.....	1,035.20

34 05 43 00-0003 Bridge And Structures Concrete Repair ^(34 05 43)

Note: This section is used for repairing areas of concrete decks, floors, verticals and overheads and approximately 1" to 6" deep in connection with bridge and structure repairs. Includes chipping, sandblasting, cleaning, primer, formwork and debris removal. Excludes scaffolding, saw cutting, disposal and/or concrete pump truck.

34 05 43 00-0004 Patch Decks Or Floors ^(34 05 43 00-0003)

Note: For patching decks and floors, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.			
34 05 43 00-0005	EA	Patch Up To 16 SF Of Decks Or Floors, Up To 6" Portland Cement Based Repair Material.....	1,754.26
34 05 43 00-0006	SF	Patch >16 SF Decks Or Floors, Up To 6" Portland Cement Based Repair Material.....	73.58
34 05 43 00-0007	EA	Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material	1,797.04
34 05 43 00-0008	SF	Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material.....	76.26
34 05 43 00-0009	EA	Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methylmethacrylate.....	1,787.58
34 05 43 00-0010	SF	Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methylmethacrylate.....	75.67
34 05 43 00-0011	EA	Patch Up To 16 SF Of Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified).....	2,512.63
<i>For Owner Furnished Material, Deduct</i>			<i>-888.67</i>
34 05 43 00-0012	SF	Patch >16 SF Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified)	120.98
<i>For Owner Furnished Material, Deduct</i>			<i>-55.54</i>

34 05 43 00-0013 Patch Verticals Or Overheads ^(34 05 43 00-0003)

Note: For patching verticals and overhead, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.			
34 05 43 00-0014	EA	Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material	2,074.85
34 05 43 00-0015	SF	Patch >16 SF Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material.....	89.60
34 05 43 00-0016	EA	Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material.....	2,117.63
34 05 43 00-0017	SF	Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material	92.28
34 05 43 00-0018	EA	Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methylmethacrylate	2,108.17
34 05 43 00-0019	SF	Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methylmethacrylate.....	91.69
34 05 43 00-0020	EA	Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified).....	2,833.22
<i>For Owner Furnished Material, Deduct</i>			<i>-888.67</i>

34 Transportation
34 05 Common Work Results For Transportation
34 05 43 Common Work Results For Bridges



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0021 SF Patch >16 SF Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified) <i>For Owner Furnished Material, Deduct</i>	137.00 -55.54	
34 05 43 00-0022 Patch Pier Caps And Pedestals <small>(34 05 43 00-0003)</small> Note: For patching pier caps and pedestals, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0023 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material.....	2,395.46	
34 05 43 00-0024 SF Patch >16 SF Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material.....	101.62	
34 05 43 00-0025 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material.....	2,438.24	
34 05 43 00-0026 SF Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material.....	104.30	
34 05 43 00-0027 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methylmethacrylate.....	2,428.78	
34 05 43 00-0028 SF Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methylmethacrylate.....	103.71	
34 05 43 00-0029 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified)..... <i>For Owner Furnished Material, Deduct</i>	3,153.83 -888.67	
34 05 43 00-0030 SF Patch >16 SF Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified)..... <i>For Owner Furnished Material, Deduct</i>	149.02 -55.54	
34 05 43 00-0031 Patch Circular Piers <small>(34 05 43 00-0003)</small> Note: For patching circular piers, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0032 EA Patch Up To 16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material.....	2,876.36	
34 05 43 00-0033 SF Patch >16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material.....	113.64	
34 05 43 00-0034 EA Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material.....	2,919.14	
34 05 43 00-0035 SF Patch >16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material.....	116.32	
34 05 43 00-0036 EA Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Polymer Concrete Methylmethacrylate.....	2,909.68	
34 05 43 00-0037 SF Patch >16 SF Circular Pier, Up To 6" Rapid Set Polymer Concrete Methylmethacrylate.....	129.28	
34 05 43 00-0038 EA Patch Up To 16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified)..... <i>For Owner Furnished Material, Deduct</i>	3,634.73 -888.67	
34 05 43 00-0039 SF Patch >16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified)..... <i>For Owner Furnished Material, Deduct</i>	161.04 -55.54	
34 05 43 00-0040 Fiber Reinforced Shotcrete Repair <small>(34 05 43)</small>		
34 05 43 00-0041 EA Mobilize Fiber Reinforced Shotcrete Repair Crew.....	646.37	
34 05 43 00-0042 SF Up to 2" Thick, Fiber Reinforced Shotcrete Repair..... <i>For Up To 25, Add</i> <i>For >25 To 50, Add</i> <i>For >50 To 150, Add</i>	49.86 24.25 12.12 4.85	
34 05 43 00-0043 SF >2" To 4" Thick, Fiber Reinforced Shotcrete Repair..... <i>For Up To 25, Add</i> <i>For >25 To 50, Add</i> <i>For >50 To 150, Add</i>	59.31 28.28 14.14 5.66	
34 05 43 00-0044 SF >4" To 6" Thick, Fiber Reinforced Shotcrete Repair..... <i>For Up To 25, Add</i> <i>For >25 To 50, Add</i> <i>For >50 To 150, Add</i>	68.76 32.32 16.16 6.46	
34 05 43 00-0045 Bridge Railing <small>(34 05 43)</small>		
34 05 43 00-0046 Remove And Store Bridge Railings <small>(34 05 43 00-0045)</small> See CSI section 34 82 23 00-0007 for posts.		
34 05 43 00-0047 LF Remove And Store One Rail Bridge Railing.....	6.17	
34 05 43 00-0048 LF Remove And Store Two Rail Bridge Railing.....	12.33	
34 05 43 00-0049 LF Remove And Store Three Rail Bridge Railing.....	18.49	
34 05 43 00-0050 LF Remove And Store Four Rail Bridge Railing.....	24.65	
34 05 43 00-0051 Install Stored Or Supplied Bridge Railings <small>(34 05 43 00-0045)</small> See CSI section 34 82 23 00-0007 for posts.		
34 05 43 00-0052 LF Install Stored Or Supplied One Rail Bridge Railing.....	51.94	
34 05 43 00-0053 LF Install Stored Or Supplied Two Rail Bridge Railing.....	103.88	
34 05 43 00-0054 LF Install Stored Or Supplied Three Rail Bridge Railing.....	155.82	
34 05 43 00-0055 LF Install Stored Or Supplied Four Rail Bridge Railing.....	207.77	
34 05 43 00-0056 Bridge Bearings <small>(34 05 43)</small> Note: Excludes drilling and anchor bolts.		
34 05 43 00-0057 Elastomeric Bearings <small>(34 05 43 00-0056)</small>		
34 05 43 00-0058 EA Plain Elastomeric, Type EP Bearing, 716-10, All Loads.....	763.49	253.52
34 05 43 00-0059 EA Steel Laminated Elastomeric, Type EL Bearing, 716-11, Up To 100K..... <i>For >100K To 250K Load, Add</i> <i>For >250K To 500K Load, Add</i> <i>For >500K To 750K Load, Add</i>	1,196.38 49.92 99.84 149.76	507.03
34 05 43 00-0060 EA Elastomeric with External Load Plates, Type EB Bearing, 716-12, Up To 100K..... <i>For >100K To 250K Load, Add</i> <i>For >250K To 500K Load, Add</i> <i>For >500K To 750K Load, Add</i>	2,560.02 151.43 302.85 454.28	760.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0061 Fixed Structural Pot Bearings <small>(34 05 43 00-0056)</small>		
34 05 43 00-0062 EA 100K To 250K Fixed Structural Pot Bearing	2,079.16	
34 05 43 00-0063 EA >250K To 500K Fixed Structural Pot Bearing	3,226.49	
34 05 43 00-0064 EA >500K To 750K Fixed Structural Pot Bearing	4,373.79	
34 05 43 00-0065 Universal Structural Expansion Pot Bearings <small>(34 05 43 00-0056)</small>		
34 05 43 00-0066 EA 100K To 250K Universal Structural Pot Bearing	2,654.69	
34 05 43 00-0067 EA >250K To 500K Universal Structural Pot Bearing	4,114.09	
34 05 43 00-0068 EA >500K To 750K Universal Structural Pot Bearing	5,576.64	
34 05 43 00-0069 Guided Structural Expansion Pot Bearings <small>(34 05 43 00-0056)</small>		
34 05 43 00-0070 EA 100K To 250K Guided Structural Pot Bearing	2,745.14	
34 05 43 00-0071 EA >250K To 500K Guided Structural Pot Bearing	4,249.74	
34 05 43 00-0072 EA >500K To 750K Guided Structural Pot Bearing	5,757.50	
34 05 43 00-0073 Remove, Repair And Install Bridge Bearings <small>(34 05 43 00-0056)</small>		
34 05 43 00-0074 Remove Structural Bearings <small>(34 05 43 00-0073)</small>		
34 05 43 00-0075 EA 100K To 250K Structural Bearing Removal	364.43	
34 05 43 00-0076 EA >250K To 500K Structural Bearing Removal	728.87	
34 05 43 00-0077 EA >500K To 750K Structural Bearing Removal	1,093.30	
34 05 43 00-0078 Install And Set Supplied Or Restored Structural Bearings <small>(34 05 43 00-0073)</small>		
34 05 43 00-0079 EA 100K To 250K Structural Bearing - Install And Set Supplied Or Restored Bearing	546.65	
34 05 43 00-0080 EA >250K To 500K Structural Bearing - Install And Set Supplied Or Restored Bearing	1,093.30	
34 05 43 00-0081 EA >500K To 750K Structural Bearing - Install And Set Supplied Or Restored Bearing	1,639.95	
34 05 43 00-0082 Power Wash And Paint Structural Bearings <small>(34 05 43 00-0073)</small>		
Note: Includes bearing plates.		
34 05 43 00-0083 EA 100K To 250K Structural Bearing - Power Wash And Paint	850.52	
34 05 43 00-0084 EA >250K To 500K Structural Bearing - Power Wash And Paint	959.67	
34 05 43 00-0085 EA >500K To 750K Structural Bearing - Power Wash And Paint	1,068.83	
34 05 43 00-0086 Power Wash, Mechanically Clean And Paint Structural Bearings <small>(34 05 43 00-0073)</small>		
Note: Includes bearing plates. Excludes paint removal.		
34 05 43 00-0087 EA 100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,132.25	
For Vacuum Contained Cleaning, Add	281.70	
34 05 43 00-0088 EA >250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,276.57	
For Vacuum Contained Cleaning, Add	316.90	
34 05 43 00-0089 EA >500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,420.58	
For Vacuum Contained Cleaning, Add	352.02	
34 05 43 00-0090 Power Wash And Paint Only Bearing Plates <small>(34 05 43 00-0073)</small>		
34 05 43 00-0091 EA 100K To 250K Structural Bearing - Power Wash And Paint Only Bearing Plates.....	530.90	
34 05 43 00-0092 EA >250K To 500K Structural Bearing - Power Wash And Paint Only Bearing Plates.....	638.29	
34 05 43 00-0093 EA >500K To 750K Structural Bearing - Power Wash And Paint Only Bearing Plates.....	745.68	
34 05 43 00-0094 Power Wash, Mechanically Clean And Paint Only Bearing Plates <small>(34 05 43 00-0073)</small>		
34 05 43 00-0095 EA 100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates.....	707.95	
For Vacuum Contained Cleaning, Add	176.06	
34 05 43 00-0096 EA >250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates.....	849.55	
For Vacuum Contained Cleaning, Add	211.27	
34 05 43 00-0097 EA >500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates.....	990.82	
For Vacuum Contained Cleaning, Add	246.39	
34 05 43 00-0098 Sand Blast And Paint Structural Bearings <small>(34 05 43 00-0073)</small>		
Note: Includes bearing plates.		
34 05 43 00-0099 EA 100K To 250K Structural Bearing - Sand Blast And Paint	1,357.56	
For Vacuum Contained Cleaning, Add	338.03	
34 05 43 00-0100 EA >250K To 500K Structural Bearing - Sand Blast And Paint	1,530.08	
For Vacuum Contained Cleaning, Add	380.28	
34 05 43 00-0101 EA >500K To 750K Structural Bearing - Sand Blast And Paint	1,702.62	
For Vacuum Contained Cleaning, Add	422.53	
34 05 43 00-0102 Sand Blast And Paint Only Bearing Plates <small>(34 05 43 00-0073)</small>		
34 05 43 00-0103 EA 100K To 250K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	848.76	
For Vacuum Contained Cleaning, Add	211.27	
34 05 43 00-0104 EA >250K To 500K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,018.57	
For Vacuum Contained Cleaning, Add	253.52	

34 Transportation**34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0105 EA >500K To 750K Structural Bearing - Sand Blast And Paint Only Bearing Plates..... <i>For Vacuum Contained Cleaning, Add</i>	1,188.36 295.77	
34 05 43 00-0106 Grease Structural Bearings <small>(34 05 43 00-0073)</small>		
34 05 43 00-0107 EA 100K To 250K Structural Bearing - Grease	52.82	
34 05 43 00-0108 EA >250K To 500K Structural Bearing - Grease	79.22	
34 05 43 00-0109 EA >500K To 750K Structural Bearing - Grease	105.64	
34 05 43 00-0110 Replace Bronze Plate Wearing Pad <small>(34 05 43 00-0073)</small>		
34 05 43 00-0111 SF Replace Bronze Plate Wearing Pad.....	298.15	
34 05 43 00-0112 Bridge Bearing Rivet Removal <small>(34 05 43 00-0073)</small>		
See CSI section 02 41 19 13-0079 for reaming of hole, 34 05 43 00-0343 for anchors and grouting.		
34 05 43 00-0113 EA Bridge Bearing Rivet Removal	211.27	
34 05 43 00-0114 Bridge Pintels, Side Keeper, And Shim Plates <small>(34 05 43)</small>		
34 05 43 00-0115 EA Remove And Replace Bridge Pintel.....	201.54	
34 05 43 00-0116 EA Remove And Replace Bridge Side Keeper	204.86	
34 05 43 00-0117 EA Refabricate And Install Shim Plates At One Bearing	128.09	
34 05 43 00-0118 EA Refabricate And Install Beveled Shim Plates At One Bearing	128.09	
34 05 43 00-0119 EA Refabricate And Install Finger Shim Plates At One Bearing	128.09	
34 05 43 00-0120 Vertical Jacking And Lifting <small>(34 05 43)</small>		
Note: For vertical jacking of structural members. Includes jacks, hydraulics, and synchronizing equipment where appropriate. Excludes engineering and design. See CSI section 03 01 30 71-0000 for concrete repair, 05 12 23 00-0000 for temporary steel members.		
34 05 43 00-0121 Mobilize Jacking Crew And Equipment <small>(34 05 43 00-0120)</small>		
Note: Includes removing equipment after completion.		
34 05 43 00-0122 EA Mobilize Bridge Jacking Crew and Equipment..... <i>For Temporary Support Mobilization, Add</i>	1,901.40 3,802.80	
34 05 43 00-0123 Vertical Jacking And Lifting Per Point of Contact <small>(34 05 43 00-0120)</small>		
Note: Includes positioning jack, shims, lifting, and lowering. Excludes temporary steel, temporary lumber, and concrete repairs.		
34 05 43 00-0124 EA Up To 10 Ton Jack, Per Point Of Contact..... <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	316.90 63.38 126.76	
34 05 43 00-0125 EA >10 To 20 Ton Jack, Per Point Of Contact	369.71	
<i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	73.94 147.88	
34 05 43 00-0126 EA >20 To 40 Ton Jack, Per Point Of Contact	422.53	
<i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	84.51 169.01	
34 05 43 00-0127 EA >40 To 60 Ton Jack, Per Point Of Contact	475.35	
<i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	95.07 190.14	
34 05 43 00-0128 EA >60 To 80 Ton Jack, Per Point Of Contact	528.17	
<i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	105.63 211.27	
34 05 43 00-0129 EA >80 To 100 Ton Jack, Per Point Of Contact	580.98	
<i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	116.20 232.39	
34 05 43 00-0130 EA >100 To 120 Ton Jack, Per Point Of Contact	633.80	
<i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	126.76 253.52	
34 05 43 00-0131 EA >120 To 140 Ton Jack, Per Point Of Contact	660.21	
<i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	132.04 264.08	
34 05 43 00-0132 EA >140 To 160 Ton Jack, Per Point Of Contact	686.61	
<i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	137.32 274.64	
34 05 43 00-0133 EA >160 To 250 Ton Jack, Per Point Of Contact	686.61	
<i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	137.32 274.64	
34 05 43 00-0134 EA >250 To 300 Ton Jack, Per Point Of Contact	739.43	
<i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	147.89 295.77	
34 05 43 00-0135 EA >300 To 400 Ton Jack, Per Point Of Contact	792.25	
<i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	158.45 316.90	
34 05 43 00-0136 EA >400 To 500 Ton Jack, Per Point Of Contact	845.06	
<i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	169.01 338.02	
34 05 43 00-0137 EA >500 To 600 Ton Jack, Per Point Of Contact	897.88	
<i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	179.58 359.15	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0138		Daily Charge For Vertical Jacking Equipment <small>(34 05 43 00-0120)</small> Note: Includes hydraulics and synchronizing equipment.		
34 05 43 00-0139	DAY	Up To 10 Ton Jacking Equipment Charge By The Day	11.65	
34 05 43 00-0140	DAY	>10 To 20 Ton Jacking Equipment Charge By The Day	23.30	
34 05 43 00-0141	DAY	>20 To 40 Ton Jacking Equipment Charge By The Day	46.60	
34 05 43 00-0142	DAY	>40 To 60 Ton Jacking Equipment Charge By The Day	69.91	
34 05 43 00-0143	DAY	>60 To 80 Ton Jacking Equipment Charge By The Day	93.21	
34 05 43 00-0144	DAY	>80 To 100 Ton Jacking Equipment Charge By The Day	116.51	
34 05 43 00-0145	DAY	>100 To 120 Ton Jacking Equipment Charge By The Day	139.81	
34 05 43 00-0146	DAY	>120 To 140 Ton Jacking Equipment Charge By The Day	163.11	
34 05 43 00-0147	DAY	>140 To 160 Ton Jacking Equipment Charge By The Day	186.41	
34 05 43 00-0148	DAY	>160 To 250 Ton Jacking Equipment Charge By The Day	212.72	
34 05 43 00-0149	DAY	>250 To 300 Ton Jacking Equipment Charge By The Day	242.50	
34 05 43 00-0150	DAY	>300 To 400 Ton Jacking Equipment Charge By The Day	307.16	
34 05 43 00-0151	DAY	>400 To 500 Ton Jacking Equipment Charge By The Day	364.75	
34 05 43 00-0152	DAY	>500 To 600 Ton Jacking Equipment Charge By The Day	415.83	
34 05 43 00-0153		Temporary Shoring <small>(34 05 43 00-0120)</small> Note: Setup includes material use cost and initial erection. Setup is also used for relocation to the opposite abutment. Relocation includes moving and setup at a new jacking location. Takedown includes disassembly and removal from the site. Excludes earthwork and temporary stone.		
34 05 43 00-0154		HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring <small>(34 05 43 00-0153)</small>		
34 05 43 00-0155	EA	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	2,212.86	
34 05 43 00-0156	EA	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	1,650.36	
34 05 43 00-0157	EA	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	353.48	
34 05 43 00-0158		HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring <small>(34 05 43 00-0153)</small>		
34 05 43 00-0159	EA	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	2,250.87	
34 05 43 00-0160	EA	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	1,554.55	
34 05 43 00-0161	EA	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	339.08	
34 05 43 00-0162		HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring <small>(34 05 43 00-0153)</small>		
34 05 43 00-0163	EA	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	1,391.30	
34 05 43 00-0164	EA	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	685.86	
34 05 43 00-0165	EA	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	215.87	
34 05 43 00-0166		HP14x117 Column Attached to Existing Footing, Permanent Steel Stiffeners, Braced by Angles Attached to Abutment Face, Temporary Shoring <small>(34 05 43 00-0153)</small>		
34 05 43 00-0167	EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	4,002.68	
34 05 43 00-0168	EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	2,518.37	
34 05 43 00-0169	EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	581.02	
34 05 43 00-0170		Mat Supported HP12x63 Column, Braced by Channel and Angles, Attached to Existing 4" Diameter Concrete Column, Temporary Shoring <small>(34 05 43 00-0153)</small> Note: Excludes mats. See CSI section 01 22 23 00-0541 for mats.		
34 05 43 00-0171	EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Setup	4,265.57	
34 05 43 00-0172	EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Relocation	1,756.58	

34 Transportation**34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0173 EA Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Take Down And Removal Note: Excludes mats.	886.83	
34 05 43 00-0174 Mat Supported HP12x53 Column, Braced by Channel and Angles, Attached to Abutment Face, Temporary Shoring <small>(34 05 43 00-0153)</small> Note: Excludes mats. See CSI section 01 22 23 00-0541 for mats.		
34 05 43 00-0175 EA Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup.....	1,687.39	
34 05 43 00-0176 EA Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation..... Note: Excludes mats.	538.77	
34 05 43 00-0177 EA Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal Note: Excludes mats.	304.00	
34 05 43 00-0178 MC18x51.9 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring <small>(34 05 43 00-0153)</small>		
34 05 43 00-0179 EA MC18x51.9 Attached To Abutment Face, Temporary Shoring Setup	2,251.70	
34 05 43 00-0180 EA MC18x51.9 Attached To Abutment Face, Temporary Shoring Relocation.....	2,087.97	
34 05 43 00-0181 EA MC18x51.9 Attached To Abutment Face, Temporary Shoring Take Down And Removal	296.81	
34 05 43 00-0182 MC15x74 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring <small>(34 05 43 00-0153)</small>		
34 05 43 00-0183 EA WT15x74 Attached To Abutment Face, Temporary Shoring Setup	1,632.06	
34 05 43 00-0184 EA WT15x74 Attached To Abutment Face, Temporary Shoring Relocation.....	1,494.76	
34 05 43 00-0185 EA WT15x74 Attached To Abutment Face, Temporary Shoring Take Down And Removal	244.64	
34 05 43 00-0186 Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge Column, Temporary Shoring <small>(34 05 43 00-0153)</small>		
34 05 43 00-0187 EA Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge, Temporary Shoring Setup..... Note: Left in place.	1,090.33	
34 05 43 00-0188 Temporary Bridge Shoring Components <small>(34 05 43 00-0153)</small> Note: For temporary shoring of columns and abutments associated with vertical jacking of structural members. Includes lifting equipment where appropriate. Excludes engineering and design. See CSI section 01 54 23 00-0040 for temporary lumber.		
34 05 43 00-0189 Fabricate, Install And Remove After Use Temporary Steel Bridge Shoring <small>(34 05 43 00-0188)</small> Note: Includes cutting, drilling and welds. Excludes gravel, mats, anchors, and bolts.		
34 05 43 00-0190 LF Fabricate And Install MC7 x 19.1 For Temorary Bridge Shoring..... Note: Remove after use.	64.12	
34 05 43 00-0191 LF Fabricate And Install MC18 x 51.9 For Temorary Bridge Shoring..... Note: Remove after use.	160.26	
34 05 43 00-0192 LF Fabricate And Install HP12 x 53 For Temorary Bridge Shoring	122.03	
34 05 43 00-0193 LF Fabricate And Install HP12 x 63 For Temorary Bridge Shoring	135.57	
34 05 43 00-0194 LF Fabricate And Install 3" x 3" x 3/8" Angle Iron For Temorary Bridge Shoring	20.12	
<i>For Galvanized Steel, Add</i>	4.78	
34 05 43 00-0195 LF Fabricate And Install 4" x 4" x 3/8" Angle Iron For Temorary Bridge Shoring	25.55	
<i>For Galvanized Steel, Add</i>	6.50	
34 05 43 00-0196 LF Fabricate And Install 7" x 4" x 5/8" Angle Iron For Temorary Bridge Shoring	51.50	
<i>For Galvanized Steel, Add</i>	14.71	
34 05 43 00-0197 LF Fabricate And Install 5" x 3-1/2" x 3/4" Angle Iron For Temorary Bridge Shoring	44.62	
<i>For Galvanized Steel, Add</i>	13.18	
34 05 43 00-0198 LF Fabricate And Install 7" x 4" x 3/4" Angle Iron For Temorary Bridge Shoring	59.05	
<i>For Galvanized Steel, Add</i>	17.43	
34 05 43 00-0199 SF Fabricate And Install 5/8" A36 Steel Plates For Temorary Bridge Shoring	66.24	
<i>For A50 Grade Steel, Add</i>	1.61	
34 05 43 00-0200 SF Fabricate And Install 7/8" A36 Steel Plates For Temorary Bridge Shoring	92.72	
<i>For A50 Grade Steel, Add</i>	2.26	
34 05 43 00-0201 SF Fabricate And Install 1-3/8" A36 Steel Plates For Temorary Bridge Shoring	145.71	
<i>For A50 Grade Steel, Add</i>	3.55	
34 05 43 00-0202 SF Fabricate And Install 1-1/2" A36 Steel Plates For Temorary Bridge Shoring	158.96	
<i>For A50 Grade Steel, Add</i>	3.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0203 Relocate Temporary Steel Bridge Shoring <small>(34 05 43 00-0188)</small>		
<i>Note: Includes removal after use.</i>		
34 05 43 00-0204 EA Relocate Complete Temporary Steel Bridge Shoring	3,727.30	
<i>Note: Remove after use. Includes relocating support mats. Excludes anchors, bolts or additional steel if required.</i>		
34 05 43 00-0205 SF Relocate 1-3/8" A36 Steel Plates For Temporary Bridge Shoring	74.74	
<i>Note: Remove after use.</i>		
34 05 43 00-0206 LF Relocate HP12 x 63 For Temporary Bridge Shoring.....	59.63	
<i>Note: Remove after use.</i>		
34 05 43 00-0207 LF Relocate 3" x 3" x 3/8" Angle Iron For Temporary Bridge Shoring.....	12.41	
<i>Note: Remove after use.</i>		
34 05 43 00-0208 LF Relocate 4" x 4" x 3/8" Angle Iron For Temporary Bridge Shoring.....	15.06	
<i>Note: Remove after use.</i>		
34 05 43 00-0209 LF Relocate 7" x 4" x 3/4" Angle Iron For Temporary Bridge Shoring.....	30.93	
<i>Note: Remove after use.</i>		
34 05 43 00-0210 SF Relocate 7/8" A36 Steel Plates For Temporary Bridge Shoring.....	47.56	
<i>Note: Remove after use.</i>		
34 05 43 00-0211 LF Relocate MC7 x 19.1 For Temporary Bridge Shoring	34.59	
<i>Note: Remove after use.</i>		
34 05 43 00-0212 LF Relocate HP12 x 53 For Temporary Bridge Shoring.....	58.39	
<i>Note: Remove after use.</i>		
34 05 43 00-0213 SF Relocate 5/8" A36 Steel Plates For Temporary Bridge Shoring.....	33.98	
<i>Note: Remove after use.</i>		
34 05 43 00-0214 LF Relocate 7" x 4" x 5/8" Angle Iron For Temporary Bridge Shoring.....	27.78	
<i>Note: Remove after use.</i>		
34 05 43 00-0215 SF Relocate 1-1/2" A36 Steel Plates For Temporary Bridge Shoring	81.54	
<i>Note: Remove after use.</i>		
34 05 43 00-0216 LF Relocate MC18 x 51.9 For Temporary Bridge Shoring.....	99.81	
<i>Note: Remove after use.</i>		
34 05 43 00-0217 LF Relocate 5" x 3-1/2" x 3/4" Angle Iron For Temporary Bridge Shoring.....	23.37	
<i>Note: Remove after use.</i>		
34 05 43 00-0218 Pier Caps And Pedestal Replacement For Bridges <small>(34 05 43)</small>		
<i>See CSI section 03 15 19 00-0001 for anchor bolts.</i>		
34 05 43 00-0219 SF Bridge Wood Formwork For Seats, Pedestals, Pier Caps And Miscellaneous Areas	22.36	
34 05 43 00-0220 CWT Rebar For Pier Cap Or Pedestals	366.47	
34 05 43 00-0221 CY Pour Pedestals	359.16	
34 05 43 00-0222 CY Demolish Concrete Pedestals.....	3,342.52	
34 05 43 00-0223 CY Pour Pier Cap	424.55	
34 05 43 00-0224 CY Demolish Concrete Pier Cap	3,843.52	
34 05 43 00-0225 Bridge Deck Repair <small>(34 05 43)</small>		
34 05 43 00-0226 Bridge Expansion Joint Repair <small>(34 05 43 00-0225)</small>		
<i>Note: Replace header with semi-flexible polymer nosing system. Includes sawcutting, chipping, sandblasting, forming, backer rod cleaning, primer and debris removal. Excludes disposal.</i>		
34 05 43 00-0227 CF Replace Header With Semi-Flexible Polymer Nosing System	591.24	
34 05 43 00-0228 CF Replace Header With Fast-Setting, Rapid-Hardening Structural Repair Mortar	197.24	
<i>Note: Includes sawcutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.</i>		
<i>For Up To 24, Add</i>		32.11
34 05 43 00-0229 CF Replace Header With Polyester-Based Polymer Patch	209.99	
<i>Note: Includes sawcutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.</i>		
<i>For Up To 24, Add</i>		33.39
34 05 43 00-0230 CI Seal Expansion Joints With Rapid Cure Silicone.....	5.02	
34 05 43 00-0231 CI Seal Expansion Joints With Closed Cell Foam/EVA.....	0.60	
34 05 43 00-0232 LF Seal Expansion Joints With "V" Shape Preformed Silicone.....	66.40	
34 05 43 00-0233 LF Seal Expansion Joints With "W" Shape Preformed Silicone.....	70.32	
34 05 43 00-0234 Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
<i>Note: Includes steel profile and neoprene seal element. Demolition includes sawcutting and disposal of existing strip seal but excludes concrete removal.</i>		
34 05 43 00-0235 LF 1-1/4" x 3-3/4" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck.....	138.49	
34 05 43 00-0236 LF 1-7/8" x 8" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck.....	156.96	
34 05 43 00-0237 LF 1-1/4" x 2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck.....	133.60	
34 05 43 00-0238 LF 1" x 1-1/2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck.....	131.88	
34 05 43 00-0239 Silicone Joint Sealant For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
<i>Note: Installation includes sawcutting, high pressure water wash, sand blast, sweeping, cleaning area, backer rod and silicone sealant.</i>		
34 05 43 00-0240 LF 1" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck.....	17.73	
34 05 43 00-0241 LF 1-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck.....	21.16	
34 05 43 00-0242 LF 2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck.....	25.04	
34 05 43 00-0243 LF 2-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck.....	27.22	

34 Transportation**34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

34 05 43 00-0244	V Shaped Prefomed Extruded EPDM Expansion Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>	
	Note: Includes sawcutting, sandblasting, conditioner, epoxy, and backer rod.	
34 05 43 00-0245	LF 3" Remove And Replace V Shaped Prefomed Extruded EPDM Expansion Joint For Concrete Bridge Deck	61.31
34 05 43 00-0246	LF 4" Remove And Replace V Shaped Prefomed Extruded EPDM Expansion Joint For Concrete Bridge Deck	64.68
34 05 43 00-0247	J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>	
	Note: Includes sawcutting, sandblasting, conditioner, and epoxy.	
34 05 43 00-0248	LF 2" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	61.15
34 05 43 00-0249	LF 2-1/2" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	71.43
34 05 43 00-0250	LF 3" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	86.53
34 05 43 00-0251	LF 3-1/2" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	103.29
34 05 43 00-0252	LF 4" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	114.60
34 05 43 00-0253	LF 5" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	202.86
34 05 43 00-0254	Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>	
	Note: Includes sawcutting, sandblasting, and lubricant adhesive.	
34 05 43 00-0255	LF 1-1/4" x 1-1/4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	35.82
34 05 43 00-0256	LF 1-5/8" x 1-7/8" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	38.60
34 05 43 00-0257	LF 1-3/4" x 1-3/4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	40.21
34 05 43 00-0258	LF 2" x 2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	42.12
34 05 43 00-0259	LF 2-1/2" x 2-1/2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	46.72
34 05 43 00-0260	LF 3" x 3-1/4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	52.58
34 05 43 00-0261	LF 3-1/2" x 3-1/2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	60.51
34 05 43 00-0262	LF 4" x 4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	68.59
34 05 43 00-0263	LF 4-1/2" x 4-1/2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	72.30
34 05 43 00-0264	LF 5" x 5" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	81.52
34 05 43 00-0265	LF 6" x 6" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	111.59
34 05 43 00-0266	Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>	
	Note: Includes sawcutting, sandblasting and epoxy.	
34 05 43 00-0267	LF 1/2" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	33.59
34 05 43 00-0268	LF 5/8" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	34.57
34 05 43 00-0269	LF 3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	35.54
34 05 43 00-0270	LF 1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	36.84
34 05 43 00-0271	LF 1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	38.16
34 05 43 00-0272	LF 1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	54.26
34 05 43 00-0273	LF 1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	57.85
34 05 43 00-0274	LF 2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	60.10
34 05 43 00-0275	LF 2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	63.67
34 05 43 00-0276	LF 2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	67.70
34 05 43 00-0277	LF 2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	71.92
34 05 43 00-0278	LF 3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	74.09
34 05 43 00-0279	LF 3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	81.32
34 05 43 00-0280	LF 3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	87.29
34 05 43 00-0281	LF 3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	92.41
34 05 43 00-0282	LF 4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	94.66
34 05 43 00-0283	EA 3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	120.67
34 05 43 00-0284	EA 1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	124.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0285 EA 1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	144.11	
34 05 43 00-0286 EA 1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	150.38	
34 05 43 00-0287 EA 1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	155.50	
34 05 43 00-0288 EA 2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	178.08	
34 05 43 00-0289 EA 2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	182.91	
34 05 43 00-0290 EA 2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	188.56	
34 05 43 00-0291 EA 2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	194.53	
34 05 43 00-0292 EA 3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	223.66	
34 05 43 00-0293 EA 3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	234.78	
34 05 43 00-0294 EA 3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	243.75	
34 05 43 00-0295 EA 3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	251.27	
34 05 43 00-0296 EA 4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	254.54	
34 05 43 00-0297 Remove Existing Steel Joint System <small>(34 05 43 00-0225)</small>		
34 05 43 00-0298 LF Remove Existing Steel Joint System	69.10	
34 05 43 00-0299 Break-Up And Remove Bridge Decking By Machine <small>(34 05 43 00-0225)</small>		
<small>Note: Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting, See CSI section 02 41 19 13-0056 for saw cutting.</small>		
34 05 43 00-0300 SY Break-Up And Remove Up To 3" Thick Bituminous Pavement Bridge Decking By Machine.....	14.74	
<i>For >500 To 1,000, Deduct</i>	-1.47	
<i>For >1,000 To 2,500, Deduct</i>	-2.65	
<i>For >2,500 To 5,000, Deduct</i>	-3.83	
<i>For >5,000 To 10,000, Deduct</i>	-5.01	
<i>For >10,000, Deduct</i>	-6.19	
34 05 43 00-0301 SY Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Machine.....	20.12	
<i>For >500 To 1,000, Deduct</i>	-2.01	
<i>For >1,000 To 2,500, Deduct</i>	-3.62	
<i>For >2,500 To 5,000, Deduct</i>	-5.23	
<i>For >5,000 To 10,000, Deduct</i>	-6.84	
<i>For >10,000, Deduct</i>	-8.45	
34 05 43 00-0302 SY Break-Up And Remove To 3" Thick Concrete With Reinforcing Bridge Decking By Machine	24.41	
<i>For >500 To 1,000, Deduct</i>	-2.44	
<i>For >1,000 To 2,500, Deduct</i>	-4.39	
<i>For >2,500 To 5,000, Deduct</i>	-6.35	
<i>For >5,000 To 10,000, Deduct</i>	-8.30	
<i>For >10,000, Deduct</i>	-10.25	
34 05 43 00-0303 SY Break-Up And Remove > 3" To 6" Thick Concrete With Reinforcing Bridge Decking By Machine	31.38	
<i>For >500 To 1,000, Deduct</i>	-3.14	
<i>For >1,000 To 2,500, Deduct</i>	-5.65	
<i>For >2,500 To 5,000, Deduct</i>	-8.16	
<i>For >5,000 To 10,000, Deduct</i>	-10.67	
<i>For >10,000, Deduct</i>	-13.18	
34 05 43 00-0304 SY Break-Up And Remove > 6" To 9" Thick Concrete With Reinforcing Bridge Decking By Machine	56.12	
<i>For >500 To 1,000, Deduct</i>	-5.61	
<i>For >1,000 To 2,500, Deduct</i>	-10.10	
<i>For >2,500 To 5,000, Deduct</i>	-14.59	
<i>For >5,000 To 10,000, Deduct</i>	-19.08	
<i>For >10,000, Deduct</i>	-23.57	
34 05 43 00-0305 SY Break-Up And Remove >9" To 14" Thick Concrete With Reinforcing Bridge Decking By Machine	73.23	
<i>For >500 To 1,000, Deduct</i>	-7.32	
<i>For >1,000 To 2,500, Deduct</i>	-13.18	
<i>For >2,500 To 5,000, Deduct</i>	-19.04	
<i>For >5,000 To 10,000, Deduct</i>	-24.90	
<i>For >10,000, Deduct</i>	-30.76	
34 05 43 00-0306 SY Break-Up And Remove >14" To 19" Thick Concrete With Reinforcing Bridge Decking By Machine	95.74	
<i>For >500 To 1,000, Deduct</i>	-9.57	
<i>For >1,000 To 2,500, Deduct</i>	-17.23	
<i>For >2,500 To 5,000, Deduct</i>	-24.89	
<i>For >5,000 To 10,000, Deduct</i>	-32.55	
<i>For >10,000, Deduct</i>	-40.21	
34 05 43 00-0307 SY Break-Up And Remove >19" To 24" Thick Concrete With Reinforcing Bridge Decking By Machine	116.20	
<i>For >500 To 1,000, Deduct</i>	-11.62	
<i>For >1,000 To 2,500, Deduct</i>	-20.92	
<i>For >2,500 To 5,000, Deduct</i>	-30.21	
<i>For >5,000 To 10,000, Deduct</i>	-39.51	
<i>For >10,000, Deduct</i>	-48.80	

34 Transportation**34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

34 05 43 00-0308		Break-Up And Remove Bridge Decking By Hand <small>(34 05 43 00-0225)</small> Note: Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas up to 100 SF where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0056 for saw cutting.		
34 05 43 00-0309	SF	Break-Up And Remove 1" To 3" Thick Bituminous Pavement Bridge Decking By Hand	10.52	
		Note: Includes jackhammer and hand tools.		
34 05 43 00-0310	SF	Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Hand	13.84	
		Note: Includes jackhammer and hand tools.		
34 05 43 00-0311	SF	Break-Up And Remove >6" To 8" Thick Bituminous Pavement Bridge Decking By Hand	17.99	
		Note: Includes jackhammer and hand tools.		
34 05 43 00-0312	SF	Break-Up And Remove 1" To 3" Thick Concrete Bridge Decking By Hand	13.15	
		Note: Includes jackhammer and hand tools.		
34 05 43 00-0313	SF	Break-Up And Remove >3" To 6" Thick Concrete Bridge Decking By Hand	16.44	
		Note: Includes jackhammer and hand tools.		
34 05 43 00-0314	SF	Break-Up And Remove >6" To 8" Thick Concrete Bridge Decking By Hand	19.72	
		Note: Includes jackhammer and hand tools.		
34 05 43 00-0315	SF	Chipping And Cleaning Of Bridge Deck After Break-up And Removals.....	4.65	
34 05 43 00-0316		Hydro Blasting Of Bridge Decks <small>(34 05 43 00-0225)</small> Note: Excludes hauling and disposal of water and debris.		
34 05 43 00-0317	EA	Mobilization Of Hydro Blasting Equipment.....	10,878.09	
		Note: Includes trailer with power, hydro milling machine, vacuum machine.		
34 05 43 00-0318	EA	Mobilization Of Hydro Blasting Equipment.....	1,412.74	
		Note: Includes water tank, pump and miscellaneous fittings.		
34 05 43 00-0319	SF	Hydroblasting Of Up To 2-1/2" Of Bridge Decks	9.71	
34 05 43 00-0320	SF	Vacuuming And Cleaning Of Bridge Decks Up To 2-1/2", Following Hydroblasting	7.19	
34 05 43 00-0321	SF	Chipping And Cleaning Of Bridge Deck After Hydroblasting And Vacuum Up To 2-1/2"	1.78	
34 05 43 00-0322	SF	Hydroblasting 3" To 4-1/2" Of Bridge Decks	14.36	
34 05 43 00-0323	SF	Vacuuming And Cleaning Of Bridge Decks 3" To 4-1/2", Following Hydroblasting.....	9.71	
34 05 43 00-0324	SF	Chipping And Cleaning Of Bridge Deck After Hydroblasting And Vacuum 3" To 4-1/2"	4.65	
34 05 43 00-0325	GAL	Water For Hydro Blasting.....	0.12	
		Note: Includes delivery.		
34 05 43 00-0326		Patch For Bridge Deck <small>(34 05 43 00-0225)</small>		
34 05 43 00-0327	CF	Fast-Setting, Rapid-Hardening Structural Repair Mortar For Bridge Deck.....	108.14	
		Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.		
34 05 43 00-0328	CF	Polyester-Based Polymer Patch For Bridge Deck.....	120.88	
		Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.		
34 05 43 00-0329	SF	Hand Placed Hot Mixed Asphalt Repair For Bridge Approach.....	19.66	
		Note: Includes removal of HMA, tack coat, and installation of HMA and compaction by roller.		
34 05 43 00-0330		Pressure Washing For Bridge Deck <small>(34 05 43 00-0225)</small>		
34 05 43 00-0331	SF	Pressure Washing For Bridge Deck.....	0.07	
		Note: Includes pressure washer and water.		
34 05 43 00-0332		Galvanic Anodes <small>(34 05 43)</small>		
34 05 43 00-0333	EA	2.6" Diameter x 1.2" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP)	33.49	
		Note: Corrosion prevention only (preventing the initiation of corrosion).		
34 05 43 00-0334	EA	4.9" Long x 1.0" Wide x 1.0" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XPT)	33.49	
		Note: Corrosion prevention only (preventing the initiation of corrosion).		
34 05 43 00-0335	EA	2.8" Long x 2.4" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP2)	38.08	
		Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0336	EA	4.3" Long x 2.2" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP4)	41.57	
		Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0337	EA	2.5" Diameter x 1.1" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP+)	38.08	
		Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0338	EA	1-3/4" Diameter x 2-1/2" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC65)	39.24	
		Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0339	EA	1-3/4" Diameter x 4" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC100)	47.38	
		Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0340	EA	1-1/8" Diameter x 5-3/8" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC135)	43.89	
		Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0341 Bridge Netting Panels <small>(34 05 43)</small>		
34 05 43 00-0342 SF Bridge Netting Panel.....	5.70	
<i>Note: Includes cable, beam clamps to attach to the bridge structure without the need for drilling/welding and snap hooks for attaching the net.</i>		
<i>For Up To 160, Add</i>	<i>7.20</i>	
<i>For >160 To 320, Add</i>	<i>3.60</i>	
<i>For >320 To 480, Add</i>	<i>1.80</i>	
<i>For >2,000 To 10,000, Deduct</i>	<i>-0.24</i>	
<i>For >10,000 To 25,000, Deduct</i>	<i>-0.48</i>	
<i>For >25,000, Deduct</i>	<i>-0.72</i>	
34 05 43 00-0343 Anchors <small>(34 05 43)</small>		
<i>Note: Excludes core drilling. See CSI section 02 41 19 13-0079 for core drilling.</i>		
34 05 43 00-0344 Threaded Rod, A449 <small>(34 05 43 00-0343)</small>		
34 05 43 00-0345 LF 7/8" Diameter Continuous Threaded Rod, A449.....	12.44	
34 05 43 00-0346 LF 1" Diameter Continuous Threaded Rod, A449.....	14.75	
34 05 43 00-0347 LF 1-1/8" Diameter Continuous Threaded Rod, A449.....	17.04	
34 05 43 00-0348 LF 1-1/4" Diameter Continuous Threaded Rod, A449.....	21.37	
34 05 43 00-0349 Flat Washers, F436 <small>(34 05 43 00-0343)</small>		
34 05 43 00-0350 EA 7/8" Flat Washer, F436.....	1.54	
34 05 43 00-0351 EA 1" Flat Washer, F436.....	1.78	
34 05 43 00-0352 EA 1-1/8" Flat Washer, F436.....	1.96	
34 05 43 00-0353 EA 1-1/4" Flat Washer, F436.....	2.23	
34 05 43 00-0354 Heavy Hex Nut, A194 <small>(34 05 43 00-0343)</small>		
34 05 43 00-0355 EA 7/8" Hex Nut, A194.....	2.95	
34 05 43 00-0356 EA 1" Hex Nut, A194.....	3.92	
34 05 43 00-0357 EA 1-1/8" Hex Nut, A194.....	4.61	
34 05 43 00-0358 EA 1-1/4" Hex Nut, A194.....	5.46	
34 05 43 00-0359 Grout For Threaded Rod <small>(34 05 43 00-0343)</small>		
34 05 43 00-0360 IN Grout 7/8" Rod In Hole.....	2.36	
34 05 43 00-0361 IN Grout 1" Rod In Hole.....	2.70	
34 05 43 00-0362 IN Grout 1-1/8" Rod In Hole.....	3.15	
34 05 43 00-0363 IN Grout 1-1/4" Rod In Hole.....	3.78	
34 05 43 00-0364 Test Grouted Anchor <small>(34 05 43 00-0343)</small>		
34 05 43 00-0365 EA Test Grouted Anchor.....	19.59	
34 05 43 00-0366 Removal Of Fasteners Or Anchors In Concrete <small>(34 05 43 00-0343)</small>		
<i>Note: Includes removal of damaged, chemically adhered or mechanically fastened bolts, studs, threaded rod or concrete anchors with a carbide drill bit.</i>		
34 05 43 00-0367 EA Drill Out 3/8" Diameter Fastener/Anchor In Concrete.....	20.44	
34 05 43 00-0368 EA Drill Out 1/2" Diameter Fastener/Anchor In Concrete.....	21.98	
34 05 43 00-0369 EA Drill Out 9/16" Diameter Fastener/Anchor In Concrete.....	22.92	
34 05 43 00-0370 EA Drill Out 5/8" Diameter Fastener/Anchor In Concrete.....	24.73	
34 05 43 00-0371 EA Drill Out 3/4" Diameter Fastener/Anchor In Concrete.....	27.08	
34 05 43 00-0372 EA Drill Out 7/8" Diameter Fastener/Anchor In Concrete.....	29.83	
34 05 43 00-0373 EA Drill Out 1" Diameter Fastener/Anchor In Concrete.....	31.51	
34 05 43 00-0374 EA Drill Out 1-1/8" Diameter Fastener/Anchor In Concrete.....	33.45	
34 05 43 00-0375 EA Drill Out 1-1/4" Diameter Fastener/Anchor In Concrete.....	35.83	
34 05 43 00-0376 EA Drill Out 1-1/2" Diameter Fastener/Anchor In Concrete.....	40.28	
34 05 43 00-0377 Bridge Surfacing <small>(34 05 43)</small>		
34 05 43 00-0378 Bridge Coatings <small>(34 05 43 00-0377)</small>		
<i>Note: Includes sweeping of bridge deck.</i>		
34 05 43 00-0379 SF Penetrating Corrosion Inhibitor Sealer For Bridge Decks (Two Coats).....	0.74	
<i>Note: Includes power washing and drying after power washing.</i>		
34 05 43 00-0380 SF Protective Seal Coat For Existing Bridge Decks.....	1.48	
34 05 43 00-0381 SF Penetrating Sealer For Existing Bridge Decks.....	2.35	
34 05 43 00-0382 Bridge Membranes <small>(34 05 43 00-0377)</small>		
<i>Note: Excludes abrasive blasting of deck.</i>		
34 05 43 00-0383 SF Spray Applied Waterproofing Membrane For Bridge Decks.....	9.63	
34 05 43 00-0384 SF Sheet Applied Waterproofing Membrane For Bridge Decks.....	2.71	
34 05 43 00-0385 Sealer And Overlay For Bridge Deck <small>(34 05 43 00-0377)</small>		
<i>Note: Excludes sweeping, cleaning and abrasive blasting.</i>		

34 Transportation
34 05 Common Work Results For Transportation
34 05 43 Common Work Results For Bridges



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0386 SF Shot Blasting Bridge Decks Note: Includes steel ball media. Includes air cleaning of deck surface after shot blasting.	1.21	
34 05 43 00-0387 SF Thin Polymer (Epoxy) Overlay For Bridge Deck Note: Includes epoxy overlay applied in two coats with aggregate.	3.89	
34 05 43 00-0388 SF 3/4" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.	12.01	
34 05 43 00-0389 SF 1" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.	13.77	
34 05 43 00-0390 SF 1-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.	17.13	
34 05 43 00-0391 SF 2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.	20.49	
34 05 43 00-0392 SF 2-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.	23.85	
34 05 43 00-0393 SF 3" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.	27.22	
34 05 43 00-0394 Broadcast Silica Sand (34 05 43 00-0377) Note: Includes removing loose sand..		
34 05 43 00-0395 SF Broadcast Silica Sand.....	0.20	
34 05 43 00-0396 Sweeping And Cleaning Of Bridge Deck (34 05 43 00-0377) See CSI section 01 22 23 00-1216 for water trucks, 01 22 23 00-1234 for vacuum sweeper trucks.		
34 05 43 00-0397 Concrete Overlay For Bridge Deck (34 05 43 00-0377) Note: Includes sweeping and cleaning. Excludes abrasive blasting.		
34 05 43 00-0398 SY 3" Concrete Overlay For Bridge Deck.....	136.74	
For DOT Class DP, Add	25.67	
For DOT Class E, Add	8.37	
For DOT Class HP, Add	24.50	
34 05 43 00-0399 Bridge Roadway Grooving (34 05 43 00-0377)		
34 05 43 00-0400 EA Up To 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal	3,088.71	
34 05 43 00-0401 SY Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal	5.00	
34 05 43 00-0402 EA Up To 500 SY Of Bridge Pavement Grooving, Concrete, Traverse	3,440.93	
34 05 43 00-0403 SY Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Traverse	6.52	
34 05 43 00-0404 Gravity Fed Concrete Crack Repair (34 05 43 00-0377) Note: Includes removing loose materials and cleaning.		
34 05 43 00-0405 LF Epoxy Low Viscosity Gravity Fed Concrete Crack Repair	2.33	
34 05 43 00-0406 LF HMWM Low Viscosity Gravity Fed Concrete Crack Repair	2.76	
34 05 43 00-0407 Concrete Pumping With Boom Truck (34 05 43 00-0377) See CSI section 03 31 13 00-0010 for concrete delivery for small quantities, 03 37 16 00-0001 for concrete pump truck.		
34 05 43 00-0408 Bridge Girder Repair (34 05 43)		
34 05 43 00-0409 Bridge Girder Repair (34 05 43 00-0408) Note: Does not include mobilization of bridge jacking crew. See CSI section 05 05 23 00-0040 for bolts, nuts and washers, 05 12 23 00-0000 for additional steel shapes, angles and channels.		
34 05 43 00-0410 HR UT, MT, PT Testing..... Note: Does not include mileage to job site.	75.00	
34 05 43 00-0411 EA Mobilization of Bridge Girder Repair Crew	1,972.03	
34 05 43 00-0412 LF 3" x 3" x 1/4" Angle Iron For Bridge Repair	11.55	4.72
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	16.80	
For Aluminum, Add	0.95	
For Galvanized Steel, Add	3.26	
34 05 43 00-0413 LF 4" x 4" x 1/4" Angle Iron For Bridge Repair	14.77	5.77
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	22.69	
For Aluminum, Add	1.28	
For Galvanized Steel, Add	4.40	
34 05 43 00-0414 LF 3" x 3" x 3/8" Angle Iron For Bridge Repair	14.79	5.31
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	24.67	
For Aluminum, Add	1.39	
For Galvanized Steel, Add	4.78	
34 05 43 00-0415 LF 4" x 4" x 3/8" Angle Iron For Bridge Repair	19.09	6.46
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	33.57	
For Aluminum, Add	1.89	
For Galvanized Steel, Add	6.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0416 LF 6" x 4" x 3/8" Angle Iron For Bridge Repair.....	24.44	8.43
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	42.24	
<i>For Aluminum, Add</i>	2.38	
<i>For Galvanized Steel, Add</i>	8.18	
34 05 43 00-0417 LF 6" x 6" x 3/8" Angle Iron For Bridge Repair.....	27.24	8.43
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	51.20	
<i>For Aluminum, Add</i>	2.88	
<i>For Galvanized Steel, Add</i>	9.92	
34 05 43 00-0418 LF 6" x 6" x 1/2" Angle Iron For Bridge Repair.....	36.13	11.32
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	67.33	
<i>For Aluminum, Add</i>	3.79	
<i>For Galvanized Steel, Add</i>	13.04	
34 05 43 00-0419 LF 7" x 4" x 5/8" Angle Iron For Bridge Repair.....	39.62	11.92
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	75.90	
<i>For Aluminum, Add</i>	4.27	
<i>For Galvanized Steel, Add</i>	14.71	
34 05 43 00-0420 LF 5" x 3-1/2" x 3/4" Angle Iron For Bridge Repair.....	34.60	10.02
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	68.00	
<i>For Aluminum, Add</i>	3.83	
<i>For Galvanized Steel, Add</i>	13.18	
34 05 43 00-0421 LF 6" x 4" x 3/4" Angle Iron For Bridge Repair.....	41.26	11.94
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	81.09	
<i>For Aluminum, Add</i>	4.56	
<i>For Galvanized Steel, Add</i>	15.71	
34 05 43 00-0422 LF 7" x 4" x 3/4" Angle Iron For Bridge Repair.....	45.79	13.25
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	89.98	
<i>For Aluminum, Add</i>	5.06	
<i>For Galvanized Steel, Add</i>	17.43	
34 05 43 00-0423 LF 8" x 6" x 7/8" Angle Iron For Bridge Repair.....	66.59	18.46
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	134.34	
<i>For Aluminum, Add</i>	7.56	
<i>For Galvanized Steel, Add</i>	26.03	
34 05 43 00-0424 LF C4 x 5.4 - 4" Wide Channels For Bridge Repair.....	13.89	6.07
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	18.56	
<i>For Aluminum, Add</i>	1.04	
<i>For Galvanized Steel, Add</i>	3.60	
34 05 43 00-0425 LF C6 x 8.2 - 6" Wide Channels For Bridge Repair.....	20.13	8.50
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	28.16	
<i>For Aluminum, Add</i>	1.58	
<i>For Galvanized Steel, Add</i>	5.46	
34 05 43 00-0426 LF C8 x 11.5 - 8" Wide Channels For Bridge Repair.....	27.18	11.13
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	39.49	
<i>For Aluminum, Add</i>	2.22	
<i>For Galvanized Steel, Add</i>	7.65	
34 05 43 00-0427 LF C10 x 15.3 - 10" Wide Channels For Bridge Repair.....	36.16	14.80
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	52.54	
<i>For Aluminum, Add</i>	2.96	
<i>For Galvanized Steel, Add</i>	10.18	
34 05 43 00-0428 LF C12 x 20.7 - 12" Wide Channels For Bridge Repair.....	48.94	20.04
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	71.10	
<i>For Aluminum, Add</i>	4.00	
<i>For Galvanized Steel, Add</i>	13.78	
34 05 43 00-0429 LF C15 x 33.9 - 15" Wide Channels For Bridge Repair.....	80.14	32.81
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	116.45	
<i>For Aluminum, Add</i>	6.55	
<i>For Galvanized Steel, Add</i>	22.56	

34 Transportation**34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0430 SF 1/2" A36 Steel Plates For Bridge Repair	39.40	12.91
For A50 Grade Steel, Add	1.29	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0431 SF 5/8" A36 Steel Plates For Bridge Repair	49.25	16.14
For A50 Grade Steel, Add	1.61	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0432 SF 3/4" A36 Steel Plates For Bridge Repair	59.10	19.27
For A50 Grade Steel, Add	1.94	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0433 SF 7/8" A36 Steel Plates For Bridge Repair	68.95	22.59
For A50 Grade Steel, Add	2.26	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0434 SF 1" A36 Steel Plates For Bridge Repair	78.79	25.82
For A50 Grade Steel, Add	2.58	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0435 SF 1-1/4" A36 Steel Plates For Bridge Repair	98.50	32.28
For A50 Grade Steel, Add	3.23	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0436 SF 1-3/8" A36 Steel Plates For Bridge Repair	108.34	35.51
For A50 Grade Steel, Add	3.55	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0437 SF 1-1/2" A36 Steel Plates For Bridge Repair	118.19	38.73
For A50 Grade Steel, Add	3.87	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0438 CWT Removal Of Existing Steel For Bridge Repair A36	53.32	
Note: For use with angles, channels and steel plates up to 5' x 5'.		
For Removal Over 30' To 50', Add	10.66	
For Removal Over 50' To 75', Add	18.66	
For Removal Over 75', Add	26.66	
34 05 43 00-0439 TON Removal Of Existing Steel For Bridge Repair A36	710.95	
Note: For use with I-beams, floor beams and plates over 5' x 5'.		
For Removal Over 30' To 50', Add	142.19	
For Removal Over 50' To 75', Add	248.83	
For Removal Over 75', Add	355.48	
34 05 43 00-0440 CWT Miscellaneous Steel For Bridge Repair A36	285.48	
Note: For use with angles, channels and steel plates up to 5' x 5'.		
For A50 Grade Steel, Add	46.43	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
34 05 43 00-0441 TON Miscellaneous Steel For Bridge Repair A36	4,521.63	
Note: For use with I-beams, floor beams and plates over 5' x 5'.		
For A50 Grade Steel, Add	762.14	
Cutting Fee For I-beams, Floor Beams And Plates Over 5'x5', Add Per Each Piece	30.00	
34 05 43 00-0442 EA Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair Up To 15/16" Diameter	30.47	
Note: Per each hole drilled per steel member.		
34 05 43 00-0443 EA Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair >15/16" Diameter	39.54	
Note: Per each hole drilled per steel member.		
34 05 43 00-0444 EA Bolts A325 For Steel Repair Connections Up To 7/8"	25.29	1.80
34 05 43 00-0445 EA Bridge Girder Rivet Removal	278.85	
34 05 43 00-0446 LF Up To 1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	5.53	
Note: Includes rust or scale removal.		
34 05 43 00-0447 LF >1/2" To 1" Thick Edge Grinding, Smoothing Surface After Torch Cutting	10.03	
Note: Includes rust or scale removal.		
34 05 43 00-0448 LF >1" To 1-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	14.52	
Note: Includes rust or scale removal.		
34 05 43 00-0449 LF >1-1/2" To 2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	19.02	
Note: Includes rust or scale removal.		
34 05 43 00-0450 LF >2" To 2-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	23.52	
Note: Includes rust or scale removal.		
34 05 43 00-0451 LF >2-1/2" To 3" Thick Edge Grinding, Smoothing Surface After Torch Cutting	28.02	
Note: Includes rust or scale removal.		
34 05 43 00-0452 Cleaning And Preparation Of Painted And Unpainted Metal Surfaces (34 05 43 00-0408)		
34 05 43 00-0453 SF Loose Mill Scale With Fine Powder, Commercial Blast, Surface Preparation, Bridge Girder Repair	0.83	
For Up To 100, Add	0.54	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.08	
For >15,000 To 30,000, Deduct	-0.12	
For >30,000, Deduct	-0.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0454 SF Tight Mill Scale With Fine Powder Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair	1.13	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.14	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 15,000, Deduct	-0.11	
For >15,000 To 30,000, Deduct	-0.16	
For >30,000, Deduct	-0.22	
34 05 43 00-0455 SF Exterior Coating Blistered Pitted, Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair	1.68	
For Up To 100, Add	1.09	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 15,000, Deduct	-0.16	
For >15,000 To 30,000, Deduct	-0.25	
For >30,000, Deduct	-0.32	
34 05 43 00-0456 SF Badly Pitted With Rust Nodules, Commercial Blast, Surface Preparation, Bridge Girder Repair.....	2.80	
For Up To 100, Add	1.82	
For >100 To 250, Add	0.85	
For >250 To 500, Add	0.36	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 15,000, Deduct	-0.26	
For >15,000 To 30,000, Deduct	-0.41	
For >30,000, Deduct	-0.54	
34 05 43 00-0457 SF Loose Mill Scale With Fine Powder Rust, Near White Blast, Surface Preparation, Bridge Girder Repair.....	2.12	
For Up To 100, Add	1.36	
For >100 To 250, Add	0.63	
For >250 To 500, Add	0.27	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 15,000, Deduct	-0.20	
For >15,000 To 30,000, Deduct	-0.31	
For >30,000, Deduct	-0.41	
34 05 43 00-0458 SF Tight Mill Scale Little Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	2.63	
For Up To 100, Add	1.67	
For >100 To 250, Add	0.78	
For >250 To 500, Add	0.33	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 15,000, Deduct	-0.25	
For >15,000 To 30,000, Deduct	-0.38	
For >30,000, Deduct	-0.51	
34 05 43 00-0459 SF Exterior Coat Blistered Pitted Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	3.41	
For Up To 100, Add	2.18	
For >100 To 250, Add	1.02	
For >250 To 500, Add	0.44	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 15,000, Deduct	-0.32	
For >15,000 To 30,000, Deduct	-0.50	
For >30,000, Deduct	-0.66	
34 05 43 00-0460 SF Badly Pitted Rust Nodules, Near White Blast, Surface Preparation, Bridge Girder Repair.....	4.26	
For Up To 100, Add	2.72	
For >100 To 250, Add	1.27	
For >250 To 500, Add	0.54	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 15,000, Deduct	-0.40	
For >15,000 To 30,000, Deduct	-0.62	
For >30,000, Deduct	-0.82	
34 05 43 00-0461 Galvanized Anchor Bolts For Bridge Bearings <small>(34 05 43 00-0408)</small>		
34 05 43 00-0462 EA 1/2" Diameter x 6" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	7.06	
34 05 43 00-0463 EA 1/2" Diameter x 12" Long, J-Type Galvanized Anchor Bolts For Bridge Bearings	11.66	
34 05 43 00-0464 EA 1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	13.89	
34 05 43 00-0465 EA 5/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	15.69	
34 05 43 00-0466 EA 5/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	19.00	
34 05 43 00-0467 EA 5/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	21.33	
34 05 43 00-0468 EA 3/4" Diameter x 8" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	21.25	
34 05 43 00-0469 EA 3/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	24.24	
34 05 43 00-0470 EA 3/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	29.40	
34 05 43 00-0471 EA 3/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	35.37	
34 05 43 00-0472 EA 7/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	27.93	
34 05 43 00-0473 EA 7/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	32.80	
34 05 43 00-0474 EA 7/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	41.42	
34 05 43 00-0475 EA 1" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	34.33	
34 05 43 00-0476 EA 1" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	40.79	
34 05 43 00-0477 EA 1" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	50.29	
34 05 43 00-0478 EA 1" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	61.98	
34 05 43 00-0479 EA 1-1/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	40.81	
34 05 43 00-0480 EA 1-1/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	48.57	
34 05 43 00-0481 EA 1-1/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	59.95	
34 05 43 00-0482 EA 1-1/8" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	73.82	
34 05 43 00-0483 EA 1-1/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	48.86	
34 05 43 00-0484 EA 1-1/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	58.21	
34 05 43 00-0485 EA 1-1/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	71.94	
34 05 43 00-0486 EA 1-1/4" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	88.51	
34 05 43 00-0487 EA 1-1/2" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	58.94	

34 Transportation**34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0488	EA		1-1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	70.26	
34 05 43 00-0489	EA		1-1/2" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	86.93	
34 05 43 00-0490	EA		1-1/2" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	106.89	
34 05 43 00-0491			Welding For Bridge Repair (34 05 43 00-0408)		
34 05 43 00-0492	EA		Minimum Charge For Welding For Bridge Repair.....	1,249.79	
			Note: For projects where the total welding charge is less than the minimum charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
34 05 43 00-0493	LF		3/16" Fillet Welding For Bridge Repair.....	12.68	
			For Full Penetration Weld, Add	4.90	
34 05 43 00-0494	LF		1/4" Fillet Welding For Bridge Repair.....	19.01	
			For Full Penetration Weld, Add	7.34	
34 05 43 00-0495	LF		5/16" Fillet Welding For Bridge Repair.....	25.36	
			For Full Penetration Weld, Add	9.79	
34 05 43 00-0496	LF		3/8" Fillet Welding For Bridge Repair.....	31.69	
			For Full Penetration Weld, Add	12.24	
34 05 43 00-0497	LF		7/16" Fillet Welding For Bridge Repair.....	37.57	
			For Full Penetration Weld, Add	14.68	
34 05 43 00-0498	LF		1/2" Fillet Welding For Bridge Repair.....	44.03	
			For Full Penetration Weld, Add	17.00	
34 05 43 00-0499	LF		9/16" Fillet Welding For Bridge Repair.....	51.43	
			For Full Penetration Weld, Add	20.02	
34 05 43 00-0500	LF		5/8" Fillet Welding For Bridge Repair.....	56.68	
			For Full Penetration Weld, Add	22.02	
34 05 43 00-0501	LF		3/4" Fillet Welding For Bridge Repair.....	78.04	
			For Full Penetration Weld, Add	30.10	
34 05 43 00-0502	LF		7/8" Fillet Welding For Bridge Repair.....	102.86	
			For Full Penetration Weld, Add	39.90	
34 05 43 00-0503	LF		1" Fillet Welding For Bridge Repair.....	142.87	
			For Full Penetration Weld, Add	55.06	
34 05 43 00-0504			Bridge Trough Repair (34 05 43)		
34 05 43 00-0505	EA		New Bridge Trough Hanger.....	184.32	22.49
34 05 43 00-0506	EA		Reattach By Welding Existing Bridge Trough Hanger, Top And/Or Bottom.....	53.41	
34 05 43 00-0507	EA		Replace All Thread For Existing Bridge Trough Hanger.....	79.45	
34 05 43 00-0508	EA		Replace Steel Angle Attachment For Existing Bridge Trough Hanger.....	58.32	
34 05 43 00-0509			Spot Paint Removal And Painting, Bridge Structural Steel (34 05 43)		
34 05 43 00-0510	HR		Testing For Lead And Asbestos Paint Removal By Asbestos Contractor.....	80.00	
34 05 43 00-0511	EA		Up To 4 SF, Flat Surfaces, Non-Contaminated Paint Removal.....	166.88	
34 05 43 00-0512	SF		>4 SF, Flat Surfaces, Non-Contaminated Paint Removal.....	41.71	
34 05 43 00-0513	EA		Up To 4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal.....	211.34	
			Note: Includes HEPA vacuuming.		
34 05 43 00-0514	SF		>4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal.....	52.83	
			Note: Includes HEPA vacuuming.		
34 05 43 00-0515	CF		Treat and Dispose of Removed Paint Waste.....	4.16	
34 05 43 00-0516	SF		Flat Surfaces Spot Painting.....	44.18	
			Note: Includes 1 coat primer and 2 coats finish.		
34 05 43 00-0517	EA		Minimum Charge For Plastic Barrier Enclosure for Paint Removal.....	971.46	
			Note: Up to an 8' x 8' area, 7' high. Includes 10 mil plastic on walls and floor. 2"x4" construction. Excludes scaffolding.		
34 05 43 00-0518	SF		Plastic Barrier Enclosure For Paint Removal.....	3.03	
			Note: For projects where the total charge exceeds the minimum charge for plastic barrier enclosures. Includes 10 mil plastic on floor and walls. 2" x 4" construction. Excludes scaffolding. Use area of walls and floor for quantity.		
34 05 43 00-0519			End Beam Cleaning And Painting (34 05 43)		
34 05 43 00-0520	SF		End Beam Cleaning and Painting.....	2.66	
			Note: Includes high pressure wash at minimum 3003 to 5000 PSI, spot cleaning damaged/rusted areas with hand and power tools (SSPC - SP2 and SP3), solvent cleaning (SSPC-SP1), one coat of aluminum epoxy mastic (minimum 6 mils) to spot cleaned areas, one coat sealer (1-2 mils), and one coat polyurethane finish.		
			For Up To 100, Add	2.66	
			For >100 To 500, Add	1.76	
			For >500 To 3,000, Add	0.88	
			For >5,000 To 7,500, Deduct	-0.46	
			For >7,500 To 10,000, Deduct	-0.73	
			For >10,000, Deduct	-1.06	
34 05 43 00-0521			Snow And Pedestrian Fences For Bridges (34 05 43)		
34 05 43 00-0522			Snow And Pedestrian Fence Assembly For Bridges (34 05 43 00-0521)		
			Note: Includes 1" 11 gauge coiled spring mesh (knuckled selvedge), tension bars, post tension bands, wire ties, 1-5/8" top rail, 1-5/8" bottom rail, 2-7/8" post 10' O.C. Posts exclude installation onto bridge. Heights indicated are for mesh to top.		
34 05 43 00-0523			Galvanized Snow And Pedestrian Fence Assembly For Bridges (34 05 43 00-0522)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0524 LF 4' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.....	33.73	9.56
<i>For Posts 8' On Centers, Add</i>	1.90	
<i>For Posts 5' On Centers, Add</i>	7.21	
<i>For Up To 100, Add</i>	6.80	
<i>For >100 To 250, Add</i>	2.56	
34 05 43 00-0525 LF >4' To 5' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	36.58	10.05
<i>For Posts 8' On Centers, Add</i>	2.05	
<i>For Posts 5' On Centers, Add</i>	7.78	
<i>For Up To 100, Add</i>	7.32	
<i>For >100 To 250, Add</i>	2.75	
34 05 43 00-0526 LF >5' To 6' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	39.45	10.53
<i>For Posts 8' On Centers, Add</i>	2.20	
<i>For Posts 5' On Centers, Add</i>	8.35	
<i>For Up To 100, Add</i>	7.84	
<i>For >100 To 250, Add</i>	2.93	
34 05 43 00-0527 LF >6' To 7' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	41.51	11.01
<i>For Posts 8' On Centers, Add</i>	2.32	
<i>For Posts 5' On Centers, Add</i>	8.78	
<i>For Up To 100, Add</i>	8.23	
<i>For >100 To 250, Add</i>	3.08	
34 05 43 00-0528 LF >7' To 8' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	46.85	11.96
<i>For Posts 8' On Centers, Add</i>	2.60	
<i>For Posts 5' On Centers, Add</i>	9.85	
<i>For Up To 100, Add</i>	9.21	
<i>For >100 To 250, Add</i>	3.43	
34 05 43 00-0529 Vinyl Coated Snow And Pedestrian Fence Assembly For Bridges <small>(34 05 43 00-0522)</small>		
34 05 43 00-0530 LF 4' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	35.24	9.56
<i>For Powder Coated, Add</i>	3.56	
<i>For Aluminum Coated, Add</i>	7.12	
<i>For Posts 8' On Centers, Add</i>	1.97	
<i>For Posts 5' On Centers, Add</i>	7.48	
<i>For Up To 100, Add</i>	7.03	
<i>For >100 To 250, Add</i>	2.63	
34 05 43 00-0531 LF >4' To 5' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	38.48	10.05
<i>For Powder Coated, Add</i>	4.03	
<i>For Aluminum Coated, Add</i>	8.06	
<i>For Posts 8' On Centers, Add</i>	2.14	
<i>For Posts 5' On Centers, Add</i>	8.12	
<i>For Up To 100, Add</i>	7.60	
<i>For >100 To 250, Add</i>	2.84	
34 05 43 00-0532 LF >5' To 6' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	43.33	10.53
<i>For Powder Coated, Add</i>	4.83	
<i>For Aluminum Coated, Add</i>	9.65	
<i>For Posts 8' On Centers, Add</i>	2.40	
<i>For Posts 5' On Centers, Add</i>	9.05	
<i>For Up To 100, Add</i>	8.42	
<i>For >100 To 250, Add</i>	3.13	
34 05 43 00-0533 LF >6' To 7' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	46.01	11.01
<i>For Powder Coated, Add</i>	5.19	
<i>For Aluminum Coated, Add</i>	10.38	
<i>For Posts 8' On Centers, Add</i>	2.54	
<i>For Posts 5' On Centers, Add</i>	9.59	
<i>For Up To 100, Add</i>	8.91	
<i>For >100 To 250, Add</i>	3.30	
34 05 43 00-0534 LF >7' To 8' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' O.C.	52.11	11.96
<i>For Powder Coated, Add</i>	6.06	
<i>For Aluminum Coated, Add</i>	12.12	
<i>For Posts 8' On Centers, Add</i>	2.87	
<i>For Posts 5' On Centers, Add</i>	10.80	
<i>For Up To 100, Add</i>	10.00	
<i>For >100 To 250, Add</i>	3.70	
34 05 43 00-0535 Bridge Connection Mounting For Snow And Pedestrian Fence Assembly <small>(34 05 43 00-0522)</small>		
34 05 43 00-0536 EA Attach Bridge Fence Post To Steel Bridge Railing Post With U-Bolt, Washers And Nuts.....	45.78	
<i>Note: Includes drilling into steel post.</i>		
34 05 43 00-0537 EA Attach Bridge Fence Post Base To Existing Plate, Welding And Touch-up With Galvanized Paint.....	26.67	
34 05 43 00-0538 EA Attach Bridge Fence Post Base With Plate, Welding And Touch-up With Galvanized Paint	64.89	
34 05 43 00-0539 EA Attach Bridge Fence Post To Concrete Safety Shape Barrier With Bolt, 5/8" Diameter x 4-3/4" Anchor Rods, Washers And Nuts.....	71.07	
<i>Note: Includes drilling into steel post.</i>		
34 05 43 00-0540 EA Attach Bridge Fence Post To Stone Faced Barrier Top With Plate, 3/8" Diameter Anchor Rods, Washers And Nuts.....	96.59	
<i>Note: Includes drilling into steel post.</i>		

34 Transportation**34 05 Common Work Results For Transportation****34 05 43 Common Work Results For Bridges**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST
34 10 Guideways/Railways ⁽³⁴⁾**34 11 Rail Tracks** ^(34 10)**34 11 93 Track Appurtenances And Accessories** ^(34 11)**34 11 93 00-0001 Railroad Crossings** ^(34 11 93)**34 11 93 00-0002 Asphalt Railroad Crossings** ^(34 11 93 00-0001)

Note: Based on 8" thickness x 20' including track and approach.

34 11 93 00-0003	EA	8" Asphalt Railroad Crossing, 12' Roadway 6 CY	1,842.68	280.00
34 11 93 00-0004	EA	8" Asphalt Railroad Crossing, 15' Roadway 7.4 CY	2,171.29	317.34
34 11 93 00-0005	EA	8" Asphalt Railroad Crossing, 18' Roadway 8.9 CY	2,565.30	373.33
34 11 93 00-0006	EA	8" Asphalt Railroad Crossing, 21' Roadway 10.4 CY	3,044.64	448.00
34 11 93 00-0007	EA	8" Asphalt Railroad Crossing, 24' Roadway 11.9 CY	3,673.28	560.00

34 11 93 00-0008 Railroad Crossings - Precast Concrete Inserts ^(34 11 93 00-0001)

Note: Based on 6" thickness x standard rail width gauge.

34 11 93 00-0009	EA	Precast Concrete, Railroad Crossing, 12' Road 6" Thick, Standard Gauge	4,763.15	130.33
34 11 93 00-0010	EA	Precast Concrete, Railroad Crossing, 15' Road 6" Thick, Standard Gauge	5,953.93	158.26
34 11 93 00-0011	EA	Precast Concrete, Railroad Crossing, 18' Road 6" Thick, Standard Gauge	7,140.10	195.50
34 11 93 00-0012	EA	Precast Concrete, Railroad Crossing, 21' Road 6" Thick, Standard Gauge	8,327.45	223.43
34 11 93 00-0013	EA	Precast Concrete, Railroad Crossing, 24' Road 6" Thick, Standard Gauge	9,514.07	260.67

34 11 93 00-0014 Molded Rubber Railroad Crossings With Headers ^(34 11 93 00-0001)

Note: Based on 3' x 8'-6" sections.

34 11 93 00-0015	EA	Molded Rubber Railroad Crossing, 12' Road 3' x 8'-6" Sections With Headers	2,947.85	130.33
34 11 93 00-0016	EA	Molded Rubber Railroad Crossing, 15' Road 3' x 8'-6" Sections With Headers	3,497.14	158.26
34 11 93 00-0017	EA	Molded Rubber Railroad Crossing, 18' Road 3' x 8'-6" Sections With Headers	4,041.84	195.50
34 11 93 00-0018	EA	Molded Rubber Railroad Crossing, 21' Road 3' x 8'-6" Sections With Headers	4,587.70	223.43
34 11 93 00-0019	EA	Molded Rubber Railroad Crossing, 24' Road 3' x 8'-6" Sections With Headers	5,132.84	260.67

34 11 93 00-0020 Railroad Trackage Demolition ^(34 11 93)

34 11 93 00-0021	CY	Remove Railroad Track Ballast	7.48	
34 11 93 00-0022	LF	Remove Railroad Track Rail And Spikes	18.70	
34 11 93 00-0023	EA	Remove/Dispose Of Concrete Post Footings	108.58	
34 11 93 00-0024	EA	Backfill Holes From Post Removal	45.26	

34 40 Transportation Signaling and Control Equipment ⁽³⁴⁾**34 41 Roadway Signaling and Control Equipment** ^(34 40)**34 41 13 Traffic Signals** ^(34 41)**34 41 13 00-0001 Traffic Signals** ^(34 41 13)

34 41 13 00-0002	EA	Single Traffic Signal Head, 4 Way Pattern	4,927.31	639.66
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34 41 13 00-0003 Traffic Detector Induction Loop ^(34 41 13)

34 41 13 00-0004	EA	6' x 6', Type A, 3 Turns Per Loop, Traffic Detector Induction Loop	340.83	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0005	EA	6' x 6', Type D, 3 Turns Per Loop, Traffic Detector Induction Loop	425.46	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0006	EA	6' x 6', Type D, 5 Turns Per Loop, Traffic Detector Induction Loop	475.59	
Note: Includes saw cutting, 5 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0007	EA	6' x 6', Type Q, 3 Turns Per Loop, Traffic Detector Induction Loop	417.75	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0008	EA	6' x 20', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop	724.91	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0009	EA	6' x 28', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop	896.70	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0010	EA	6' x 28', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop	948.04	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0011	EA	6' x 40', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop	1,192.24	
Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0012	EA	6' x 40', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop	1,268.37	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0013 EA 6' x 50', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,377.05	
34 41 13 00-0014 EA 6' x 50', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,470.07	
34 41 13 00-0015 LF In Pavement, Lead Wire For Traffic Signal Detector Note: Includes saw cutting, sealing and splicing into traffic signal loop wire in street. Excludes junction box or conduit.	5.97	
34 41 13 00-0016 LF In Earthwork, Lead Wire For Traffic Signal Detector Note: Includes trenching in earthwork and splicing into traffic signal loop wire. Excludes junction box or conduit.	2.77	
34 41 13 00-0017 EA 2 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model 222).....	168.18	
34 41 13 00-0018 EA 4 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model E-1100).....	452.59	
34 41 13 00-0019 EA 2 Channel, Rack Mounted, Traffic Loop Bicycle Detector (Reno A&E Model C-1100).....	285.71	
34 41 13 00-0020 Overhead Traffic Signals <small>(34 41 13)</small>		
34 41 13 00-0021 EA Traffic Signal Controller Unit, TS 2 Type 1 (ASC/3-1000).....	3,916.52	852.89
34 41 13 00-0022 EA Traffic Signal Controller Unit, TS 2 Type 2 (ASC/3-2100).....	4,023.26	852.89
34 41 13 00-0023 EA Traffic Signal Controller Unit, Replacement For Type 170E (ASC/3RM).....	4,167.68	852.89
34 41 13 00-0024 EA Optical Detector For Mast Arm Mounting, 1 Channel, 1 Way.....	747.88	193.00
34 41 13 00-0025 EA Optical Detector For Mast Arm Mounting, 1 Channel, 2 Way.....	810.67	193.00
34 41 13 00-0026 EA Optical Detector For Mast Arm Mounting, 2 Channel.....	1,016.62	193.00
34 41 13 00-0027 EA Optical Detector For Pole-Side Mounting, 1 Channel, 1 Way.....	747.88	193.00
34 41 13 00-0028 EA Optical Detector For Pole-Side Mounting, 1 Channel, 2 Way.....	810.67	193.00
34 41 13 00-0029 EA Optical Detector For Pole-Side Mounting, 2 Channel.....	1,016.62	193.00
34 41 13 00-0030 EA Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 1 Way.....	747.88	193.00
34 41 13 00-0031 EA Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 2 Way.....	810.67	193.00
34 41 13 00-0032 EA Optical Detector For Pedestal Or Pipe Mounting, 2 Channel.....	1,016.62	193.00
34 41 13 00-0033 EA Optical Detector For Span Wire Mounting, 1 Channel, 1 Way.....	747.88	193.00
34 41 13 00-0034 EA Optical Detector For Span Wire Mounting, 1 Channel, 2 Way.....	810.67	193.00
34 41 13 00-0035 EA Optical Detector For Span Wire Mounting, 2 Channel.....	1,016.62	193.00
34 41 13 00-0036 EA Optical Detector For Signal Top Mounting, 1 Channel, 1 Way.....	747.88	193.00
34 41 13 00-0037 EA Optical Detector For Signal Top Mounting, 1 Channel, 2 Way.....	810.67	193.00
34 41 13 00-0038 EA Optical Detector For Signal Top Mounting, 2 Channel.....	1,016.62	193.00
34 41 13 00-0039 EA Phase Selector, 2 Channel.....	2,151.71	24.13
34 41 13 00-0040 EA Phase Selector, 4 Channel.....	3,338.45	24.13
34 41 13 00-0041 EA Malfunction Management Unit For Use With NEMA Controller.....	1,101.15	48.25
34 41 13 00-0042 EA Malfunction Management Unit For Use With Type 170E Or 2070 Controller.....	1,101.15	48.25
34 41 13 00-0043 EA Time Switch, 1-Circuit.....	279.34	28.95
34 41 13 00-0044 EA Digital Loop-Type Vehicle Detector Card, 2-Channel, Normal.....	222.55	12.06
34 41 13 00-0045 EA Digital Loop-Type Vehicle Detector Card, 2-Channel, Stretch/Delay.....	289.10	12.06
34 41 13 00-0046 EA Digital Loop-Type Vehicle Detector Card, 4-Channel, Normal.....	408.40	12.06
34 41 13 00-0047 EA Digital Loop-Type Vehicle Detector Card, 4-Channel, Stretch/Delay.....	511.38	12.06
34 41 13 00-0048 EA Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Controller Cabinet.....	1,377.88	12.06
34 41 13 00-0049 EA Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Remote Detector Cabinet.....	1,377.88	12.06
34 41 13 00-0050 EA Power Line Surge Protector.....	130.50	7.23
34 41 13 00-0051 EA Loop Detector Surge Protector.....	68.29	7.23
34 41 13 00-0052 EA Controller Cabinet With 1 Detector Rack And 1 Load Switch Bay.....	8,683.51	1,199.37
34 41 13 00-0053 EA Controller Cabinet With 1 Detector Rack And 2 Load Switch Bays.....	9,399.32	1,199.37
34 41 13 00-0054 EA Controller Cabinet With 2 Detector Racks And 1 Load Switch Bay.....	10,259.54	1,199.37
34 41 13 00-0055 EA Controller Cabinet With 2 Detector Racks And 2 Load Switch Bays.....	10,523.26	1,199.37
34 41 13 00-0056 EA Speed Limit Beacon Control Option.....	3,779.16	319.84
34 41 13 00-0057 EA Speed Limit Beacon Control Cabinet.....	4,418.84	639.66
34 41 13 00-0058 EA Remote Detector Cabinet.....	2,472.35	639.66
34 41 13 00-0059 EA Traffic Signal Hand Control.....	652.75	106.61
34 41 13 00-0060 EA Load Switch.....	63.46	7.23
34 41 13 00-0061 EA Extra Pedestrian Detector Isolation Assembly.....	527.17	106.61
34 41 13 00-0062 EA Fiber Optic Transceivers-Repeater Module.....	813.38	193.00
34 41 13 00-0063 EA Field Transceiver-Repeater.....	375.42	48.25
34 41 13 00-0064 EA 30" Pedestal With Base Plate And Cover.....	559.98	97.04
34 41 13 00-0065 EA 42" Pedestal With Base Plate And Cover (Push Button Pedestal).....	651.69	101.45
34 41 13 00-0066 EA 8' Pedestal With Base Plate And Cover.....	810.73	113.81
34 41 13 00-0067 EA 11' Pedestal With Base Plate And Cover.....	901.08	123.51
34 41 13 00-0068 EA 15' Pedestal With Base Plate And Cover.....	1,005.44	147.34
34 41 13 00-0069 LF 6-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.15	
34 41 13 00-0070 LF 12-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.24	
34 41 13 00-0071 LF 24-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.42	
34 41 13 00-0072 LF 36-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.61	
34 41 13 00-0073 LF 48-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.80	
34 41 13 00-0074 LF 72-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.10	
34 41 13 00-0075 LF 96-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.40	
34 41 13 00-0076 LF 144-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.92	
34 41 13 00-0077 LF 3/16" Diameter Messenger Cable.....	0.53	0.09
34 41 13 00-0078 LF 1/4" Diameter Messenger Cable.....	0.63	0.09
34 41 13 00-0079 LF 3/8" Diameter Messenger Cable.....	1.17	0.09
34 41 13 00-0080 LF 1/2" Diameter Messenger Cable.....	2.41	0.18
34 41 13 00-0081 EA 4' Diameter x 10' Concrete Base For Poles..... Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.	2,348.19	
34 41 13 00-0082 EA 4' Diameter x 16' Concrete Base For Poles..... Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.	3,740.93	
34 41 13 00-0083 EA Internally Illuminated Street Name Sign, 1 Line, 4'.....	1,732.48	213.22

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0084 EA Internally Illuminated Street Name Sign, 1 Line, 6'	2,140.47	266.53
34 41 13 00-0085 EA Internally Illuminated Street Name Sign, 1 Line, 8'	2,347.55	319.84
34 41 13 00-0086 EA Internally Illuminated Street Name Sign, 1 Line, 10'	2,655.10	373.14
34 41 13 00-0087 EA Internally Illuminated Street Name Sign, 1 Line, 12'	2,862.17	426.45
34 41 13 00-0088 EA Internally Illuminated Street Name Sign, 2 Line, 4'	2,681.87	213.22
34 41 13 00-0089 EA Internally Illuminated Street Name Sign, 2 Line, 6'	3,305.86	266.53
34 41 13 00-0090 EA Internally Illuminated Street Name Sign, 2 Line, 8'	3,583.26	319.84
34 41 13 00-0091 EA Internally Illuminated Street Name Sign, 2 Line, 10'	4,011.36	373.14
34 41 13 00-0092 EA Internally Illuminated Street Name Sign, 2 Line, 12'	4,318.90	426.45
34 41 13 00-0093 EA Photoelectric Controller, Multi-Volt	69.02	25.09
34 41 13 00-0094 EA Photoelectric Controller, 120 Volt	82.36	25.09
34 41 13 00-0095 EA Photoelectric Controller, 480 Volt	82.36	25.09
34 41 13 00-0096 EA Wi-Fi Communication Unit	902.65	106.61
34 41 13 00-0097 EA Wi-Fi Communication Unit Mounting Bracket	222.71	79.95
34 41 13 00-0098 EA Wi-Fi Communication Unit Power Supply / POE Injector	193.26	53.31
34 41 13 00-0099 EA Wi-Fi Communication Unit Packet	1,638.47	159.92
34 41 13 00-0100 LF Preemptor Detector Cable	1.90	
34 41 13 00-0101 EA Sno-Shoe Cable Storage Assembly	174.26	
34 41 13 00-0102 EA 16" Pedestal With Base Plate And Cover	1,057.76	147.34
34 41 13 00-0103 EA Vehicle Signal Face, LED, 1 - 12" Section	398.70	135.93
34 41 13 00-0104 EA Vehicle Signal Face, LED, 2 - 12" Sections	633.70	191.90
34 41 13 00-0105 EA Vehicle Signal Face, LED, 3 - 12" Sections	870.95	234.54
34 41 13 00-0106 EA Vehicle Signal Face, LED, 3 - 12" Sections, Middle Section Blank	833.27	234.54
34 41 13 00-0107 EA Vehicle Signal Face, LED, 4 - 12" Sections	1,087.50	261.20
34 41 13 00-0108 EA Vehicle Signal Face, LED, 5 - 12" Sections	1,282.74	277.19
34 41 13 00-0109 EA Vehicle Signal Face, LED, 5 - 12" Sections, Cluster	1,355.58	277.19
34 41 13 00-0110 EA Vehicle Signal Face, LED, 1 - 8" Section	379.86	135.93
34 41 13 00-0111 EA Vehicle Signal Face, LED, 2 - 8" Sections	596.03	191.90
34 41 13 00-0112 EA Vehicle Signal Face, LED, 3 - 8" Sections	779.27	234.54
34 41 13 00-0113 EA Vehicle Signal Face, LED, 2 - 8" Sections, 1 - 12" Section	825.74	234.54
34 41 13 00-0114 EA Vehicle Signal Face, LED, 2 - 8" Sections, 2 - 12" Sections	1,007.13	261.20
34 41 13 00-0115 EA Vehicle Signal Face, LED, 3 - 8" Sections, 1 - 12" Section	980.76	261.20
34 41 13 00-0116 EA Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections	1,144.61	277.19
34 41 13 00-0117 EA Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections In Cluster	1,203.63	277.19
34 41 13 00-0118 EA Vehicle Signal Face, LED, 3 - 12" Sections, Optically Programmed	1,649.54	234.54
34 41 13 00-0119 EA Vehicle Signal Face, LED, 4 - 12" Sections, Optically Programmed	2,133.58	261.20
34 41 13 00-0120 EA Vehicle Signal Face, LED, 5 - 12" Sections, Optically Programmed	2,752.03	277.19
34 41 13 00-0121 EA Vehicle Signal Face, LED, 5 - 12" Sections In Cluster, Optically Programmed	2,971.80	277.19
34 41 13 00-0122 EA Bracket Signal Mounting Assembly	371.45	106.61
34 41 13 00-0123 EA Mast Arm Signal Mounting Assembly	670.08	213.22
34 41 13 00-0124 EA Top Pole Signal Mounting Assembly	237.78	79.95
34 41 13 00-0125 EA Pedestrian Signal Head	658.91	159.92
34 41 13 00-0126 EA Pedestrian Signal Insert	397.27	79.95
34 41 13 00-0127 EA Audible Pedestrian Signal	949.52	
34 41 13 00-0128 EA Junction Box, Pole Or Post Mounted	376.63	
34 41 13 00-0129 EA Pedestrian Push Button	351.02	
34 41 13 00-0130 EA Illuminated Sign, Bracket Mounted, Symbolic	2,654.59	
34 41 13 00-0131 EA Illuminated Sign, Mast Arm Mounted, Symbolic	2,778.85	
34 41 13 00-0132 EA Sign, Message, "BLANK OUT", Bracket Mounted	2,910.35	
34 41 13 00-0133 EA Sign, Message, "BLANK OUT", Mast Arm Mounted	3,100.18	
34 41 13 00-0134 EA Sign, Fiber Optic, Bracket Mounted	3,297.94	
34 41 13 00-0135 EA Sign, Fiber Optic, Mast Arm Mounted	3,491.80	
34 41 13 00-0136 EA 30' Type 15TS Signal And Lighting Standard Note: 8" diameter base and 3-7/8" diameter top. 0.1793" wall thickness.	4,987.99	
34 41 13 00-0137 EA 35' Type 21TS Signal And Lighting Standard Note: 9-3/8" diameter base and 3-9/16" diameter top. 0.1793" wall thickness.	5,768.22	
34 41 13 00-0138 EA 17' Type 18-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.1793" wall thickness.	2,836.39	
34 41 13 00-0139 EA 17' Type 18-3-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.2391" wall thickness.	3,137.63	
34 41 13 00-0140 EA 17' Type 18-4-100 Or 23-4-100 Signal And Lighting Standard Note: 12" diameter base and 9" diameter top. 0.2391" wall thickness.	3,253.11	
34 41 13 00-0141 EA 17' Type 23-3-100 Signal And Lighting Standard Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.	3,253.11	
34 41 13 00-0142 EA 17' Type 23-4-100 Signal And Lighting Standard Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.	3,313.74	
34 41 13 00-0143 EA 17' Type 27-3-100 Signal And Lighting Standard Note: 12-1/8" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.	3,616.88	
34 41 13 00-0144 EA 17' Type 27-4-100 Signal And Lighting Standard Note: 13-1/2" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.	3,686.58	
34 41 13 00-0145 EA 17' Type 28-5-100 Signal And Lighting Standard Note: 14" diameter base and 11-11/16" diameter top. 0.3125" wall thickness.	3,829.51	
34 41 13 00-0146 EA 17' Type 60-5-100 Signal And Lighting Standard Note: 16" diameter base and 13-11/16" diameter top. 0.3125" wall thickness.	4,054.62	
34 41 13 00-0147 EA 18'-6" Type 16-2-100 Or 16-3-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 8-1/4" diameter top. 0.1793" wall thickness.	3,013.60	
34 41 13 00-0148 EA 30' Type 17-2-100 Or 17-3-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.1793" wall thickness.	5,304.30	
34 41 13 00-0149 EA 30' Type 19-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.2391" wall thickness.	5,936.91	
34 41 13 00-0150 EA 30' Type 19-3-100 Or 24-3-100 Signal And Lighting Standard Note: 12" diameter base and 7-7/8" diameter top. 0.2391" wall thickness.	6,179.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0151 EA 30' Type 19-4-100 Or 24-4-100 Signal And Lighting Standard..... Note: 12" diameter base and 8" diameter top. 0.2391" wall thickness.	6,179.42	
34 41 13 00-0152 EA 30' Type 26-3-100 Signal And Lighting Standard..... Note: 12-1/8" diameter base and 8" diameter top. 0.3125" wall thickness.	6,943.29	
34 41 13 00-0153 EA 30' Type 26-4-100 Signal And Lighting Standard..... Note: 13-1/2" diameter base and 8" diameter top. 0.3125" wall thickness.	7,236.12	
34 41 13 00-0154 EA 30' Type 29-5-100 Signal And Lighting Standard..... Note: 14" diameter base and 9-7/8" diameter top. 0.3125" wall thickness.	7,543.57	
34 41 13 00-0155 EA 30' Type 61-5-100 Signal And Lighting Standard..... Note: 16" diameter base and 11-7/8" diameter top. 0.3125" wall thickness.	8,027.84	
34 41 13 00-0156 EA 35' Type 17A-2-100 Signal And Lighting Standard..... Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.1793" wall thickness.	6,162.47	
34 41 13 00-0157 EA 35' Type 19A-2-100 Signal And Lighting Standard..... Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.2391" wall thickness.	6,900.52	
34 41 13 00-0158 EA 35' Type 19A-3-100 Or 24A-3-100 Signal And Lighting Standard..... Note: 12" diameter base and 7-3/16" diameter top. 0.2391" wall thickness.	7,183.44	
34 41 13 00-0159 EA 35' Type 19A-4-100 Or 24A-4-100 Signal And Lighting Standard..... Note: 12" diameter base and 7-5/16" diameter top. 0.2391" wall thickness.	7,183.44	
34 41 13 00-0160 EA 35' Type 26A-3-100 Signal And Lighting Standard..... Note: 12-1/8" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.	8,074.63	
34 41 13 00-0161 EA 35' Type 26A-4-100 Signal And Lighting Standard..... Note: 13-1/2" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.	8,416.26	
34 41 13 00-0162 EA 35' Type 29A-5-100 Signal And Lighting Standard..... Note: 14" diameter base and 9-3/16" diameter top. 0.3125" wall thickness.	8,774.96	
34 41 13 00-0163 EA 35' Type 61A-5-100 Signal And Lighting Standard..... Note: 16" diameter base and 11" diameter top. 0.3125" wall thickness.	9,339.92	
34 41 13 00-0164 EA 15' Steel Straight Mast Arm, MONOTUBE.....	2,119.00	
34 41 13 00-0165 EA 20' Steel Straight Mast Arm, MONOTUBE.....	2,227.21	
34 41 13 00-0166 EA 25' Steel Straight Mast Arm, MONOTUBE.....	2,378.24	
34 41 13 00-0167 EA 30' Steel Straight Mast Arm, MONOTUBE.....	3,166.90	
34 41 13 00-0168 EA 35' Steel Straight Mast Arm, MONOTUBE.....	3,793.81	
34 41 13 00-0169 EA 40' Steel Straight Mast Arm, MONOTUBE.....	4,067.12	
34 41 13 00-0170 EA 45' Steel Straight Mast Arm, MONOTUBE.....	4,479.99	
34 41 13 00-0171 EA 50' Steel Straight Mast Arm, MONOTUBE.....	5,083.73	
34 41 13 00-0172 EA 55' Steel Straight Mast Arm, MONOTUBE.....	5,804.91	
34 41 13 00-0173 EA 60' Steel Straight Mast Arm, MONOTUBE.....	6,295.61	
34 41 13 00-0174 EA 65' Steel Straight Mast Arm, MONOTUBE.....	7,298.27	
34 41 13 00-0175 EA 4' Steel Curved Luminaire Mast Arm.....	732.69	
For High Rise Arm, Add	56.33	
For High Rise Straight Arm, Add	45.07	
34 41 13 00-0176 EA 6' Steel Curved Luminaire Mast Arm.....	949.85	
For High Rise Arm, Add	75.31	
For High Rise Straight Arm, Add	60.25	
34 41 13 00-0177 EA 8' Steel Curved Luminaire Mast Arm.....	1,188.31	
For High Rise Arm, Add	94.29	
For High Rise Straight Arm, Add	75.43	
34 41 13 00-0178 EA 10' Steel Curved Luminaire Mast Arm.....	1,653.07	
For High Rise Arm, Add	110.86	
For High Rise Straight Arm, Add	88.69	
34 41 13 00-0179 EA 12' Steel Curved Luminaire Mast Arm.....	1,815.11	
For High Rise Arm, Add	130.74	
For High Rise Straight Arm, Add	104.59	
34 41 13 00-0180 EA 15' Steel Curved Luminaire Mast Arm.....	1,886.04	
For High Rise Arm, Add	145.80	
For High Rise Straight Arm, Add	116.64	
34 41 13 00-0181 EA 20' Steel Curved Luminaire Mast Arm.....	2,132.82	
For High Rise Arm, Add	174.12	
34 41 13 00-0182 EA 15' Tubular Aluminum Post.....	780.18	
34 41 13 00-0183 EA 17' Tubular Aluminum Post.....	833.82	
34 41 13 00-0184 EA 20' Tubular Aluminum Post.....	929.98	
34 41 13 00-0185 EA CUT-OFF POLE AND CAPPED.....	145.39	
34 41 13 00-0186 EA PAINT EXISTING SL/TS CONTROLLER COMPLETE.....	43.10	
34 41 13 00-0187 EA PAINT EXISTING TS POST COMPLETE.....	206.10	
34 41 13 00-0188 EA 1 Channel Loop Detector Amp.....	1,103.65	
34 41 13 00-0189 EA 4 Channel Loop Detector Amp.....	2,062.67	
34 41 13 00-0190 EA FLASHING BEACON WITH DOWNLIGHT.....	1,643.45	
34 41 13 00-0191 EA Flashing Beacon, Bracket Mounted.....	595.52	
34 41 13 00-0192 EA Flashing Beacon, Mast Arm Mounted.....	595.52	
34 41 13 00-0193 EA Flashing Beacon, Solar Powered, Bracket Mounted.....	14,117.12	
34 41 13 00-0194 EA Wireless Access Point (Proxim Tsunami MP11 954-BSUR-US).....	2,315.68	
34 41 13 00-0195 EA Ruggedized Subscriber Unit (Proxim Tsunami MP11 954-SUA-US).....	1,255.68	
34 41 13 00-0196 EA Smart Sensor HD (Wavetronix HD125).....	6,570.35	
34 41 13 00-0197 EA Access Point (Sensys AP240-ES).....	3,052.20	
Note: RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality.		
34 41 13 00-0198 EA Sensys Access Point AP240-ESC-VER - RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality with Integrated 1xRTT cellular data modem for data relay via CDMA.....	5,263.75	
34 41 13 00-0199 EA Mounting Kit for Access Points and Repeaters (KIT-MTG).....	199.83	
34 41 13 00-0200 EA Repeater (Sensys RP240-B-LL).....	1,399.45	
Note: Nominal battery capacity of 171 Ah with seven (7) year battery-life.		
34 41 13 00-0201 EA Wireless Flush Mounted Sensor (Sensys VSN240-F).....	646.31	
Note: Excludes coring.		

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

34 41 13 00-0202	EA	Sensor Mounting Bracket, Cable, Lightning Surge Protector, Power Supply, Breaker, AC Surge Protector, Din Rail and Power Plug	1,628.13	
34 41 13 00-0203	EA	Pole Base Foundation for 17-2-80, 17-2-100, 19-2-80 Poles.....	4,541.55	1.41
34 41 13 00-0204	EA	Pole Base Foundation for 17-3-80, 19-3-80, 26-3-80 & 26-4-80 Poles.....	5,912.60	1.41
34 41 13 00-0205	EA	Pole Base Foundation for Type 15 and 21 Poles.....	3,563.75	1.41
34 41 13 00-0206	EA	Pole Base Foundation for 18-4-100, 19-4-100, 23-4-100, And 24-4-100 Poles.....	4,541.55	1.41
34 41 13 00-0207	EA	Pole Base Foundation for 26-4-100 And 27-4-100 Poles.....	5,912.60	1.41
34 41 13 00-0208	EA	Service Equipment Enclosure, Type III-AF	856.23	
34 41 13 00-0209	EA	12", 3 Section Signal, Mast Arm Mounted.....	1,191.42	
34 41 13 00-0210	EA	8", 3 Section Signal, Mast Arm Mounted.....	1,064.67	
34 41 13 00-0211	EA	12" FCV Visor	63.69	
34 41 13 00-0212	EA	8" FCV Visor.....	46.94	
34 41 13 00-0213	EA	Eggcrate Visor	61.61	
34 41 13 00-0214	EA	Pedestrian H/M.....	740.69	
34 41 13 00-0215	EA	Pedestrian Audio.....	802.38	
34 41 13 00-0216	EA	Adjustable Pushbutton	217.03	
34 41 13 00-0217	EA	ADA Cap And Switch.....	263.12	
34 41 13 00-0218	EA	3 Section 12" Backplate	105.46	
34 41 13 00-0219	EA	3 Section 12" MAS Mount Backplate	155.70	
34 41 13 00-0220	EA	3 Section 8" Backplate.....	86.12	
34 41 13 00-0221	EA	12" Red LED Lenses.....	176.76	
34 41 13 00-0222	EA	12" Amber LED Lenses.....	188.28	
34 41 13 00-0223	EA	12" Green LED Lenses	314.70	
34 41 13 00-0224	EA	12" Red Arrow.....	175.83	
34 41 13 00-0225	EA	12" Amber Arrow.....	167.39	
34 41 13 00-0226	EA	12" Green Arrow	241.34	
34 41 13 00-0227	EA	8" Red	174.12	
34 41 13 00-0228	EA	8" Amber	167.89	
34 41 13 00-0229	EA	8" Green.....	198.64	
34 41 13 00-0230	EA	Hand/Man	296.71	
34 41 13 00-0231	EA	Frameworks, 8" TV-1-T.....	362.46	
34 41 13 00-0232	EA	Frameworks, 8" TV-2-T.....	407.23	
34 41 13 00-0233	EA	Frameworks, MAT MT	111.26	
34 41 13 00-0234	EA	Frameworks, MAS MT	120.21	
34 41 13 00-0235	EA	Frameworks, 3W PT TC	270.32	
34 41 13 00-0236	EA	Frameworks, 2W PT TC	241.09	
34 41 13 00-0237	EA	Frameworks, 2W SM TC.....	229.15	
34 41 13 00-0238	EA	Frameworks, SV-1	154.21	
34 41 13 00-0239	EA	Frameworks, TV-1	149.73	
34 41 13 00-0240	EA	Type III Service Pedestal	2,729.15	
34 41 13 00-0241	EA	Single Fuse Holder	29.80	
34 41 13 00-0242	EA	Double Fuse Holder.....	67.39	
34 41 13 00-0243	EA	Pullbox, 1-1/2" x 20" x 14".....	69.39	
34 41 13 00-0244	EA	Pullbox, 5" x 28" x 18".....	92.15	
34 41 13 00-0245	EA	Pullbox, 6" x 36" x 23".....	119.23	
34 41 13 00-0246	EA	Pullbox Lids, FL9D.....	66.98	
34 41 13 00-0247	EA	Pullbox Lids, FL30D.....	121.95	
34 41 13 00-0248	EA	Pullbox Lids, FL36D.....	35.84	
34 41 13 00-0249	EA	LED Enhanced Pedestrian Crossing Symbol Sign.....	1,170.75	88.22
		Note: 2 required per system.		
34 41 13 00-0250	EA	42" Height, 8-1/2" Diameter Automatic Bollard Activation System.....	3,456.21	529.34
		Note: 4 required per system.		
34 41 13 00-0251	EA	Power Control Unit With Enclosure (Solar).....	11,333.57	352.89
		Note: LightGuard Systems solar power equipment Includes: one solar array consisting of 1 Siemens SP70 solar power module (21" x 47" to be pole mounted, pole not included), #14 AWG solar tray cable, mounting hardware, one enclosure (16-1/2" width x 27-1/2" height x 15" depth), two 12V 80AH deep cycle gel cell batteries and a solar power control unit (PCU).		
34 41 13 00-0252	EA	Power Control Unit With Enclosure (A/C)	7,337.79	352.89
34 41 13 00-0253	EA	Push Button Assembly With Sign.....	725.94	176.45
34 41 13 00-0254	EA	Advanced Warning Signs.....	1,339.40	176.45
34 41 13 00-0255	EA	14' High Galvanized Steel Traffic Signal Pole.....	2,535.15	
		Note: For mast arm.		
34 41 13 00-0256	EA	21' High Galvanized Steel Traffic Signal Pole.....	3,780.29	
		Note: For mast arm.		
34 41 13 00-0257	EA	22' High Galvanized Steel Traffic Signal Pole.....	3,920.87	
		Note: For mast arm and luminare arm.		
34 41 13 00-0258	EA	30' High Galvanized Steel Traffic Signal Pole, Tapered, For >55' Mast Arm	5,300.63	
		Note: For mast arm and luminare arm.		
34 41 13 00-0259	EA	32' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm.....	5,547.59	
		Note: For mast arm and luminare arm.		
34 41 13 00-0260	EA	30' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm.....	4,405.39	
34 41 13 00-0261	EA	30' High Galvanized Steel Traffic Signal Pole, Octafute.....	3,947.64	
34 41 13 00-0262	EA	30' (High Spun Aluminum Traffic Signal Pole, Tapered	3,255.28	
34 41 13 00-0263	EA	Type 26-6-70 Signal Pole With 55' SMA And 20' LMA.....	14,856.75	
34 41 13 00-0264	EA	Type 29-6-70 Signal Pole With 65' SMA And 20' LMA.....	17,254.34	
34 41 13 00-0265		Traffic Signal Cable <small>(34 41 13)</small>		
34 41 13 00-0266	LF	16 AWG, 2-Conductor, Solid, Traffic Signal Cable.....	1.65	0.75
34 41 13 00-0267	LF	16 AWG, 3-Conductor, Solid, Traffic Signal Cable.....	1.82	0.80
34 41 13 00-0268	LF	16 AWG, 4-Conductor, Solid, Traffic Signal Cable.....	1.99	0.85
34 41 13 00-0269	LF	16 AWG, 5-Conductor, Solid, Traffic Signal Cable.....	2.16	0.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0270 LF 16 AWG, 6-Conductor, Solid, Traffic Signal Cable	2.35	0.95
34 41 13 00-0271 LF 16 AWG, 8-Conductor, Solid, Traffic Signal Cable	2.70	1.06
34 41 13 00-0272 LF 16 AWG, 10-Conductor, Solid, Traffic Signal Cable	3.15	1.22
34 41 13 00-0273 LF 16 AWG, 12-Conductor, Solid, Traffic Signal Cable	3.61	1.38
34 41 13 00-0274 LF 16 AWG, 16-Conductor, Solid, Traffic Signal Cable	4.21	1.54
34 41 13 00-0275 LF 16 AWG, 20-Conductor, Solid, Traffic Signal Cable	4.91	1.70
34 41 13 00-0276 LF 14 AWG, 2-Conductor, Solid, Traffic Signal Cable	1.69	0.75
34 41 13 00-0277 LF 14 AWG, 3-Conductor, Solid, Traffic Signal Cable	1.88	0.80
34 41 13 00-0278 LF 14 AWG, 4-Conductor, Solid, Traffic Signal Cable	2.07	0.85
34 41 13 00-0279 LF 14 AWG, 5-Conductor, Solid, Traffic Signal Cable	2.25	0.91
34 41 13 00-0280 LF 14 AWG, 6-Conductor, Solid, Traffic Signal Cable	2.46	0.95
34 41 13 00-0281 LF 14 AWG, 8-Conductor, Solid, Traffic Signal Cable	2.84	1.06
34 41 13 00-0282 LF 14 AWG, 10-Conductor, Solid, Traffic Signal Cable	3.33	1.22
34 41 13 00-0283 LF 14 AWG, 12-Conductor, Solid, Traffic Signal Cable	3.82	1.38
34 41 13 00-0284 LF 14 AWG, 16-Conductor, Solid, Traffic Signal Cable	4.49	1.54
34 41 13 00-0285 LF 14 AWG, 20-Conductor, Solid, Traffic Signal Cable	5.29	1.70
34 41 13 00-0286 LF 12 AWG, 2-Conductor, Solid, Traffic Signal Cable	1.78	0.75
34 41 13 00-0287 LF 12 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.02	0.80
34 41 13 00-0288 LF 12 AWG, 4-Conductor, Solid, Traffic Signal Cable	2.25	0.85
34 41 13 00-0289 LF 12 AWG, 5-Conductor, Solid, Traffic Signal Cable	2.46	0.91
34 41 13 00-0290 LF 12 AWG, 6-Conductor, Solid, Traffic Signal Cable	2.72	0.95
34 41 13 00-0291 LF 12 AWG, 8-Conductor, Solid, Traffic Signal Cable	3.18	1.06
34 41 13 00-0292 LF 12 AWG, 10-Conductor, Solid, Traffic Signal Cable	3.76	1.22
34 41 13 00-0293 LF 12 AWG, 12-Conductor, Solid, Traffic Signal Cable	4.33	1.38
34 41 13 00-0294 LF 12 AWG, 16-Conductor, Solid, Traffic Signal Cable	5.17	1.54
34 41 13 00-0295 LF 12 AWG, 20-Conductor, Solid, Traffic Signal Cable	6.19	1.70
34 41 13 00-0296 School Zone Flasher Beacons (34 41 13)		
34 41 13 00-0297 EA One 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	3,423.99	160.35
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0298 EA One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	3,447.85	160.35
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0299 EA Two 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	3,852.85	160.35
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0300 EA Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	3,929.19	160.35
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0301 EA 10" Digit Radar Display, One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	7,153.21	160.35
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 80 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0302 EA 10" Digit Radar Display, Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	7,452.37	160.35
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0303 Traffic Light Control Synchronization (34 41 13)		
34 41 13 00-0304 EA ENCOM COMPAK IP Radio/Wireless Ethernet Transceiver, 900 MHz FHSS 1 Watt output power and 128-bit data encryption with 1.1Mbps Throughput.....	3,006.16	
34 41 13 00-0305 EA ENCOM 5200R 900 MHz Serial Radio Modem, contains one Serial (RS-232 or RS-485) interface and 170/TS1/TS2 detector rack (EPR-5200R)	2,268.63	
34 41 13 00-0306 EA ENCOM Dual 2.4/2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24/24)	5,373.12	
34 41 13 00-0307 EA 5.8 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB58INT)	3,596.23	
34 41 13 00-0308 EA 2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24INT)	3,596.23	
34 41 13 00-0309 EA Solar Cabinet Assembly	9,967.06	
34 41 13 00-0310 EA Data Controller Interface Cable Assembly	412.86	
34 41 13 00-0311 EA 900 MHZ Splitter.....	454.24	
34 41 13 00-0312 EA 900 MHZ Surge Suppressor.....	160.92	
34 41 13 00-0313 EA Surge-Radio Lead in Cable.....	101.08	
34 41 13 00-0314 EA 12DB GAIN YAGI Antenna	488.14	
34 41 13 00-0315 EA PELCO Antenna Mounting Bracket	342.59	
34 41 13 00-0316 MLF Coaxial Cable, LMR-400.....	2,458.03	
34 41 13 00-0317 EA Perle 16 Port Serial Server	2,864.94	
34 41 13 00-0318 EA Serial to Ethernet Card	1,409.15	
34 41 13 00-0319 EA 404 Stand Alone Modem (GDI 404).....	1,240.97	
34 41 13 00-0320 Traffic Signal Controls (34 41 13)		
34 41 13 00-0321 EA Master Card for Type 2070 or NEMA TS2 traffic controllers (CC-TS2)	1,133.46	
34 41 13 00-0322 EA Extension Card for Type 2070 or NEMA traffic controllers (EX-TS2).....	433.53	
34 41 13 00-0323 EA AccessBox for contract closure master card (CC-ACC)	155.36	
34 41 13 00-0324 EA Flush Mount Wireless Sensor (ATT VSN240-F)	602.78	
34 41 13 00-0325 EA Flush Mount Wireless Sensor (Speed & Count VSN240-F).....	602.78	
34 41 13 00-0326 EA Epoxy Tube for Installation of Wireless Sensor (VSN240-EPX)	93.81	
34 41 13 00-0327 EA SNAPS License for each enabled AP (SNAPS-PER-AP)	251.24	
34 41 13 00-0328 Traffic Signal Devices (34 41 13)		

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41	13 00-0329	EA	12" Polycarbonate Signal Head Housing (McCain).....	589.12	79.41
34 41	13 00-0330	EA	16" Polycarbonate Pedestrian Signal Housing (McCain).....	311.77	61.76
34 41	13 00-0331	EA	Pedestrian Push Button Cap & Switch (McCain M31334).....	272.41	114.69
34 41	13 00-0332	EA	Pedestrian Push Button Frame Assembly 4" Diameter Pole (McCain M19712).....	378.28	167.62
34 41	13 00-0333	EA	Pedestrian Push Button Frame Assembly 2" Diameter Pole (McCain M30793).....	292.63	132.33
34 41	13 00-0334	EA	16 Channel Conflict Monitor (McCain 2010 ECLIP).....	851.61	57.35
34 41	13 00-0335	EA	LED Countdown Head (McCain GTX PS7-CFF1-VLA).....	180.74	22.06
34 41	13 00-0336	EA	Traffic signal Video Detection Camera (Iteris RZ4-awdr).....	1,909.99	97.04
34 41	13 00-0337	EA	Camera processor card (Iteris Edge Connect).....	4,316.56	141.15
34 41	13 00-0338	EA	Wireless Broadband Radio (Encorn BB58).....	4,075.68	132.33
34 41	13 00-0339	EA	24-port Gigabit and 4-port 1G/10G SFP+ Ethernet Switch (Etherwan EX77900).....	2,702.22	105.86
34 41	13 00-0340	EA	Power Adapter (Mean Well DR-120-48).....	110.93	33.08
34 41	13 00-0341	LF	14/1 Cal Trans Type 2 Inductive Traffic Detection Loops (Advanced Digital Cable 8452).....	0.72	
34 41	13 00-0342	EA	Radar Detection System (Wavetronix Matrix).....	7,978.65	335.25
34 41	13 00-0343	EA	Pedestrian Audio Push Button (Polaris APS).....	274.96	83.81
34 41	13 00-0344	EA	Opticom Infrared System - Detector (GTT 711).....	637.20	78.69
34 41	13 00-0345	EA	Opticom Infrared System - Detector (GTT 721).....	712.91	88.04
34 41	13 00-0346	EA	Opticom Infrared System - Detector (GTT 722).....	992.94	122.63
34 41	13 00-0347	EA	Opticom Multimode Phase Selector (GTT 764).....	3,104.48	72.48
34 41	13 00-0348	LF	Opticom GPS Installation Cable (GTT 1070).....	0.84	
34 41	13 00-0349	EA	Precast Concrete Traffic Pull Box, 5-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1324).....	534.57	
34 41	13 00-0350	EA	Precast Concrete Traffic Pull Box, 6-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1730).....	566.81	
34 41	13 00-0351	EA	UPS Module (Alpha Technologies FXM 350).....	858.11	48.25
			Note: For battery backup in traffic signal control cabinet		
34 41	13 00-0352	EA	Web Connected Relay Switch (Control by Web X-301 WebRelay-Dual).....	283.76	39.70
			Note: To control flashing "School" signs		
34 41	13 00-0353	LF	Fiber optic cable, 72 strand, single mode, riser non-plenum jacket (Optical Cable Corp DX072DSLX9KR).....	6.05	0.40
34 41	13 00-0354	LF	Fiber optic cable, 12 strand, multi mode, riser non-plenum jacket (Superior Essex W30126G01 MM Fiber).....	1.58	0.35
34 41	13 00-0355	EA	12" LED Signal Module, Tinted Lens, Red (GE DR6-RTFB-VLA).....	96.29	39.70
34 41	13 00-0356	EA	12" LED Signal Module, Tinted Lens, Yellow (GE DR6-YTFB-VLA).....	96.29	39.70
34 41	13 00-0357	EA	12" LED Signal Module, Tinted Lens, Green (GE DR6-GTFB-VLA).....	96.29	39.70
34 41	13 00-0358	EA	12" LED Signal Module, Clear Lens, Red (GE DR6-RCFB-VLA).....	96.29	39.70
34 41	13 00-0359	EA	12" LED Signal Module, Clear Lens, Yellow (GE DR6-YCFB-VLA).....	96.29	39.70
34 41	13 00-0360	EA	12" LED Signal Module, Clear Lens, Green (GE DR6-GCFB-VLA).....	96.29	39.70
34 41	13 00-0361	EA	LED Countdown Pedestrian Signal, 16" x 18" (GE PS7-CFF1-VLA).....	276.96	101.45
34 41	13 00-0362	EA	EOC Switch (Actellis ML688).....	3,216.83	313.63
34 41	13 00-0363	EA	Ethernet Extender Kit (ENABLE-IT 860 Pro).....	859.86	72.38
34 41	13 00-0364	EA	#5 pull box lid (Concrete, Bolt down) (Christy N30T).....	75.11	18.41
34 41	13 00-0365	EA	#5 pull box lid (Steel, Bolt down) (Christy N30-61J).....	249.13	26.65
34 41	13 00-0366	EA	#6 pull box lid (Concrete, Bolt down) (Christy N36T).....	91.16	18.41
34 41	13 00-0367	EA	#6 pull box lid (Steel, Bolt down) (Christy N36-61J).....	298.83	26.65
34 41	13 00-0368	EA	Battery Back-up (Alpha FXM110 UPS).....	2,024.59	96.51
34 41	13 00-0369	EA	Battery (Alpha AlphaCell 220GXL).....	292.46	24.13
34 41	13 00-0370	EA	BBS Cabinet (Alpha SE48-1616).....	2,387.94	217.13
34 41	13 00-0371	LF	Fiber 72 Strands (Corning 072ZU4-T3F22D20).....	4.51	1.88
34 41	13 00-0372	LF	Fiber 12 Strands (Corning 012ZU4-T3F22D20).....	2.00	0.87
34 41	13 00-0373	EA	FDU & Splice Cassette with LC connector type (Corning CCH-01U, CCH-CS12-B3-P00RE).....	744.63	72.38
34 41	13 00-0374	EA	12" THREE SECTION HOUSING (McCain M22435).....	511.67	48.25
34 41	13 00-0375	EA	12" FOUR SECTION HOUSING (McCain M30883).....	663.70	72.38
34 41	13 00-0376	EA	12" FIVE SECTION HOUSING (McCain M31769).....	767.49	72.38
34 41	13 00-0377	EA	12" CLUSTER, WITHOUT MAS (McCain M30987).....	819.39	72.38
34 41	13 00-0378	EA	CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	511.67	48.25
34 41	13 00-0379	EA	NAVIGATOR iN2 APS 2 WIRE PPB #IN250N0-B (Polaris iN250N0-B).....	511.67	48.25
34 41	13 00-0380	EA	NAVIGATOR iN2 CONTROLLER RACK MOUNT iCCU-C (Polaris iCCU-C).....	2,932.51	168.87
34 41	13 00-0381	EA	NAVIGATOR iN2 INTERCONNECT BOARD iN2-ICB-C (Polaris iN2-ICB-C).....	152.04	24.13
34 41	13 00-0382	EA	NAVIGATOR iN2 POWER SUPPLY iN2-150-WPS-C (Polaris iN2-150-WPS-C).....	152.04	24.13
34 41	13 00-0383	EA	NAVIGATOR iN2 CONNECTOR iN2-C4CABLE-C (Polaris iN2-c4cable-C).....	331.86	36.19
34 41	13 00-0384	EA	12" Visor (McCain M19302).....	29.68	9.65
34 41	13 00-0385	EA	LS,2202-HV (iPack), HDSP/FLASHER UNIT,ATC (McCain M36256).....	279.96	36.19
34 41	13 00-0386	EA	SIU,2218 SERIAL INTERFACE UNIT,ATC (McCain M36258).....	459.77	48.25
34 41	13 00-0387	EA	CMU,2212-HV (ip),32 CH W/ ETHERNET PORT, ATC (McCain M36259).....	845.33	72.38
34 41	13 00-0388	EA	ATCC-HV, INPUT ASSEMBLY, 24 CH W/ CONN IDC26 (McCain M54487).....	459.77	48.25
34 41	13 00-0389	EA	HARN, SB1/SB2,COMM EXTENSION (McCain M48062).....	100.15	24.13
34 41	13 00-0390	EA	ATCC-HV/LV, FITA ASSEMBLY, 24CH (McCain M54489).....	279.96	36.19
34 41	13 00-0391	EA	CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	511.67	48.25
34 41	13 00-0392	EA	242L ISOLATOR, EDI (McCain M56812).....	100.15	24.13
34 41	13 00-0393	EA	EDI 222 DETECTOR (McCain M11407).....	126.09	24.13
34 41	13 00-0394	EA	ALPHA BBS, INVERTER & BYPASS SWITCH (McCain M59763).....	2,005.68	120.63
34 41	13 00-0395	EA	GENERATOR SWITCH AND PLUG ASS'Y FOR ALPHA BBS (McCain M68752-2).....	345.61	48.25
34 41	13 00-0396	EA	BBS BATTERY, ALPHACELL 165GXL (McCain M59884).....	459.77	48.25
34 41	13 00-0397	EA	Battery Backup Cabinet Anodize 44x26x12 (McCain M64438A).....	949.12	72.38

34 41 16 Traffic Control Equipment (34 41)**34 41 16 00-0001 Transportation Control Equipment (34 41 16)**

34 41	16 00-0002	EA	CONTROLLER/SL/POLE MTD/1-PHASE/100A.....	6,945.64	736.89
34 41	16 00-0003	EA	CONTROLLER/SL/ON EMB POLE 1-PH/100A.....	7,030.54	779.32
34 41	16 00-0004	EA	CONTROLLER, SL, 3-PHASE, 100A, BASE MTD.....	8,529.82	788.50
34 41	16 00-0005	EA	CONTROLLER, SL, 3-PHASE, 200A, BASE MTD.....	10,144.73	957.37



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
	34 41 16 00-0006	EA		CONTROLLER/SL/BASE MTD/1-PHASE/100A.....	8,264.82	472.29	
	34 41 16 00-0007	EA		CONTROLLER/SL/BASE MTD/1-PHASE/200A.....	9,161.72	517.06	
	34 41 16 00-0008	EA		CONTROLLER, TS, 12-BAY, "M" CABINET.....	15,081.43	812.91	
	34 41 16 00-0009	EA		CONTROLLER, TS, 12-BAY, "P" CABINET.....	16,060.66	900.87	
	34 41 16 00-0010	EA		CONTROLLER, TS, 12-BAY "P" CABINET With FO MASTER.....	22,911.94	1,012.81	
	34 41 16 00-0011	EA		CONTROLLER, TS, 16-BAY, "P" CABINET.....	18,186.23	959.50	
	34 41 16 00-0012	EA		CONTROLLER, PEDESTRIAN CROSSING, ADD-IN.....	556.65	112.69	
	34 41 16 00-0013	EA		CONCRETE BLOCK PEDESTAL.....	647.73	169.19	
	34 41 16 00-0014	WK		MAINTAIN EXIST TS INSTALLATION.....	268.21	134.10	
	34 41 16 00-0015	EA		INST SIGN BOARDS, ST. NAME.....	469.54	223.14	
	34 41 16 00-0016	EA		F.O. ADD-IN FOR LOCAL CONTROLLER.....	7,632.48	301.99	
	34 41 16 00-0017	EA		F.O. ADD-IN FOR MASTER CONTROLLER.....	18,378.36	453.11	
	34 41 16 00-0018	Transportation Cabinets (34 41 16)					
	34 41 16 00-0019	Transportation Cabinets (Dudlik Enclosures) (34 41 16 00-0018)					
	34 41 16 00-0020	EA		50" x 30" x 17", Aluminum CCTV Cabinet (Dudlik Enclosures).....	1,633.72	144.75	
	34 41 16 00-0021	EA		66" x 48" x 30", Quad Door, 19" Racks, Aluminum CCTV Cabinet (Dudlik Enclosures).....	6,728.17	144.75	
	34 41 16 00-0022	EA		46" x 30" x 20", 19" Rack, Aluminum TTS Cabinet (Dudlik Enclosures).....	1,532.06	144.75	
	34 41 16 00-0023	EA		50" x 30" x 17", Aluminum ITS Controller Cabinet (Dudlik Enclosures).....	1,633.72	144.75	
	34 41 16 00-0024	EA		60" x 50" x 36", Quad Door, 19" Racks, Aluminum Fiber Cross Connect Cabinet (Dudlik Enclosures).....	6,954.09	144.75	
	34 41 16 00-0025	EA		55" x 16" x 17", Aluminum ITS Meter Cabinet (Dudlik Enclosures).....	1,080.22	144.75	
	34 41 16 00-0026	Transportation Cabinets (APX Enclosures) (34 41 16 00-0018)					
	34 41 16 00-0027	EA		28" Wide, 16" Depth, 46" High, ITS Controller Cabinet (APX Enclosure LS503017).....	3,885.21	168.87	
				Note: 3R, single door, pad mounted aluminum enclosure. Includes natural finish, aluminum back panel, light kit with door switch, thermostatically controlled fan kit, heater kit with thermostat, one aluminum moveable shelf, and one aluminum moveable shelf with slide out drawer. Excludes pad.			
	34 41 16 00-0028	Transportation Cabinets (Transportation Control Systems) (34 41 16 00-0018)					
	34 41 16 00-0029	EA		30" Wide, 16" Depth, 48" High, Type 4, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B483016B2D2S).....	1,543.60	144.75	
	34 41 16 00-0030	EA		30" Wide, 16" Depth, 60" High, Type 4 Stretch, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B603016B2D2S).....	1,911.25	154.41	
	34 41 16 00-0031	Transportation Cabinets (McCain) (34 41 16 00-0018)					
	34 41 16 00-0032	EA		24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 352i).....	7,021.71	168.87	
				Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.			
	34 41 16 00-0033	EA		24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 332).....	7,021.71	168.87	
				Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.			
	34 41 16 00-0034	EA		ATC ColdFire Controller (McCain 170).....	3,652.68		
	34 41 16 00-0035	Traffic Control Equipment (34 41 16)					
	34 41 16 00-0036	EA		ProStar PWM Charge Controller 12/24V, 15A Without Display (Morningstar PS-15).....	201.95	48.25	
	34 41 16 00-0037	EA		ProStar PWM Charge Controller 12/24V, 15A With Display (Morningstar PS-15M).....	259.08	48.25	
	34 41 16 00-0038	EA		ProStar PWM Charge Controller 12/24V, 30A With Display (Morningstar PS-30M).....	295.36	48.25	
	34 41 16 00-0039	EA		ProStar PWM Charge Controller 12/24V, 30A Without Display (Morningstar PS-30).....	233.67	48.25	
	34 41 16 00-0040	MLF		10 AWG, 2 Conductor, 600V, Type TC, Non-Shielded Control Tray Cable (EnerSys A51002R).....	1,869.25	529.34	
	34 41 16 00-0041	EA		Vehicle Detector, Circuit Breaker, 0.2 Amp, Wavetronix SmartSensor (Wavetronix WX-CLK-210-02).....	83.09	24.13	
	34 41 16 00-0042	EA		Vehicle Detector, 2.4 GHz 12 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0141).....	350.75	53.44	
	34 41 16 00-0043	EA		Detection System, Vehicle, Two Sensor Preamsembled Backplate, with AC Power (Wavetronix WX-SSB01-0003).....	1,783.80	160.35	
	34 41 16 00-0044	EA		Vehicle Detector, Power Supply, 24V DC 4 A (Wavetronix WX-CLK-204).....	321.13	24.13	
	34 41 16 00-0045	EA		Vehicle Detector, 4-Channel Contact Matrix Closure, Rack Card (Wavetronix WX-CLK-114).....	454.67	24.13	
	34 41 16 00-0046	EA		4 Channel Din-Rail Contact Closure Module (Wavetronix WX-CLK-104).....	531.96	48.25	
	34 41 16 00-0047	EA		Detection System, Vehicle, Four Sensor Preamsembled Backplate, With AC Power, Wavetronix Smartsensor (Wavetronix WX-SS-B01-0005).....	2,256.33	48.25	
	34 41 16 00-0048	EA		50' Wavetronix Wiring Whip (Wavetronix WX-SS-708-060).....	320.69	160.35	
	34 41 16 00-0049	EA		60', 6-Conductor Power And Communication Cable With Connector (Wavetronix WX-SS-704-060).....	341.44	40.08	
	34 41 16 00-0050	EA		900 MHz 5 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0119).....	304.30	53.44	
	34 41 16 00-0051	EA		900 MHz 9 dBi Yagi Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0120).....	199.80	53.44	
	34 41 16 00-0052	EA		Wavetronix Click 201 AC To DC Power Converter (Wavetronix WX-CLK-201).....	205.01	24.13	
	34 41 16 00-0053	EA		24V DC 2 A, Wavetronix Smartsensor (Wavetronix WX-CLK-202).....	245.65	24.13	
	34 41 16 00-0054	EA		Coax Surge N-Type, Wavetronix SmartSensor (Wavetronix WX-CLK-250).....	117.92	24.13	
	34 41 16 00-0055	EA		Power, RS232/RS485 Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-200).....	326.94	24.13	
	34 41 16 00-0056	EA		Two Sensor Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-222).....	367.58	24.13	
	34 41 16 00-0057	EA		RS232 to RS485 Converter, Wavetronix SmartSensor (Wavetronix WX-CLK-304).....	454.67	24.13	
	34 41 16 00-0058	EA		Wavetronix Click 301 Serial To Ethernet Converter (Wavetronix CLK-301).....	48.25	24.13	
	34 41 16 00-0059	EA		Sensor Mount, Heavy Duty, 6 inch, 2 Axis Aluminum Bracket (Wavetronix WX-SS-611).....	310.11	53.44	
	34 41 16 00-0060	MLF		LF, UV Resistant Polyethylene Jacketed Cable (Times Microwave Systems LMR-400).....	2,159.54	529.34	
	34 41 16 00-0061	EA		N-Male (Plug) Clamp Connector (Times Microwave Systems TC-400-NMC).....	41.72	14.48	
	34 41 16 00-0062	EA		Spectra IV SE Back Box, Heavy-Duty, Pendant Mount (Pelco BB4HD-PG-E).....	606.18	57.90	
	34 41 16 00-0063	EA		Spectra III Clear Pendant Lower Dome, Heavy Duty (Pelco Id53hdpb-1).....	596.40	72.38	
	34 41 16 00-0064	EA		24" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2000).....	184.77	24.13	
	34 41 16 00-0065	EA		10" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2010).....	132.93	24.13	
	34 41 16 00-0066	EA		24 VAC, Remote Data Port (Pelco IPS-RDPE-2).....	272.30	24.13	
	34 41 16 00-0067	EA		Spectra IV Remote Monitor Interface Cable (Pelco IPS-CABLE).....	136.44	24.13	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0068 EA 120 Volt AC, 12.5 Watt, 12 Volt DC, 600 mA, External Plug In Power Supply (Triad Magnetics WDU12-600)	61.46	24.13
34 41 16 00-0069 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-0009).....	444.87	48.25
Note: Input/Output for sign peripherals.		
34 41 16 00-0070 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-4009).....	444.87	48.25
Note: Input/Output for sign peripherals.		
34 41 16 00-0071 EA Control Area Network Distribution Board (Daktronics 0P-1248-0005)	822.26	48.25
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0072 EA Control Area Network Distribution Board (Daktronics 0P-1248-0011)	822.26	48.25
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0073 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0019).....	293.91	48.25
Note: Measures temperature and detects light and reports to CAN Dist Board.		
34 41 16 00-0074 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0015)	410.03	48.25
Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0075 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0021)	410.03	48.25
Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0076 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0003).....	340.36	48.25
Note: Measures temperature and detects light and reports to CAN Dist board.		
34 41 16 00-0077 EA Controller, VFC-3000 Field Controller NTCIPv1 (Daktronics 0A-1248-0016)	5,611.38	193.00
Note: The "brains" of the sign. Receives information from NTCIP central software and reports status and diagnostic information.		
34 41 16 00-0078 EA DC/DC, Direct Current to Direct Current Converter (Daktronics 0P-1247-0025)	245.65	24.13
Note: Takes 24VDC input from two power supplies and outputs 9VDC for CAN Dist Board, providing power redundancy.		
34 41 16 00-0079 EA Driver (Daktronics 0P-1100-0026)	460.39	38.60
Note: Driver takes data packets from Control Area Network to determine what pixels (LED clusters) are ON and which are OFF.		
34 41 16 00-0080 EA External Temp Sensor (Daktronics 0P-1100-0014)	408.14	38.60
Note: Sensor that measures ambient temperature.		
34 41 16 00-0081 EA Internal Temp Sensor (Daktronics 0P-1100-0038).....	454.59	38.60
Note: Sensor that measures sign internal temperature.		
34 41 16 00-0082 EA Light Level Detector (Daktronics 0P-1151-0002)	280.41	38.60
Note: The values from the light sensors are used by the sign controller to determine the appropriate sign brightness.		
34 41 16 00-0083 EA Module (Daktronics 0A-1253-0608)	822.26	48.25
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0084 EA Module (Daktronics 0A-1253-3018)	1,025.47	48.25
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0085 EA Module (Daktronics 0A-1266-5002)	909.35	48.25
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0086 EA Module (Daktronics 0A-1332-6252)	1,257.71	48.25
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0087 EA Module (Daktronics 0A-1332-6455)	1,025.47	48.25
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0088 EA Module (Daktronics 0A-1332-6654)	1,025.47	48.25
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0089 EA Module (Daktronics 0P-1332-3015)	560.99	48.25
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0090 EA Module (Daktronics 0P-1332-4116)	560.99	48.25
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0091 EA Module (Daktronics 0P-1332-5031)	560.99	48.25
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0092 EA Module (Daktronics 0P-1332-5017)	560.99	48.25
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0093 EA Module Without Pan (Daktronics 0A-1253-0603).....	822.26	48.25
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0094 EA Module Without Pan (Daktronics 0A-1253-1605).....	822.26	48.25
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0095 EA Module Without Pan (Daktronics 0A-1254-1601).....	822.26	48.25
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0096 EA Pixel Strip (Daktronics 0P-1100-0016).....	299.72	48.25
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0097 EA Pixel Strip (Daktronics 0P-1100-0029).....	346.17	48.25
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0098 EA Power Supply (Daktronics A-1593).....	967.41	48.25
Note: Receives 120VAC input and outputs appropriate VDC for modules.		
34 41 16 00-0099 EA Power Supply (Daktronics A-1648).....	967.41	48.25
Note: Receives 120VAC input and outputs appropriate VDC for modules.		
34 41 16 00-0100 EA Power Supply (Daktronics A-2307).....	386.81	48.25
Note: Receives 120VAC input and outputs appropriate VDC for modules.		
34 41 16 00-0101 EA Surge Suppressor (Daktronics A-1129)	162.41	28.95
Note: Receives 120VAC input and outputs appropriate VDC for modules.		
34 41 16 00-0102 EA Surge Suppressor (Daktronics A-1412)	319.17	28.95
Note: Receives 120VAC input and outputs appropriate VDC for modules.		
34 41 16 00-0103 EA Surge Suppressor (Daktronics A-1772)	319.17	28.95
Note: Receives 120VAC input and outputs appropriate VDC for modules.		
34 41 16 00-0104 EA Surge Suppressor (Daktronics A-2139)	464.32	28.95
Note: Receives 120VAC input and outputs appropriate VDC for modules.		
34 41 16 00-0105 EA VCB, Vanguard Control Board (Daktronics 0P-1248-0022)	787.42	48.25
Note: Receives high speed serial communication over fiber or CAT5 from VFC-3000 and reports sign status and peripheral diagnostics.		
34 41 16 00-0106 EA VMS I/O, Variable Message Sign Input/Output (Daktronics 0P-1194-0001)	1,054.50	48.25
Note: Input/Output board for sign peripherals.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0107 EA Power Supply Assembly (Daktronics A-1856R).....	706.14	48.25
34 41 16 00-0108 EA Power Supply Isolation Board (Daktronics 0P-1447-2000).....	473.90	48.25
34 41 16 00-0109 EA Ventilation/Circulation Fan (Daktronics B-1075).....	195.21	48.25
34 41 16 00-0110 EA VMS Controller (V2) (Daktronics 0A-1248-0028).....	5,611.38	193.00
34 41 16 00-0111 EA Photo/Temp Sensor (Daktronics 0P-1247-0015).....	410.03	48.25
34 41 16 00-0112 EA Defog Fan (Daktronics B-1053).....	77.28	24.13
34 41 16 00-0113 EA Defog Heater (Daktronics A-1792).....	94.70	24.13
34 41 16 00-0114 EA Display Card 1500, 15" Clear (Ver-Mac PB-AFF-06023A-03 PF).....	531.96	48.25
34 41 16 00-0115 EA Display Card 1500, 30" Amber (Ver-Mac PB-AFF-06023-01 PF).....	531.96	48.25
34 41 16 00-0116 EA 1-Port Decoder With H.264 And High-Definition Technology (Verint S1801E-R).....	684.83	48.32
34 41 16 00-0117 EA 1-Port Video Encoder Featuring H.264 Technology With One Bi-directional Audio Channel And 12V DC Universal Power Supply (Verint S1801E).....	684.83	48.32
34 41 16 00-0118 EA 16-Port Video Encoder Featuring H.264 Technology (Verint S1816E).....	3,581.28	48.32
34 41 16 00-0119 EA Encoder H.264 Compact, Hiperfmc (Verint S1802E).....	876.60	48.32
34 41 16 00-0120 EA 110 VAC To 12 VDC At 45W Transformer (Verint PS1261).....	129.61	24.13
34 41 16 00-0121 EA 1-Channel Encoder, H.264 Dual-Streaming, SD Card Slot (Bosch VIP-X1XF-E).....	432.79	48.32
34 41 16 00-0122 EA Single/Quad-Stream Decoder (Bosch VIP-XD).....	1,084.19	48.32
34 41 16 00-0123 EA 1-Output, Outdoor-Rated CCTV Power Supply Unit, 24/26/28 VAC (Pelco WCS1-4).....	246.79	48.25
34 41 16 00-0124 EA 4-Outputs, Outdoor-Rated CCTV Power Supply With Circuit Breaker, 24/28 VAC (Pelco WCS4-20B).....	553.46	48.25
34 41 16 00-0125 EA 12.5KVA, 12 Volt, 75Ah, UPS Battery (UPG UB12750).....	167.96	12.08
34 41 16 00-0126 EA Managed Ethernet Switch with 4 10/100TX Ports + 4 100FX Fiber Ports (EtherWAN EX71440-B0B).....	2,094.40	96.51
34 41 16 00-0127 EA Power Supply, Hardened, External 100-240 VAC Input; TS2 rated; 12VDC Output Power (EtherWAN 41-136046-1).....	140.41	24.13
34 41 16 00-0128 EA 4kVA / 3.6kW Split-Phase Power Module (Eaton 9PXMSPPM).....	1,878.79	48.25
34 41 16 00-0129 EA 30 Amp, 600 Volt, 3-Pole, Fusible, NEMA 3R Rainproof, Safety Switch (Square D H361RB).....	637.03	125.45
34 41 16 00-0130 EA 30 Amp, 600 Volt, LKS Fuse (Eaton Bussmann LKS-30).....	18.69	7.72
34 41 16 00-0131 EA 60 Amp, 600 Volt, 3-Pole, Fusible, Heavy Duty, Safety Switch (Square D H362DS).....	1,570.75	96.51
34 41 16 00-0132 EA 60 Amp, 600 Volt, Dual Element, Time-Delay Fuse (Eaton Bussmann FRS-R-60).....	36.33	7.72
34 41 16 00-0133 EA 50 Mbps, MIMO 2x2, 15 dBi Integrated Antenna (Proxim Wireless TSUNAMI QB-820).....	1,372.99	53.44
34 41 16 00-0134 EA Singlemode Loaded Fiber Adapter Panel, 6 Simplex SC/UPC Adapters (Multi-Link 10-4810).....	94.14	36.67
34 41 16 00-0135 EA 12" x 6" x 5-1/2", 2 Panel, 2 Splice Dual Security Door, Compact Wall Mount Fiber Distribution Unit (MultiLink 10-4469).....	238.84	48.25
34 41 16 00-0136 EA Single AC Inlet, 8 Nema 5-15 Outlets, Built-in AC Current Drawing Sensing Module (Synaccess NP-0801DT).....	384.50	12.56
34 41 16 00-0137 EA Aggregated TRMS AC Current Sensing, One Readout For All Outlets (Synaccess NP-0801DT(H)).....	413.87	12.56
34 41 16 00-0138 EA 550W, 120VAC, Fan Heater With Adjustable Thermostat, 32-140 Degree Fahrenheit (Stego CR-027).....	226.90	19.30
34 41 16 00-0139 EA 10/100M Switch, 4 x 1G Combo, LAN Base (Cisco IE-4000-4TC4G-E).....	2,715.43	115.80
34 41 16 00-0140 EA 12 Port, 2 Panel, Wall Mount, Compact Fiber Distribution Unit (MultiLink FWM012XLC).....	108.53	22.19
34 41 16 00-0141 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel (MultiLink MSC-06-SM-C-BLK).....	27.25	4.83
34 41 16 00-0142 EA 170 Watt AC To DC, Industrial Ethernet Family Power Supply (Cisco PWR-IE170W-PC-AC).....	1,677.74	48.25
34 41 16 00-0143 EA 12 Port, Industrial Ethernet Layer 3 Switch Installed In Transportation Control Equipment (Cisco IE-4000-4GC4GP4G-E).....	4,999.99	96.51
34 41 16 00-0144 EA 2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line Uninterruptible Power Supply (UPS) (Xtreme Power P90-3000).....	2,048.11	159.23
34 41 16 00-0145 EA 100 Amp, 16 Circuit, Main Lug Load Center Panelboard, 8-1 AWG, 120/240 Volt, Single Phase (Square D QO816L100DS).....	601.68	275.99
34 41 16 00-0146 EA 70 Amp, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase (Square D QO24L70S).....	419.88	193.00
34 41 16 00-0147 EA 60 Amp, 120/240 Volt, 2 Pole Common Trip Miniature Circuit Breaker, Plug On Mounting (Square D QO260).....	80.48	26.06
34 41 16 00-0148 EA 15 Amp, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QOT1515).....	59.49	17.37
34 41 16 00-0149 EA 15 Amp, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	48.98	17.37
34 41 16 00-0150 EA 20 Amp, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	48.98	17.37
34 41 16 00-0151 EA One Output Outdoor-rated CCTV Power Supply Unit, 24/26/28 Volt AC @ 4 Amp Total Supply Current, Fuse Protected Output, UL Listed (Pelco WCS1-4).....	246.79	48.25
34 41 16 00-0152 EA DIN Rail Mount, Switching Power Supply (TKH Security PSR12DC).....	192.23	24.16
34 41 16 00-0153 EA H.264 Multi-codec Video Encoder With Audio, Data And CC's (TKH Security C-60-E-MC).....	1,693.43	24.16
34 41 16 00-0154 EA Expansion Power Module For IE-3000-4TC And IE-3000-8TC (Cisco PWR-IE50W-AC-IEC).....	331.89	12.56
34 41 16 00-0155 EA Traffic Monitoring System (BlueToad Spectra Cellular/Solar Version).....	6,781.94	160.35
34 41 16 00-0156 EA Ubiquiti Rocket M9 Wireless Access Point (ROCKETM9).....	284.19	53.44

34 70 Transportation Construction And Equipment ⁽³⁴⁾

34 71 Roadway Construction ^(34 70)

34 71 13 Vehicle Barriers ^(34 71)

34 71 13 13 Vehicle Median Barriers ^(34 71 13)

34 71 13 13-0001 Concrete Median Barrier ^(34 71 13 13)

34 71 13 13-0002 LF Median Barrier, Precast, 42" High Single Face.....	58.95	3.31
34 71 13 13-0003 LF Median Barrier, Precast, 32" High, 2' Wide Base, Double Face.....	82.52	3.31
34 71 13 13-0004 LF Median Barrier, Precast, 42" High, 2' Wide Base, Double Face.....	107.52	3.31
34 71 13 13-0005 LF Median Barrier, Cast In Place With Steel Forms.....	41.18	5.27
34 71 13 13-0006 LF Median Barrier, Slipformed Concrete.....	33.28	2.65

34 71 13 16 Vehicle Crash Barriers ^(34 71 13)

34 71 13 16-0001 Impact Barrier, Non-Redirective ^(34 71 13 16)

34 71 13 16-0002 Sand Barrel Impact Attenuator ^(34 71 13 16-0001)

Note: Includes containers, inserts, and lid. Excludes sand.

34 Transportation**34 70 Transportation Construction And Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 16-0003 EA 200, 400 Or 700 LB Sand Barrel..... Note: Includes containers, inserts, and lid.	623.90	40.38
34 71 13 16-0004 EA 1400 LB Sand Barrel..... Note: Includes containers, inserts, and lid.	576.44	47.40
34 71 13 16-0005 EA 2100 LB Sand Barrel..... Note: Includes containers, inserts, and lid.	620.26	54.42
34 71 13 16-0006 Sand For Sand Barrel Impact Attenuator (34 71 13 16-0001)		
34 71 13 16-0007 LB Sand for Sand Barrels.....	0.08	
34 71 13 26 Vehicle Guide Rails (34 71 13)		
34 71 13 26-0001 Mobilize Guide Rail Crew (34 71 13 26)		
34 71 13 26-0002 EA Mobilize Guide Rail Crew..... Note: Excludes equipment mobilization.	1,020.96	
34 71 13 26-0003 Corrugated Beam Guide Rail (34 71 13 26)		
34 71 13 26-0004 Corrugated Beam Guide Railing (34 71 13 26-0003)		
34 71 13 26-0005 Corrugated Beam Guide Railing, Straight Sections (34 71 13 26-0004) Note: Add additional length for back-up sections.		
34 71 13 26-0006 LF Corrugated Beam Guide Railing	9.73	1.83
34 71 13 26-0007 LF Corrugated Beam Guide Railing (Rustic).....	10.40	1.83
34 71 13 26-0008 Corrugated Beam Guide Railing, Shop Curved (34 71 13 26-0004) Note: Add additional length for back-up sections.		
34 71 13 26-0009 LF Shop Curved Corrugated Beam Guide Railing	12.37	1.83
34 71 13 26-0010 LF Shop Curved Corrugated Beam Guide Railing (Rustic).....	13.30	1.83
34 71 13 26-0011 LF Shop Curved Corrugated Beam Guide Railing End	30.04	1.83
34 71 13 26-0012 LF Shop Curved Corrugated Beam Guide Railing (Rustic) End..... Note: Treatment for mall barriers driveways, walkways, special end, etc.	32.68	1.83
34 71 13 26-0013 Corrugated Beam Guide Railing, Manufactured End Sections (34 71 13 26-0003)		
34 71 13 26-0014 EA Corrugated Beam Guide Railing End Section At Anchor Unit	79.66	24.06
34 71 13 26-0015 EA Corrugated Beam Guide Railing End Section (Rustic) At Anchor Unit.....	83.27	24.06
34 71 13 26-0016 EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section	101.27	24.06
34 71 13 26-0017 EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section (Rustic).....	104.87	24.06
34 71 13 26-0018 EA Corrugated Beam Guide Railing 225 Degree End Section	101.27	24.06
34 71 13 26-0019 EA Corrugated Beam Guide Railing 225 Degree End Section (Rustic).....	104.87	24.06
34 71 13 26-0020 Corrugated Beam Guide Rail End Terminal Systems (34 71 13 26-0003) Note: Excludes post. As manufactured and distributed by R. G. Steel Corp.		
34 71 13 26-0021 EA Regent Flared End Terminal Head With Bracket, Type B & C.....	2,267.06	147.62
34 71 13 26-0022 EA Fleat Flared End Terminal Head With Bracket.....	1,907.02	147.62
34 71 13 26-0023 EA SKT 350 Tangent End Terminal Head With Bracket.....	2,267.06	147.62
34 71 13 26-0024 EA 12'-6" Corrugated Beam Pre-drilled #1 Panel	362.81	69.59
34 71 13 26-0025 EA Terminal Support System, Type SFT.....	658.82	186.08
34 71 13 26-0026 EA Terminal Support System, Type ET	3,024.96	526.64
34 71 13 26-0027 EA Terminal Support System, Type SRT	3,257.50	526.64
34 71 13 26-0028 Corrugated Beam Guide Rail Posts (34 71 13 26-0003) Note: Includes mounting hardware.		
34 71 13 26-0029 EA Standard Post For Corrugated Beam Guide Rail..... For Installation Without Soil Plate, Deduct -5.00 For Installation In Rock, Add 3.25	73.86	12.19
34 71 13 26-0030 EA Standard Post For (Rustic) Corrugated Beam Guide Rail..... For Installation Without Soil Plate, Deduct -5.00 For Installation In Rock, Add 3.25	77.46	12.19
34 71 13 26-0031 EA Extra Long Post for Corrugated Beam Guide Rail	81.06	12.19
34 71 13 26-0032 EA Extra Long Post (Rustic) for Corrugated Beam Guide Rail	84.66	12.19
34 71 13 26-0033 EA 6B8-1/2" or Mall Barrier Post for Corrugated Beam Guide Rail	73.86	12.19
34 71 13 26-0034 EA Post Struts for Corrugated Beam Guide Rail Mall Barrier Post..... For Installation In Rock, Add 3.25	102.66	12.19
34 71 13 26-0035 Heavy Post Blocked Out Corrugated Beam Guide Rail Posts (34 71 13 26-0003) Note: Includes mounting hardware. Excludes triangular mounting brackets.		
34 71 13 26-0036 EA Standard Post For Heavy Post Blocked Out Corrugated Beam Guide	73.86	12.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0037 EA Standard Rustic Post For Heavy Post Blocked Out Corrugated Beam Guide	77.46	12.19
34 71 13 26-0038 EA Extra Long Post for Heavy Post Blocked Out Corrugated Beam Guide.....	81.06	12.19
34 71 13 26-0039 EA Extra Long Post (Rustic) For heavy post blocked out corrugated beam guide rail.....	84.66	12.19
Note: For heavy post blocked out corrugated beam guide (rustic)		
34 71 13 26-0040 EA Type A Post 1630mm Post	72.06	12.19
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0041 EA Type A Post 1630mm Post (Rustic).....	75.66	12.19
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0042 EA Type B Post 1460mm	68.46	12.19
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0043 EA Type B Post 1460mm (Rustic).....	72.06	12.19
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0044 EA Type C Post 1290mm	64.86	12.19
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0045 EA Type C Post 1290mm (Rustic).....	68.46	12.19
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0046 EA Breakaway Wood Or Steel Post In Steel Foundation Tube	254.45	12.19
34 71 13 26-0047 EA Wood, Metal, Plastic Or Composite Offset Block Or Beam	34.25	12.19
Note: For heavy post blocked out corrugated beam guide rail.		
34 71 13 26-0048	Corrugated Beam Guide Rail Accessories (34 71 13 26-0003)	
34 71 13 26-0049 EA Triangular Mounting Brackets (Galvanized Or Rustic) For All Post Types A, B And C.....	72.46	27.35
34 71 13 26-0050	Corrugated Beam Guide Rail Repair for Existing Guide Rail (34 71 13 26-0003)	
Note: Includes associated hardware.		
34 71 13 26-0051 LF Removal And Storage Of Corrugated Beam Guide Railing And Post.....	10.69	
34 71 13 26-0052 EA Install Stored Post For Corrugated Beam Guide Rail	36.46	
34 71 13 26-0053 LF Install Stored Corrugated Beam Guide Railing And Post.....	6.20	
34 71 13 26-0054	Corrugated Thrie Beam Guide Railing (34 71 13 26-0003)	
34 71 13 26-0055	Corrugated Thrie Beam Guide Railing. Straight Sections (34 71 13 26-0054)	
Note: Add additional length for back-up sections.		
34 71 13 26-0056 LF Corrugated Thrie Beam Guide Railing.....	21.44	2.30
34 71 13 26-0057 LF Corrugated Thrie Beam Guide Railing (Rustic).....	22.54	2.30
34 71 13 26-0058	Corrugated Thrie Beam Guide Railing. Shop Curved (34 71 13 26-0054)	
Note: Add additional length for back-up sections.		
34 71 13 26-0059 LF Shop Curved Corrugated Thrie Beam Guide Railing	25.83	2.30
34 71 13 26-0060 LF Shop Curved Corrugated Thrie Beam Guide Railing (Rustic).....	26.93	2.30
34 71 13 26-0061	Corrugated Thrie Beam Guide Rail Posts (34 71 13 26-0054)	
Note: Includes hardware for mounting.		
34 71 13 26-0062 EA Standard Post For Corrugated Thrie Beam Guide Rail.....	82.27	2.30
<i>For Installation Without Soil Plate, Deduct</i>		
<i>For 32" Soil Plate, Add</i>		
	-5.00	
	7.00	
34 71 13 26-0063 EA Standard Post (Rustic) For Corrugated Thrie Beam Guide Rail	85.87	2.30
<i>For Installation Without Soil Plate, Deduct</i>		
<i>For 32" Soil Plate, Add</i>		
	-5.00	
	7.00	
34 71 13 26-0064	Timber Guide Rails (34 71 13 26)	
Note: Includes drilling and fasteners. Excludes excavation, auguring and concrete.		
34 71 13 26-0065	Timber Guide Rail Posts (34 71 13 26-0064)	
34 71 13 26-0066 EA 6" x 8" Timber Guide Rail Post	68.43	9.11
34 71 13 26-0067 EA 6" x 9" Timber Guide Rail Post	77.51	9.11
34 71 13 26-0068 EA 10" x 10" Timber Guide Rail Post	148.69	9.11
34 71 13 26-0069 EA 10" x 12" Timber Guide Rail Post	157.17	9.11
34 71 13 26-0070 EA 12" x 12" Timber Guide Rail Post	181.37	9.11
34 71 13 26-0071	Timber Guide Rails (34 71 13 26-0064)	
Note: Excludes posts, spacer blocks and steel backup plates.		
34 71 13 26-0072 LF 4" x 9" Timber Guide Rail.....	8.48	1.10
34 71 13 26-0073 LF 6" x 10" Timber Guide Rail.....	11.75	1.10
34 71 13 26-0074 LF 6" x 12" Timber Guide Rail.....	13.66	1.10
34 71 13 26-0075	Spacer Blocks For Timber Guide Rails (34 71 13 26-0064)	
34 71 13 26-0076 EA 4" x 9" Spacer Block For Timber Guide Rails	11.04	1.46
34 71 13 26-0077 EA 6" x 8" Spacer Block For Timber Guide Rails	12.61	1.46
34 71 13 26-0078 EA 8" x 8" Spacer Block For Timber Guide Rails	14.61	1.46
34 71 13 26-0079	Weathering Steel Backup Plates For Timber Guide Rails (34 71 13 26-0064)	
34 71 13 26-0080 LF 6" High, Weathering Steel Backup Plate For Timber Guide Rails.....	14.92	0.91

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34 71	Roadway Construction



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

34 71 13 26-0081	Weathering Steel Splice And Bearing Plates For Timber Guide Rails (34 71 13 26-0084)		
34 71 13 26-0082	EA Weathering Steel Splice Plate For Timber Guide Rails.....	106.43	12.77
34 71 13 26-0083	EA Weathering Steel Bearing Termination Plate For Timber Guide Rails	67.22	9.11
34 71 13 26-0084	Cable Guide Rail (34 71 13 26)		
34 71 13 26-0085	Cable Guide Rail (34 71 13 26-0084)		
34 71 13 26-0086	LF Cable (Each Cable).....	5.70	1.97
	Note: Includes tensioning. Excludes splices.		
34 71 13 26-0087	EA Cable Splice With Wedges	126.25	13.67
34 71 13 26-0088	Cable Guide Rail Posts (34 71 13 26-0084)		
	Note: Includes hardware for cable mounting.		
34 71 13 26-0089	EA Standard Post for Cable Guide Rail	108.19	40.64
	For Installation Without Soil Plate, Deduct	-5.00	
	For Installation In Rock, Add	10.84	
34 71 13 26-0090	EA Standard Post (Rustic) for Cable Guide Rail	111.79	40.64
	For Installation Without Soil Plate, Deduct	-5.00	
	For Installation In Rock, Add	10.84	
34 71 13 26-0091	EA Extra Long Post for Cable Guide Rail	111.79	40.64
	For Installation Without Soil Plate, Deduct	-5.00	
	For Installation In Rock, Add	10.84	
34 71 13 26-0092	EA Extra Long Post (Rustic) for Cable Guide Rail	115.39	40.64
	For Installation Without Soil Plate, Deduct	-5.00	
	For Installation In Rock, Add	10.84	
34 71 13 26-0093	EA Slip Impact Post Top for Anchor Unit	64.87	16.25
34 71 13 26-0094	EA Slip Impact Post Base and Keeper Plate	154.88	16.25
	Note: For anchor unit.		
34 71 13 26-0095	Cable Guide Rail Accessories For Breakaway Anchor Angle Systems (34 71 13 26-0084)		
34 71 13 26-0096	EA Turnbuckle Cable End Assembly For Use With Breakaway Anchors	365.98	182.68
34 71 13 26-0097	EA Turnbuckle Cable End Assembly	84.19	9.13
34 71 13 26-0098	EA Spring Cable End Assembly (Compensating Device) For Use With Breakaway Anchors	258.08	4.54
34 71 13 26-0099	EA Spring Cable End Assembly (Compensating Device) Without Turnbuckle	265.28	4.54
34 71 13 26-0100	EA Breakaway Anchor Angle	105.79	9.13
34 71 13 26-0101	EA Standard End Post Cap Assembly	49.25	4.54
34 71 13 26-0102	EA Driveway End Post Cap Assembly	42.05	4.54
34 71 13 26-0103	EA End Post Ground Support Plates	24.05	4.54
34 71 13 26-0104	EA 11" Stud Bolt, Cable Guide Rail	21.35	4.54
34 71 13 26-0105	EA 18" Stud Bolt, Cable Guide Rail	24.95	4.54
34 71 13 26-0106	EA 25" Stud Bolt, Cable Guide Rail	28.55	4.54
34 71 13 26-0107	EA 1-1/4" Diameter Turnbuckle, Cable Guide Rail	228.20	9.13
34 71 13 26-0108	EA 1-1/2" Diameter Turnbuckle, Cable Guide Rail	242.61	9.13
34 71 13 26-0109	EA 5/8" Diameter Turnbuckle With 12" Take-up And Shackle Ends, Cable Guide Rail	163.40	9.13
34 71 13 26-0110	EA 5/8" Eye Bolt 18" Long, Cable Guide Rail	99.66	4.54
34 71 13 26-0111	EA 3/4" Eye Bolt 8'-6" Long, Cable Guide Rail	105.79	9.13
34 71 13 26-0112	EA 1-5/8" Anchor Rod 10' Long With Plate, Cable Guide Rail	115.45	13.67
34 71 13 26-0113	Cable Guide Rail Accessories For Slip Impact Post Systems (34 71 13 26-0084)		
34 71 13 26-0114	EA Turnbuckle Cable End Assembly	187.32	13.57
	Note: For use with slip impact post.		
34 71 13 26-0115	EA Spring Cable End Assembly (Compensating Device)	360.14	13.57
	Note: For use with slip impact post.		
34 71 13 26-0116	EA Anchor Angle For Slip Impact Post System	111.71	13.57
34 71 13 26-0117	EA Cable End Assembly Rod	93.71	13.57
	Note: Includes cable end, threaded rod and keeper to anchor angle.		
34 71 13 26-0118	Cable Guide Rail Repair For Existing Guide Rail (34 71 13 26-0084)		
	Note: All tasks include associated hardware.		
34 71 13 26-0119	LF Retention Existing Cable (Each Cable)	1.22	
34 71 13 26-0120	LF Removal And Storage Of Cable Guide Railing	7.34	
34 71 13 26-0121	EA Install Stored Post For Cable Guide Railing	54.18	
34 71 13 26-0122	LF Install Stored Cable, (Each Cable)	3.25	
	Note: Includes retensioning. Excludes splices.		
34 71 13 26-0123	6" x 6" Box Beam Guide Rail (34 71 13 26)		
34 71 13 26-0124	Box Beam Guide Rail, 6" x 6" (34 71 13 26-0123)		
34 71 13 26-0125	Straight Sections, Box Beam Guide Rail (34 71 13 26-0124)		
34 71 13 26-0126	LF Box Beam Guide Railing 6" x 6" x 3/16" Galvanized	25.56	2.30
	Note: Excludes splices.		
	For Flush Mounting Directly To Structure, Add	1.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0127 LF Box Beam Guide Railing 6" x 6" x 3/16" (Rustic) Note: Excludes splices. <i>For Flush Mounting Directly To Structure, Add</i>	28.85 1.83	2.30
34 71 13 26-0128 Shop Curved, Box Beam Guide Rail (34 71 13 26-0124)		
34 71 13 26-0129 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" Galvanized..... Note: Excludes splices. <i>For Shop Curved At <20' Radius, Add</i> <i>For Flush Mounting Directly To Structure, Add</i>	38.18 2.44 1.83	2.30
34 71 13 26-0130 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" (Rustic) Note: Excludes splices. <i>For Shop Curved At <20' Radius, Add</i> <i>For Flush Mounting Directly To Structure, Add</i>	41.47 2.44 1.83	2.30
34 71 13 26-0131 Box Beam Guide Rail End Treatment Sections (34 71 13 26-0123) Note: Includes rail, end cover plate and hardware only. Excludes posts and splice.		
34 71 13 26-0132 EA Box Beam End Piece Guide Railing Section..... Note: Galvanized excludes splices.	396.50	27.35
34 71 13 26-0133 EA Box Beam End Piece Guide Railing Section (Rustic)..... Note: Excludes splices.	436.10	27.35
34 71 13 26-0134 EA Box Beam Guide Railing End Treatment Section At Driveway, Galvanized Note: Excludes splices.	374.90	27.35
34 71 13 26-0135 EA Box Beam Guide Railing End Treatment Section At Driveway, (Rustic)..... Note: Excludes splices.	389.30	27.35
34 71 13 26-0136 Splices For Box Beam Guide Rail (34 71 13 26-0123)		
34 71 13 26-0137 EA Splice For Box Beam Guide Rail	135.20	40.60
34 71 13 26-0138 EA Splice For Box Beam Guide Rail (Rustic).....	160.40	40.60
34 71 13 26-0139 Box Beam Guide Rail Posts (34 71 13 26-0123) Note: Includes hardware for box beam mounting.		
34 71 13 26-0140 EA Standard Post For Box Beam Guide Rail <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	111.79 -5.00 10.84	40.64
34 71 13 26-0141 EA Standard Post (Rustic) for Box Beam Guide Railing..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	115.39 -5.00 10.84	40.64
34 71 13 26-0142 EA Extra Long Post For Box Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	118.99 -5.00 10.84	40.64
34 71 13 26-0143 EA Extra Long Post (Rustic) For Box Beam Guide Rail <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	122.59 -5.00 10.84	40.64
34 71 13 26-0144 EA Type I End Assembly Post..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	108.19 -5.00 10.84	40.64
34 71 13 26-0145 EA Type I End Assembly Post (Rustic) <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	111.79 -5.00 10.84	40.64
34 71 13 26-0146 EA Type II End Assembly Post..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	104.59 -5.00 10.84	40.64
34 71 13 26-0147 EA Type II End Assembly Post (Rustic) <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	108.19 -5.00 10.84	40.64
34 71 13 26-0148 Box Beam Guide Rail Accessories (34 71 13 26-0123)		
34 71 13 26-0149 EA Box Beam Guide Rail End Cover Plate	54.14	8.20
34 71 13 26-0150 EA Box Beam Guide Rail End Cover Plate (Rustic).....	57.75	8.20
34 71 13 26-0151 Box Beam Guide Railing Repair, And Resetting (34 71 13 26-0123) Note: For existing guide rail.		
34 71 13 26-0152 LF Removal And Storage Of Box Beam Guide Rail And Post	3.60	
34 71 13 26-0153 LF Reset Box Beam Guide Rail	10.51	
34 71 13 26-0154 6" x 8" Box Beam Median Barrier (34 71 13 26)		
34 71 13 26-0155 Box Beam Median Barrier, 6" x 8" (34 71 13 26-0154)		
34 71 13 26-0156 Straight Sections, Box Beam Median Barrier (34 71 13 26-0155)		
34 71 13 26-0157 LF Box Beam Median Barrier Galvanized Excludes Splices..... <i>For Flush Mounting Directly To Structure, Add</i>	45.51 1.83	8.20
34 71 13 26-0158 LF Box Beam Median Barrier (Rustic) Excludes Splices <i>For Flush Mounting Directly To Structure, Add</i>	48.80 1.83	8.20

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0159 Shop Curved, Box Beam Median Barrier (34 71 13 26-0155)		
34 71 13 26-0160 LF Shop Curved Box Beam Median Barrier Galvanized.....	54.16	8.20
Note: Excludes splices.		
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0161 LF Shop Curved Box Beam Median Barrier Rustic.....	64.96	8.20
Note: Excludes splices.		
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0162 Box Beam Median Barrier End Treatment Sections (34 71 13 26-0154)		
Note: Includes rail, end cover plate and hardware. Excludes posts.		
34 71 13 26-0163 EA Box Beam Median Barrier Type A End Treatment Section, Galvanized.....	1,257.00	27.35
Note: Excludes splices and post.		
34 71 13 26-0164 EA Box Beam Median Barrier Type A End Treatment Section (Rustic).....	1,285.80	27.35
Note: Excludes splices and post.		
34 71 13 26-0165 EA Box Beam Median Barrier Type B End Treatment Section, Galvanized.....	1,257.00	27.35
Note: Excludes splices and post.		
34 71 13 26-0166 EA Box Beam Median Barrier Type B End Treatment Section (Rustic).....	1,285.80	27.35
Note: Excludes splices and post.		
34 71 13 26-0167 Splices For Box Beam Median Barrier (34 71 13 26-0154)		
34 71 13 26-0168 EA Splice for Box Beam Median Barrier.....	108.38	21.88
34 71 13 26-0169 EA Splice for Box Beam Median Barrier (Rustic).....	162.38	21.88
34 71 13 26-0170 Box Beam Median Barrier Posts Driven With Soil Plate (34 71 13 26-0154)		
Note: Includes all associated hardware.		
34 71 13 26-0171 EA Standard Post for Box Beam Median Barrier.....	111.79	40.64
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.84	
34 71 13 26-0172 EA Standard Post (Rustic) for Box Beam Median Barrier.....	115.39	40.64
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.84	
34 71 13 26-0173 EA Extra Long Post for Box Beam Median Barrier.....	118.99	40.64
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.84	
34 71 13 26-0174 EA Extra Long Post (Rustic) for Box Beam Median Barrier.....	122.59	40.64
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.84	
34 71 13 26-0175 EA Type B End Treatment or Rub Back Anchor Post for Box Beam.....	104.59	40.64
Note: For median barrier.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.84	
34 71 13 26-0176 EA Type B End Treatment or Rub Back Anchor Post (Rustic).....	104.59	40.64
Note: For box beam median barrier.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.84	
34 71 13 26-0177 EA Type I End Assembly Post for Box Beam Median Barrier to Concrete.....	118.99	40.64
Note: For median barrier transition.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.84	
34 71 13 26-0178 EA Type I End Assembly Post (Rustic) for Box Beam Median Barrier.....	122.59	40.64
Note: For Concrete median barrier transition.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	10.84	
34 71 13 26-0179 Box Beam Median Barrier Accessories (34 71 13 26-0154)		
34 71 13 26-0180 EA Box Beam Median Barrier End Cover Plate.....	74.17	19.25
34 71 13 26-0181 EA Box Beam Median Barrier End Cover Plate (Rustic).....	77.78	19.25
34 71 13 26-0182 Box Beam Median Barrier Repair, And Resetting (34 71 13 26-0154)		
Note: For existing guide rail.		
34 71 13 26-0183 LF Remove and Store Box Beam Median Barrier and Posts.....	3.73	
34 71 13 26-0184 LF Reset Box Beam Median Barrier.....	11.01	
34 71 13 26-0185 Universal Guide Rail Items (34 71 13 26)		
34 71 13 26-0186 Guide Rail Concrete Anchor Units For All Types Of Guide Rail (34 71 13 26-0185)		
Note: For cast in place or precast. Includes excavation, formwork, concrete, reinforcement, anchor rods and/or imbedded plate. Excludes anchor angle. For anchor angles and other terminal connections, use accessories section for respective guide rail type.		
34 71 13 26-0187 CY Guide Rail Concrete Anchor Unit.....	585.39	
For Each Additional Set Of Anchor Rods, Add	38.00	
34 71 13 26-0188 EA Reset Existing Anchorage Unit for All Types of Guide Rail.....	418.19	
Note: Includes excavation and backfill.		
34 71 13 26-0189 EA Removal Of Guide Rail Concrete Anchor Unit.....	445.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0190 Guide Rail Repair For All Types Of Existing Guide Rail <small>(34 71 13 26-0185)</small>		
<i>Note: All tasks include associated hardware.</i>		
34 71 13 26-0191 EA Straighten And Reset Driven Post For Guide Rail	54.18	
34 71 13 26-0192 EA Straighten And Reset Post Mounted On Concrete For Guide Rail	59.36	
<i>Note: With base plate for guide rail. Includes new anchor bolts.</i>		
34 71 13 26-0193 Additional Wood and Steel Posts <small>(34 71 13 26-0185)</small>		
34 71 13 26-0194 LF 4" x 6" Wood Post.....	35.20	13.57
<i>For Installation In Rock, Add</i>		
	3.62	
34 71 13 26-0195 LF 6" x 8" Wood Post.....	40.60	13.57
<i>For Installation In Rock, Add</i>		
	3.62	
34 71 13 26-0196 LF 6" x 7/8" Steel Post Galvanized	28.30	13.57
<i>For Installation In Rock, Add</i>		
	3.62	
34 71 13 26-0197 EA Base Plate With Anchor Bolts For Mounting Post On Concrete.....	226.91	13.57
34 71 13 26-0198 Accessories For All Types of Guide Rail <small>(34 71 13 26-0185)</small>		
34 71 13 26-0199 EA Reflector, Guard Rail	24.66	
34 71 13 26-0200 Resilient Guard Fence And Light Shield <small>(34 71 13 26)</small>		
34 71 13 26-0201 LF Resilient Guard Fence And Light Shield, Up To 6' High	56.58	5.61
34 71 13 26-0202 Individual Concrete Posts <small>(34 71 13 26)</small>		
34 71 13 26-0203 EA 6'-5" Concrete Posts, Round.....	76.94	5.61
34 71 13 26-0204 EA 6'-5" Concrete Posts, Square.....	86.00	6.32
34 71 13 26-0205 EA 6'-5" Concrete Posts, Triangular.....	83.64	6.32
34 71 13 26-0206 Guide Rail Transitions <small>(34 71 13 26)</small>		
34 71 13 26-0207 Transition Box Beam Guide Rail To Corrugated Beam <small>(34 71 13 26-0206)</small>		
34 71 13 26-0208 EA Box Beam To Corrugated Beam Rail Bolted Section.....	459.59	
34 71 13 26-0209 EA Box Beam To Corrugated Beam Rail Bolted Plate	315.58	
<i>Note: For making cable connections.</i>		
34 71 13 26-0210 Transition Box Beam Median Barrier To Corrugated Beam Median <small>(34 71 13 26-0206)</small>		
34 71 13 26-0211 EA Box Beam Median Barrier To Corrugated Beam Bolted Section	466.79	
34 71 13 26-0212 EA Box Beam Median Barrier To Corrugated Beam Harness Plate.....	315.58	
<i>Note: For making cable connections.</i>		
34 71 13 26-0213 Transition Box Beam Guide Rail To Cable Guide Rail <small>(34 71 13 26-0206)</small>		
34 71 13 26-0214 EA Box Beam to Cable Guide Rail U-bolt And Plate	60.35	14.58
34 71 13 26-0215 Transition Box Beam Median Barrier To Concrete Median Barrier <small>(34 71 13 26-0206)</small>		
34 71 13 26-0216 EA Box Beam Median Barrier To Concrete Barrier End Connection.....	603.61	
34 71 13 26-0217 Transition Thrie Beam To Concrete Median Barrier <small>(34 71 13 26-0206)</small>		
34 71 13 26-0218 EA Thrie Beam Terminal Connector At Concrete Median Barrier.....	423.59	
34 71 13 26-0219 EA Thrie Beam Transition Section To Corrugated Beam Guide Rail.....	513.60	
34 71 13 26-0220 Transition Railing (Monterey County) <small>(34 71 13 26)</small>		
<i>Note: Complete with rail, posts, transition and bolts.</i>		
34 71 13 26-0221 EA Transition Railing, Type WB-31 (Monterey County).....	2,804.31	1.83
34 71 16 Impact Attenuating Devices <small>(34 71)</small>		
34 71 16 00-0001 Guard Rail Energy Absorbing Terminals <small>(34 71 16)</small>		
<i>Note: Crushable foam cartridges surrounded by steel guardrail for narrow hazards. QuadGuard System as manufactured by Energy Absorption Systems, Inc.</i>		
34 71 16 00-0002 24" Wide Guard Rail Energy Absorbing Terminals <small>(34 71 16 00-0001)</small>		
34 71 16 00-0003 EA 24" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	24,336.91	2,731.46
34 71 16 00-0004 EA 24" Wide, 5 Cartridge, Bays Energy Absorbing Crash Attenuator	33,698.13	3,641.95
34 71 16 00-0005 EA 24" Wide, 7 Cartridge, Bays Energy Absorbing Crash Attenuator	45,862.87	4,780.06
34 71 16 00-0006 EA 24" Wide, 9 Cartridge, Bays Energy Absorbing Crash Attenuator	51,381.48	5,918.17
34 71 16 00-0007 30" Wide Guard Rail Energy Absorbing Terminals <small>(34 71 16 00-0001)</small>		
34 71 16 00-0008 EA 30" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	26,294.04	3,072.89

34 Transportation**34 70 Transportation Construction And Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 16 00-0009 EA 30" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	36,505.37	4,097.19
34 71 16 00-0010 EA 30" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	49,994.54	5,462.92
34 71 16 00-0011 EA 30" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	57,486.19	6,601.03
34 71 16 00-0012 36" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0013 EA 36" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	28,271.13	3,414.33
34 71 16 00-0014 EA 36" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	39,332.00	4,552.44
34 71 16 00-0015 EA 36" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	53,652.28	6,031.98
34 71 16 00-0016 EA 36" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	63,570.19	7,283.90
34 71 16 00-0017 69" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0018 EA 69" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	30,652.98	3,755.76
34 71 16 00-0019 EA 69" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	42,316.37	5,007.68
34 71 16 00-0020 EA 69" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	57,939.80	6,601.03
34 71 16 00-0021 EA 69" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	68,351.55	7,966.76
34 71 16 00-0022 90" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0023 EA 90" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	33,093.46	4,097.19
34 71 16 00-0024 EA 90" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	45,369.73	5,462.92
34 71 16 00-0025 EA 90" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	62,820.76	7,283.90
34 71 16 00-0026 EA 90" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	73,254.66	8,649.62
34 71 19 Vehicle Delineators (34 71)		
34 71 19 16 Flexible Vehicle Delineators (34 71 19)		
34 71 19 16-0001 EA 2' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	60.63	7.02
34 71 19 16-0002 EA 3' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	61.38	7.02
34 71 19 16-0003 EA 3-1/2' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	62.13	7.02
34 71 19 16-0004 EA 4' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	62.87	7.02
34 80 Bridges (34)		
34 82 Bridge Specialties (34 80)		
34 82 23 Bridge Railing (34 82)		
34 82 23 00-0001 Metal Bridge Railing (34 82 23)		
Note: Includes hardware for bridge rail mounting.		
34 82 23 00-0002 LF 2" x 2" x 1/8" Bridge Railing	34.06	3.12
34 82 23 00-0003 LF 3" x 3" x 5/16" Bridge Railing	59.20	4.87
34 82 23 00-0004 LF 5" x 3" x 1/4" Bridge Railing	75.67	7.13
34 82 23 00-0005 LF 6" x 6" x 3/16" Bridge Railing	99.98	8.98
34 82 23 00-0006 LF 5" Outside Diameter x 1/4" Bridge Railing	80.77	6.92
34 82 23 00-0007 Bridge Post (34 82 23)		
Note: Includes hardware for bridge post mounting.		
34 82 23 00-0008 EA 6" x 9" x 5'-6" Bridge Post.....	137.53	38.80
34 82 23 00-0009 EA 6" x 9" x 7' Bridge Post.....	172.62	41.22
34 82 23 00-0010 EA Two Rail With Base Plate Bridge Post Assembly.....	402.44	72.75
34 82 23 00-0011 EA Two Rail With Curb Bridge Post Assembly	496.74	77.59
34 82 23 00-0012 EA Two Rail (Curbless) Bridge Post Assembly	451.79	77.59
34 82 23 00-0013 EA Two Rail With Optional Handrail Bridge Post Assembly	547.48	77.59
34 82 23 00-0014 EA Three Rail With Base Plate Bridge Post Assembly	416.70	77.59
34 82 23 00-0015 EA Three Rail With Curb Bridge Post Assembly	573.30	80.02
34 82 23 00-0016 EA Three Rail (Curbless) Bridge Post Assembly	561.45	80.02
34 82 23 00-0017 EA Three Rail With Optional Handrail Bridge Post Assembly.....	696.01	80.02
34 82 23 00-0018 EA Four Rail (Curbless) With Base Plate Bridge Post.....	464.21	82.44
34 82 23 00-0019 EA Four Rail With Base Plate (Sidewalk Type) Bridge Post	464.34	82.44
34 82 23 00-0020 EA Four Rail With Curb Bridge Post Assembly	704.84	82.44
34 82 23 00-0021 EA Four Rail (Curbless) Bridge Post Assembly	724.38	82.44
34 82 23 00-0022 EA Five Rail With Base Plate (Curbless) Bridge Post Assembly	517.34	87.30
34 82 23 00-0023 Bridge Railing Splices (34 82 23)		
Note: Includes hardware for splices.		
34 82 23 00-0024 EA 5" Outside Diameter Bridge Railing Splice.....	218.29	18.74
34 82 23 00-0025 EA 5" x 3" Bridge Railing Splice.....	128.56	16.40
34 82 23 00-0026 EA 3" x 3" Bridge Railing Splice.....	78.71	11.72
34 82 23 00-0027 EA 2" x 2" Bridge Railing Splice.....	39.48	8.43
34 82 23 00-0028 EA 5" x 5" x 3' Expansion Splice Tube.....	164.80	18.13
34 82 23 00-0029 EA 4" x 2" x 3' Expansion Splice Bar	175.78	18.13
34 82 23 00-0030 EA 5" x 5" x 2' Fixed Splice Tube	150.35	18.13
34 82 23 00-0031 EA 4" x 2" x 2' Fixed Splice Bar	154.32	18.13
34 82 23 00-0032 EA 6" x 6" x 3/16" Box x 9' Flare Tube	222.51	24.48



Transportation	34	34
Bridges	34 80	
Bridge Specialties	34 82	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 82 23 00-0033 Transition For Bridge Railing <small>(34 82 23)</small>		
Note: Includes hardware for transition for bridge railing.		
34 82 23 00-0034 EA Two Rail Box Beam To Bridge Transition With Splices	906.91	96.99
34 82 23 00-0035 EA Three Rail Box Beam To Bridge Transition With Splices	965.38	101.84
34 82 23 00-0036 EA Four Rail Box Beam To Bridge Transition With Splices	1,127.91	106.69
34 82 23 00-0037 EA 6" x 6" x 16-1/2' Bottom Transition Tube.....	381.77	48.50
34 82 23 00-0038 EA 6" x 6" x 22' Bottom Transition Tube.....	471.80	53.34
34 82 23 00-0039 EA 8" x 6" x 16-1/2' Bottom Transition Tube.....	446.43	48.50
34 82 23 00-0040 EA 6" x 6" x 16-1/2' Top Transition Tube.....	391.49	48.50
34 82 23 00-0041 EA 6" x 6" x 21-1/2' Top Transition Tube.....	463.77	53.34
34 82 23 00-0042 EA 8" x 6" x 16-1/2' Top Transition Tube.....	458.49	48.50
34 82 23 00-0043 EA 6" x 6" x 16-1/2' Middle Transition Tube	368.44	48.50
34 82 23 00-0044 EA 8" x 6" x 16-1/2' Middle Transition Tube	452.46	48.50
34 82 23 00-0045 Anchor Plates And End Caps For Bridge Railing <small>(34 82 23)</small>		
34 82 23 00-0046 EA 14" x 14" Bridge Railing Anchor Plate.....	40.51	4.69
34 82 23 00-0047 EA 18" x 22" Deck Anchor Plate.....	245.06	23.43
34 82 23 00-0048 EA 2" x 2" Bridge Railing End Cap	33.07	2.35
34 82 23 00-0049 EA 3" x 3" Bridge Railing End Cap	20.59	2.35
34 82 23 00-0050 EA 5" O.D Bridge Railing End Cap.....	20.44	2.35
34 82 26 Bridge Slope Protection <small>(34 82)</small>		
34 82 26 00-0001 Bridge Slope Protection <small>(34 82 26)</small>		
Note: Solid concrete masonry unit installed in sand bedding.		
34 82 26 00-0002 SF 8" x 16" x 4" Solid Concrete Block, Bridge Slope Protection.....	11.14	4.54
34 82 26 00-0003 SF 8" x 16" x 6" Solid Concrete Block, Bridge Slope Protection.....	13.08	5.00
34 82 26 00-0004 SF 8" x 16" x 8" Solid Concrete Block, Bridge Slope Protection.....	14.36	5.31

END OF SECTION 34

34 Transportation

34 80 Bridges

34 82 Bridge Specialties



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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35 Waterway and Marine Construction

35 05 Common Work Results for Waterway and Marine Construction⁽³⁵⁾

35 05 70 Common Work Results for Dams^(35 05)

35 05 70 00-0001 Rubber Dam Repair^(35 05 70)

35 05 70 00-0002	EA	Class A Rubber Dam Repair (Bullet And Similar Holes).....	26.65
35 05 70 00-0003	SF	Class B Rubber Dam Repair (Minor Surface Rubber Damage).....	52.28
35 05 70 00-0004	SF	Class C Rubber Dam Repair (Major Surface Rubber Damage).....	77.28
35 05 70 00-0005	SF	Class D Rubber Dam Repair (Serious Surface Rubber Damage), Per Layer Of Material	85.75

END OF SECTION 35

35 Waterway and Marine Construction

35 05 Common Work Results for Waterway and Marine Construction

35 05 70 Common Work Results for Dams



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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40 Process Interconnections

40 05 Common Work Results For Process Interconnections ⁽⁴⁰⁾

40 05 19 Ductile Iron Process Pipe ^(40 05)

40 05 19 00-0001 Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Piping ^(40 05 19)

Note: 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be cement lined in accordance with ANSI/AWWA C104/A21.04. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-2059 for bolts, 40 05 19 00-2074 for gaskets.

40 05 19 00-0002 Flanged End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0001)

40 05 19 00-0003 4" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0002)

40 05 19 00-0004	EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	456.80	173.19
	For Class 52 Rating, Deduct	-21.38	
	For Class 54 Rating, Add	14.58	
	For Class 55 Rating, Add	32.41	
40 05 19 00-0005	EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	482.19	176.21
	For Class 52 Rating, Deduct	-23.67	
	For Class 54 Rating, Add	16.14	
	For Class 55 Rating, Add	35.87	
40 05 19 00-0006	EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	507.58	179.24
	For Class 52 Rating, Deduct	-25.96	
	For Class 54 Rating, Add	17.70	
	For Class 55 Rating, Add	39.34	
40 05 19 00-0007	EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	532.97	182.27
	For Class 52 Rating, Deduct	-28.25	
	For Class 54 Rating, Add	19.26	
	For Class 55 Rating, Add	42.81	
40 05 19 00-0008	EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	558.35	185.30
	For Class 52 Rating, Deduct	-30.54	
	For Class 54 Rating, Add	20.82	
	For Class 55 Rating, Add	46.28	
40 05 19 00-0009	EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	583.74	188.33
	For Class 52 Rating, Deduct	-32.82	
	For Class 54 Rating, Add	22.38	
	For Class 55 Rating, Add	49.74	
40 05 19 00-0010	EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	609.13	191.36
	For Class 52 Rating, Deduct	-35.11	
	For Class 54 Rating, Add	23.94	
	For Class 55 Rating, Add	53.21	
40 05 19 00-0011	EA 4" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	634.51	194.39
	For Class 52 Rating, Deduct	-37.40	
	For Class 54 Rating, Add	25.50	
	For Class 55 Rating, Add	56.68	
40 05 19 00-0012	EA 4" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	659.90	197.40
	For Class 52 Rating, Deduct	-39.69	
	For Class 54 Rating, Add	27.06	
	For Class 55 Rating, Add	60.15	
40 05 19 00-0013	EA 4" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	685.29	200.43
	For Class 52 Rating, Deduct	-41.98	
	For Class 54 Rating, Add	28.62	
	For Class 55 Rating, Add	63.61	
40 05 19 00-0014	EA 4" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	710.68	203.46
	For Class 52 Rating, Deduct	-44.26	
	For Class 54 Rating, Add	30.18	
	For Class 55 Rating, Add	67.08	
40 05 19 00-0015	EA 4" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	736.06	206.49
	For Class 52 Rating, Deduct	-46.55	
	For Class 54 Rating, Add	31.74	
	For Class 55 Rating, Add	70.55	
40 05 19 00-0016	EA 4" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	761.46	209.52
	For Class 52 Rating, Deduct	-48.84	
	For Class 54 Rating, Add	33.30	
	For Class 55 Rating, Add	74.01	
40 05 19 00-0017	EA 4" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	786.85	212.55
	For Class 52 Rating, Deduct	-51.13	
	For Class 54 Rating, Add	34.86	
	For Class 55 Rating, Add	77.48	
40 05 19 00-0018	EA 4" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	812.23	215.58
	For Class 52 Rating, Deduct	-53.42	
	For Class 54 Rating, Add	36.42	
	For Class 55 Rating, Add	80.95	
40 05 19 00-0019	EA 4" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	837.62	218.61
	For Class 52 Rating, Deduct	-55.70	
	For Class 54 Rating, Add	37.98	
	For Class 55 Rating, Add	84.42	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0020	EA		4" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	863.01	221.63
			<i>For Class 52 Rating, Deduct</i>	-57.99	
			<i>For Class 54 Rating, Add</i>	39.54	
			<i>For Class 55 Rating, Add</i>	87.88	
40 05 19 00-0021	EA		4" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	888.40	224.66
			<i>For Class 52 Rating, Deduct</i>	-60.28	
			<i>For Class 54 Rating, Add</i>	41.10	
			<i>For Class 55 Rating, Add</i>	91.35	
40 05 19 00-0022	EA		4" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	913.78	227.69
			<i>For Class 52 Rating, Deduct</i>	-62.57	
			<i>For Class 54 Rating, Add</i>	42.66	
			<i>For Class 55 Rating, Add</i>	94.82	
40 05 19 00-0023	EA		4" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	939.17	230.71
			<i>For Class 52 Rating, Deduct</i>	-64.86	
			<i>For Class 54 Rating, Add</i>	44.22	
			<i>For Class 55 Rating, Add</i>	98.29	
40 05 19 00-0024	EA		4" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	964.56	233.74
			<i>For Class 52 Rating, Deduct</i>	-67.14	
			<i>For Class 54 Rating, Add</i>	45.78	
			<i>For Class 55 Rating, Add</i>	101.75	
40 05 19 00-0025	EA		4" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	989.94	236.77
			<i>For Class 52 Rating, Deduct</i>	-69.43	
			<i>For Class 54 Rating, Add</i>	47.34	
			<i>For Class 55 Rating, Add</i>	105.22	
40 05 19 00-0026	EA		4" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,015.33	239.80
			<i>For Class 52 Rating, Deduct</i>	-71.72	
			<i>For Class 54 Rating, Add</i>	48.90	
			<i>For Class 55 Rating, Add</i>	108.69	
40 05 19 00-0027	EA		4" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,040.72	242.82
			<i>For Class 52 Rating, Deduct</i>	-74.01	
			<i>For Class 54 Rating, Add</i>	50.46	
			<i>For Class 55 Rating, Add</i>	112.16	
40 05 19 00-0028	EA		4" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,066.10	245.85
			<i>For Class 52 Rating, Deduct</i>	-76.30	
			<i>For Class 54 Rating, Add</i>	52.02	
			<i>For Class 55 Rating, Add</i>	115.62	
40 05 19 00-0029	EA		4" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,091.49	248.88
			<i>For Class 52 Rating, Deduct</i>	-78.58	
			<i>For Class 54 Rating, Add</i>	53.58	
			<i>For Class 55 Rating, Add</i>	119.09	
40 05 19 00-0030	EA		4" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,116.88	251.91
			<i>For Class 52 Rating, Deduct</i>	-80.87	
			<i>For Class 54 Rating, Add</i>	55.14	
			<i>For Class 55 Rating, Add</i>	122.56	
40 05 19 00-0031	EA		4" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,142.27	254.94
			<i>For Class 52 Rating, Deduct</i>	-83.16	
			<i>For Class 54 Rating, Add</i>	56.70	
			<i>For Class 55 Rating, Add</i>	126.03	
40 05 19 00-0032	EA		4" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,167.65	257.97
			<i>For Class 52 Rating, Deduct</i>	-85.45	
			<i>For Class 54 Rating, Add</i>	58.26	
			<i>For Class 55 Rating, Add</i>	129.49	
40 05 19 00-0033	EA		4" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,193.04	261.00
			<i>For Class 52 Rating, Deduct</i>	-87.74	
			<i>For Class 54 Rating, Add</i>	59.82	
			<i>For Class 55 Rating, Add</i>	132.96	
40 05 19 00-0034	EA		4" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,218.43	264.01
			<i>For Class 52 Rating, Deduct</i>	-90.02	
			<i>For Class 54 Rating, Add</i>	61.38	
			<i>For Class 55 Rating, Add</i>	136.43	
40 05 19 00-0035	EA		4" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,243.81	267.04
			<i>For Class 52 Rating, Deduct</i>	-92.31	
			<i>For Class 54 Rating, Add</i>	62.94	
			<i>For Class 55 Rating, Add</i>	139.89	
40 05 19 00-0036	EA		4" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,269.20	270.07
			<i>For Class 52 Rating, Deduct</i>	-94.60	
			<i>For Class 54 Rating, Add</i>	64.50	
			<i>For Class 55 Rating, Add</i>	143.36	
40 05 19 00-0037	EA		4" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,294.59	273.10
			<i>For Class 52 Rating, Deduct</i>	-96.89	
			<i>For Class 54 Rating, Add</i>	66.06	
			<i>For Class 55 Rating, Add</i>	146.83	
40 05 19 00-0038	EA		4" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,319.98	276.13
			<i>For Class 52 Rating, Deduct</i>	-99.18	
			<i>For Class 54 Rating, Add</i>	67.62	
			<i>For Class 55 Rating, Add</i>	150.30	
40 05 19 00-0039	EA		4" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,345.36	279.16
			<i>For Class 52 Rating, Deduct</i>	-101.46	
			<i>For Class 54 Rating, Add</i>	69.18	
			<i>For Class 55 Rating, Add</i>	153.76	
40 05 19 00-0040	EA		4" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,370.75	282.19
			<i>For Class 52 Rating, Deduct</i>	-103.75	
			<i>For Class 54 Rating, Add</i>	70.74	
			<i>For Class 55 Rating, Add</i>	157.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0041 EA 4" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,396.14	285.22
<i>For Class 52 Rating, Deduct</i>	-106.04	
<i>For Class 54 Rating, Add</i>	72.30	
<i>For Class 55 Rating, Add</i>	160.70	
40 05 19 00-0042 EA 4" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,421.53	288.24
<i>For Class 52 Rating, Deduct</i>	-108.33	
<i>For Class 54 Rating, Add</i>	73.86	
<i>For Class 55 Rating, Add</i>	164.17	
40 05 19 00-0043 6" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0044 EA 6" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	577.50	217.99
<i>For Class 52 Rating, Deduct</i>	-27.19	
<i>For Class 54 Rating, Add</i>	18.54	
<i>For Class 55 Rating, Add</i>	41.21	
40 05 19 00-0045 EA 6" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	607.69	221.02
<i>For Class 52 Rating, Deduct</i>	-30.01	
<i>For Class 54 Rating, Add</i>	20.46	
<i>For Class 55 Rating, Add</i>	45.48	
40 05 19 00-0046 EA 6" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	637.88	224.05
<i>For Class 52 Rating, Deduct</i>	-32.82	
<i>For Class 54 Rating, Add</i>	22.38	
<i>For Class 55 Rating, Add</i>	49.74	
40 05 19 00-0047 EA 6" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	668.06	227.08
<i>For Class 52 Rating, Deduct</i>	-35.64	
<i>For Class 54 Rating, Add</i>	24.30	
<i>For Class 55 Rating, Add</i>	54.01	
40 05 19 00-0048 EA 6" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	698.25	230.11
<i>For Class 52 Rating, Deduct</i>	-38.46	
<i>For Class 54 Rating, Add</i>	26.22	
<i>For Class 55 Rating, Add</i>	58.28	
40 05 19 00-0049 EA 6" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	728.44	233.14
<i>For Class 52 Rating, Deduct</i>	-41.27	
<i>For Class 54 Rating, Add</i>	28.14	
<i>For Class 55 Rating, Add</i>	62.55	
40 05 19 00-0050 EA 6" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	758.62	236.17
<i>For Class 52 Rating, Deduct</i>	-44.09	
<i>For Class 54 Rating, Add</i>	30.06	
<i>For Class 55 Rating, Add</i>	66.81	
40 05 19 00-0051 EA 6" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	788.81	239.19
<i>For Class 52 Rating, Deduct</i>	-46.90	
<i>For Class 54 Rating, Add</i>	31.98	
<i>For Class 55 Rating, Add</i>	71.08	
40 05 19 00-0052 EA 6" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	819.00	242.22
<i>For Class 52 Rating, Deduct</i>	-49.72	
<i>For Class 54 Rating, Add</i>	33.90	
<i>For Class 55 Rating, Add</i>	75.35	
40 05 19 00-0053 EA 6" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	849.19	245.25
<i>For Class 52 Rating, Deduct</i>	-52.54	
<i>For Class 54 Rating, Add</i>	35.82	
<i>For Class 55 Rating, Add</i>	79.62	
40 05 19 00-0054 EA 6" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	879.37	248.28
<i>For Class 52 Rating, Deduct</i>	-55.35	
<i>For Class 54 Rating, Add</i>	37.74	
<i>For Class 55 Rating, Add</i>	83.88	
40 05 19 00-0055 EA 6" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	909.56	251.30
<i>For Class 52 Rating, Deduct</i>	-58.17	
<i>For Class 54 Rating, Add</i>	39.66	
<i>For Class 55 Rating, Add</i>	88.15	
40 05 19 00-0056 EA 6" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	939.75	254.33
<i>For Class 52 Rating, Deduct</i>	-60.98	
<i>For Class 54 Rating, Add</i>	41.58	
<i>For Class 55 Rating, Add</i>	92.42	
40 05 19 00-0057 EA 6" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	969.93	257.36
<i>For Class 52 Rating, Deduct</i>	-63.80	
<i>For Class 54 Rating, Add</i>	43.50	
<i>For Class 55 Rating, Add</i>	96.69	
40 05 19 00-0058 EA 6" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,000.12	260.38
<i>For Class 52 Rating, Deduct</i>	-66.62	
<i>For Class 54 Rating, Add</i>	45.42	
<i>For Class 55 Rating, Add</i>	100.95	
40 05 19 00-0059 EA 6" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,030.31	263.41
<i>For Class 52 Rating, Deduct</i>	-69.43	
<i>For Class 54 Rating, Add</i>	47.34	
<i>For Class 55 Rating, Add</i>	105.22	
40 05 19 00-0060 EA 6" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,060.50	266.44
<i>For Class 52 Rating, Deduct</i>	-72.25	
<i>For Class 54 Rating, Add</i>	49.26	
<i>For Class 55 Rating, Add</i>	109.49	
40 05 19 00-0061 EA 6" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,090.68	269.47
<i>For Class 52 Rating, Deduct</i>	-75.06	
<i>For Class 54 Rating, Add</i>	51.18	
<i>For Class 55 Rating, Add</i>	113.76	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0062	EA		6" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,120.88	272.50
			<i>For Class 52 Rating, Deduct</i>	-77.88	
			<i>For Class 54 Rating, Add</i>	53.10	
			<i>For Class 55 Rating, Add</i>	118.02	
40 05 19 00-0063	EA		6" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,151.07	275.53
			<i>For Class 52 Rating, Deduct</i>	-80.70	
			<i>For Class 54 Rating, Add</i>	55.02	
			<i>For Class 55 Rating, Add</i>	122.29	
40 05 19 00-0064	EA		6" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,181.25	278.56
			<i>For Class 52 Rating, Deduct</i>	-83.51	
			<i>For Class 54 Rating, Add</i>	56.94	
			<i>For Class 55 Rating, Add</i>	126.56	
40 05 19 00-0065	EA		6" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,211.44	281.59
			<i>For Class 52 Rating, Deduct</i>	-86.33	
			<i>For Class 54 Rating, Add</i>	58.86	
			<i>For Class 55 Rating, Add</i>	130.83	
40 05 19 00-0066	EA		6" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,241.63	284.60
			<i>For Class 52 Rating, Deduct</i>	-89.14	
			<i>For Class 54 Rating, Add</i>	60.78	
			<i>For Class 55 Rating, Add</i>	135.09	
40 05 19 00-0067	EA		6" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,271.82	287.63
			<i>For Class 52 Rating, Deduct</i>	-91.96	
			<i>For Class 54 Rating, Add</i>	62.70	
			<i>For Class 55 Rating, Add</i>	139.36	
40 05 19 00-0068	EA		6" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,302.00	290.66
			<i>For Class 52 Rating, Deduct</i>	-94.78	
			<i>For Class 54 Rating, Add</i>	64.62	
			<i>For Class 55 Rating, Add</i>	143.63	
40 05 19 00-0069	EA		6" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,332.19	293.69
			<i>For Class 52 Rating, Deduct</i>	-97.59	
			<i>For Class 54 Rating, Add</i>	66.54	
			<i>For Class 55 Rating, Add</i>	147.90	
40 05 19 00-0070	EA		6" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,362.38	296.72
			<i>For Class 52 Rating, Deduct</i>	-100.41	
			<i>For Class 54 Rating, Add</i>	68.46	
			<i>For Class 55 Rating, Add</i>	152.16	
40 05 19 00-0071	EA		6" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,392.56	299.75
			<i>For Class 52 Rating, Deduct</i>	-103.22	
			<i>For Class 54 Rating, Add</i>	70.38	
			<i>For Class 55 Rating, Add</i>	156.43	
40 05 19 00-0072	EA		6" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,422.75	302.78
			<i>For Class 52 Rating, Deduct</i>	-106.04	
			<i>For Class 54 Rating, Add</i>	72.30	
			<i>For Class 55 Rating, Add</i>	160.70	
40 05 19 00-0073	EA		6" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,452.94	305.80
			<i>For Class 52 Rating, Deduct</i>	-108.86	
			<i>For Class 54 Rating, Add</i>	74.22	
			<i>For Class 55 Rating, Add</i>	164.97	
40 05 19 00-0074	EA		6" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,483.12	308.83
			<i>For Class 52 Rating, Deduct</i>	-111.67	
			<i>For Class 54 Rating, Add</i>	76.14	
			<i>For Class 55 Rating, Add</i>	169.23	
40 05 19 00-0075	EA		6" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,513.31	311.86
			<i>For Class 52 Rating, Deduct</i>	-114.49	
			<i>For Class 54 Rating, Add</i>	78.06	
			<i>For Class 55 Rating, Add</i>	173.50	
40 05 19 00-0076	EA		6" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,543.50	314.89
			<i>For Class 52 Rating, Deduct</i>	-117.30	
			<i>For Class 54 Rating, Add</i>	79.98	
			<i>For Class 55 Rating, Add</i>	177.77	
40 05 19 00-0077	EA		6" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,573.69	317.91
			<i>For Class 52 Rating, Deduct</i>	-120.12	
			<i>For Class 54 Rating, Add</i>	81.90	
			<i>For Class 55 Rating, Add</i>	182.04	
40 05 19 00-0078	EA		6" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,603.87	320.94
			<i>For Class 52 Rating, Deduct</i>	-122.94	
			<i>For Class 54 Rating, Add</i>	83.82	
			<i>For Class 55 Rating, Add</i>	186.30	
40 05 19 00-0079	EA		6" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,634.06	323.97
			<i>For Class 52 Rating, Deduct</i>	-125.75	
			<i>For Class 54 Rating, Add</i>	85.74	
			<i>For Class 55 Rating, Add</i>	190.57	
40 05 19 00-0080	EA		6" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,664.25	327.00
			<i>For Class 52 Rating, Deduct</i>	-128.57	
			<i>For Class 54 Rating, Add</i>	87.66	
			<i>For Class 55 Rating, Add</i>	194.84	
40 05 19 00-0081	EA		6" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,694.43	330.02
			<i>For Class 52 Rating, Deduct</i>	-131.38	
			<i>For Class 54 Rating, Add</i>	89.58	
			<i>For Class 55 Rating, Add</i>	199.11	
40 05 19 00-0082	EA		6" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,724.62	333.05
			<i>For Class 52 Rating, Deduct</i>	-134.20	
			<i>For Class 54 Rating, Add</i>	91.50	
			<i>For Class 55 Rating, Add</i>	203.37	



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT	DEMOLITION
		UNIT COST	UNIT COST
40 05 19 00-0083	8" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0084	EA 8" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	786.05	278.56
	For Class 52 Rating, Deduct	-40.04	
	For Class 54 Rating, Add	27.30	
	For Class 55 Rating, Add	60.68	
40 05 19 00-0085	EA 8" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	825.84	281.59
	For Class 52 Rating, Deduct	-43.91	
	For Class 54 Rating, Add	29.94	
	For Class 55 Rating, Add	66.55	
40 05 19 00-0086	EA 8" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	865.63	284.60
	For Class 52 Rating, Deduct	-47.78	
	For Class 54 Rating, Add	32.58	
	For Class 55 Rating, Add	72.41	
40 05 19 00-0087	EA 8" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	905.42	287.63
	For Class 52 Rating, Deduct	-51.66	
	For Class 54 Rating, Add	35.22	
	For Class 55 Rating, Add	78.28	
40 05 19 00-0088	EA 8" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	945.20	290.66
	For Class 52 Rating, Deduct	-55.53	
	For Class 54 Rating, Add	37.86	
	For Class 55 Rating, Add	84.15	
40 05 19 00-0089	EA 8" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	984.99	293.69
	For Class 52 Rating, Deduct	-59.40	
	For Class 54 Rating, Add	40.50	
	For Class 55 Rating, Add	90.02	
40 05 19 00-0090	EA 8" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,024.78	296.72
	For Class 52 Rating, Deduct	-63.27	
	For Class 54 Rating, Add	43.14	
	For Class 55 Rating, Add	95.89	
40 05 19 00-0091	EA 8" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,064.56	299.75
	For Class 52 Rating, Deduct	-67.14	
	For Class 54 Rating, Add	45.78	
	For Class 55 Rating, Add	101.75	
40 05 19 00-0092	EA 8" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,104.35	302.78
	For Class 52 Rating, Deduct	-71.02	
	For Class 54 Rating, Add	48.42	
	For Class 55 Rating, Add	107.62	
40 05 19 00-0093	EA 8" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,144.14	305.80
	For Class 52 Rating, Deduct	-74.89	
	For Class 54 Rating, Add	51.06	
	For Class 55 Rating, Add	113.49	
40 05 19 00-0094	EA 8" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,183.92	308.83
	For Class 52 Rating, Deduct	-78.76	
	For Class 54 Rating, Add	53.70	
	For Class 55 Rating, Add	119.36	
40 05 19 00-0095	EA 8" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,223.71	311.86
	For Class 52 Rating, Deduct	-82.63	
	For Class 54 Rating, Add	56.34	
	For Class 55 Rating, Add	125.23	
40 05 19 00-0096	EA 8" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,263.50	314.89
	For Class 52 Rating, Deduct	-86.50	
	For Class 54 Rating, Add	58.98	
	For Class 55 Rating, Add	131.09	
40 05 19 00-0097	EA 8" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,303.29	317.91
	For Class 52 Rating, Deduct	-90.38	
	For Class 54 Rating, Add	61.62	
	For Class 55 Rating, Add	136.96	
40 05 19 00-0098	EA 8" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,343.07	320.94
	For Class 52 Rating, Deduct	-94.25	
	For Class 54 Rating, Add	64.26	
	For Class 55 Rating, Add	142.83	
40 05 19 00-0099	EA 8" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,382.86	323.97
	For Class 52 Rating, Deduct	-98.12	
	For Class 54 Rating, Add	66.90	
	For Class 55 Rating, Add	148.70	
40 05 19 00-0100	EA 8" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,422.65	327.00
	For Class 52 Rating, Deduct	-101.99	
	For Class 54 Rating, Add	69.54	
	For Class 55 Rating, Add	154.56	
40 05 19 00-0101	EA 8" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,462.43	330.02
	For Class 52 Rating, Deduct	-105.86	
	For Class 54 Rating, Add	72.18	
	For Class 55 Rating, Add	160.43	
40 05 19 00-0102	EA 8" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,502.22	333.05
	For Class 52 Rating, Deduct	-109.74	
	For Class 54 Rating, Add	74.82	
	For Class 55 Rating, Add	166.30	
40 05 19 00-0103	EA 8" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,542.01	336.08
	For Class 52 Rating, Deduct	-113.61	
	For Class 54 Rating, Add	77.46	
	For Class 55 Rating, Add	172.17	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0104	EA		8" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,581.80	339.11
			<i>For Class 52 Rating, Deduct</i>	-117.48	
			<i>For Class 54 Rating, Add</i>	80.10	
			<i>For Class 55 Rating, Add</i>	178.04	
40 05 19 00-0105	EA		8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,621.58	342.14
			<i>For Class 52 Rating, Deduct</i>	-121.35	
			<i>For Class 54 Rating, Add</i>	82.74	
			<i>For Class 55 Rating, Add</i>	183.90	
40 05 19 00-0106	EA		8" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,661.37	345.17
			<i>For Class 52 Rating, Deduct</i>	-125.22	
			<i>For Class 54 Rating, Add</i>	85.38	
			<i>For Class 55 Rating, Add</i>	189.77	
40 05 19 00-0107	EA		8" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,701.16	348.20
			<i>For Class 52 Rating, Deduct</i>	-129.10	
			<i>For Class 54 Rating, Add</i>	88.02	
			<i>For Class 55 Rating, Add</i>	195.64	
40 05 19 00-0108	EA		8" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,740.95	351.21
			<i>For Class 52 Rating, Deduct</i>	-132.97	
			<i>For Class 54 Rating, Add</i>	90.66	
			<i>For Class 55 Rating, Add</i>	201.51	
40 05 19 00-0109	EA		8" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,780.74	354.24
			<i>For Class 52 Rating, Deduct</i>	-136.84	
			<i>For Class 54 Rating, Add</i>	93.30	
			<i>For Class 55 Rating, Add</i>	207.37	
40 05 19 00-0110	EA		8" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,820.53	357.27
			<i>For Class 52 Rating, Deduct</i>	-140.71	
			<i>For Class 54 Rating, Add</i>	95.94	
			<i>For Class 55 Rating, Add</i>	213.24	
40 05 19 00-0111	EA		8" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,860.32	360.30
			<i>For Class 52 Rating, Deduct</i>	-144.58	
			<i>For Class 54 Rating, Add</i>	98.58	
			<i>For Class 55 Rating, Add</i>	219.11	
40 05 19 00-0112	EA		8" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,900.10	363.33
			<i>For Class 52 Rating, Deduct</i>	-148.46	
			<i>For Class 54 Rating, Add</i>	101.22	
			<i>For Class 55 Rating, Add</i>	224.98	
40 05 19 00-0113	EA		8" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,939.89	366.36
			<i>For Class 52 Rating, Deduct</i>	-152.33	
			<i>For Class 54 Rating, Add</i>	103.86	
			<i>For Class 55 Rating, Add</i>	230.85	
40 05 19 00-0114	EA		8" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,979.68	369.39
			<i>For Class 52 Rating, Deduct</i>	-156.20	
			<i>For Class 54 Rating, Add</i>	106.50	
			<i>For Class 55 Rating, Add</i>	236.71	
40 05 19 00-0115	EA		8" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,019.46	372.41
			<i>For Class 52 Rating, Deduct</i>	-160.07	
			<i>For Class 54 Rating, Add</i>	109.14	
			<i>For Class 55 Rating, Add</i>	242.58	
40 05 19 00-0116	EA		8" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,059.25	375.44
			<i>For Class 52 Rating, Deduct</i>	-163.94	
			<i>For Class 54 Rating, Add</i>	111.78	
			<i>For Class 55 Rating, Add</i>	248.45	
40 05 19 00-0117	EA		8" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,099.04	378.47
			<i>For Class 52 Rating, Deduct</i>	-167.82	
			<i>For Class 54 Rating, Add</i>	114.42	
			<i>For Class 55 Rating, Add</i>	254.32	
40 05 19 00-0118	EA		8" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,138.83	381.50
			<i>For Class 52 Rating, Deduct</i>	-171.69	
			<i>For Class 54 Rating, Add</i>	117.06	
			<i>For Class 55 Rating, Add</i>	260.19	
40 05 19 00-0119	EA		8" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,178.61	384.52
			<i>For Class 52 Rating, Deduct</i>	-175.56	
			<i>For Class 54 Rating, Add</i>	119.70	
			<i>For Class 55 Rating, Add</i>	266.05	
40 05 19 00-0120	EA		8" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,218.40	387.55
			<i>For Class 52 Rating, Deduct</i>	-179.43	
			<i>For Class 54 Rating, Add</i>	122.34	
			<i>For Class 55 Rating, Add</i>	271.92	
40 05 19 00-0121	EA		8" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,258.19	390.58
			<i>For Class 52 Rating, Deduct</i>	-183.30	
			<i>For Class 54 Rating, Add</i>	124.98	
			<i>For Class 55 Rating, Add</i>	277.79	
40 05 19 00-0122	EA		8" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,297.97	393.61
			<i>For Class 52 Rating, Deduct</i>	-187.18	
			<i>For Class 54 Rating, Add</i>	127.62	
			<i>For Class 55 Rating, Add</i>	283.66	
40 05 19 00-0123			10" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0124	EA		10" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	981.00	339.11
			<i>For Class 52 Rating, Deduct</i>	-51.39	
			<i>For Class 54 Rating, Add</i>	35.04	
			<i>For Class 55 Rating, Add</i>	77.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0125 EA 10" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,031.98	342.14
<i>For Class 52 Rating, Deduct</i>	-56.50	
<i>For Class 54 Rating, Add</i>	38.52	
<i>For Class 55 Rating, Add</i>	85.62	
40 05 19 00-0126 EA 10" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,082.97	345.17
<i>For Class 52 Rating, Deduct</i>	-61.60	
<i>For Class 54 Rating, Add</i>	42.00	
<i>For Class 55 Rating, Add</i>	93.35	
40 05 19 00-0127 EA 10" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,133.96	348.20
<i>For Class 52 Rating, Deduct</i>	-66.70	
<i>For Class 54 Rating, Add</i>	45.48	
<i>For Class 55 Rating, Add</i>	101.09	
40 05 19 00-0128 EA 10" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,184.95	351.21
<i>For Class 52 Rating, Deduct</i>	-71.81	
<i>For Class 54 Rating, Add</i>	48.96	
<i>For Class 55 Rating, Add</i>	108.82	
40 05 19 00-0129 EA 10" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,235.94	354.24
<i>For Class 52 Rating, Deduct</i>	-76.91	
<i>For Class 54 Rating, Add</i>	52.44	
<i>For Class 55 Rating, Add</i>	116.56	
40 05 19 00-0130 EA 10" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,286.93	357.27
<i>For Class 52 Rating, Deduct</i>	-82.02	
<i>For Class 54 Rating, Add</i>	55.92	
<i>For Class 55 Rating, Add</i>	124.29	
40 05 19 00-0131 EA 10" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,337.92	360.30
<i>For Class 52 Rating, Deduct</i>	-87.12	
<i>For Class 54 Rating, Add</i>	59.40	
<i>For Class 55 Rating, Add</i>	132.03	
40 05 19 00-0132 EA 10" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,388.90	363.33
<i>For Class 52 Rating, Deduct</i>	-92.22	
<i>For Class 54 Rating, Add</i>	62.88	
<i>For Class 55 Rating, Add</i>	139.76	
40 05 19 00-0133 EA 10" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,439.89	366.36
<i>For Class 52 Rating, Deduct</i>	-97.33	
<i>For Class 54 Rating, Add</i>	66.36	
<i>For Class 55 Rating, Add</i>	147.50	
40 05 19 00-0134 EA 10" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,490.88	369.39
<i>For Class 52 Rating, Deduct</i>	-102.43	
<i>For Class 54 Rating, Add</i>	69.84	
<i>For Class 55 Rating, Add</i>	155.23	
40 05 19 00-0135 EA 10" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,541.86	372.41
<i>For Class 52 Rating, Deduct</i>	-107.54	
<i>For Class 54 Rating, Add</i>	73.32	
<i>For Class 55 Rating, Add</i>	162.97	
40 05 19 00-0136 EA 10" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,592.85	375.44
<i>For Class 52 Rating, Deduct</i>	-112.64	
<i>For Class 54 Rating, Add</i>	76.80	
<i>For Class 55 Rating, Add</i>	170.70	
40 05 19 00-0137 EA 10" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,643.84	378.47
<i>For Class 52 Rating, Deduct</i>	-117.74	
<i>For Class 54 Rating, Add</i>	80.28	
<i>For Class 55 Rating, Add</i>	178.44	
40 05 19 00-0138 EA 10" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,694.83	381.50
<i>For Class 52 Rating, Deduct</i>	-122.85	
<i>For Class 54 Rating, Add</i>	83.76	
<i>For Class 55 Rating, Add</i>	186.17	
40 05 19 00-0139 EA 10" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,745.81	384.52
<i>For Class 52 Rating, Deduct</i>	-127.95	
<i>For Class 54 Rating, Add</i>	87.24	
<i>For Class 55 Rating, Add</i>	193.91	
40 05 19 00-0140 EA 10" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,796.80	387.55
<i>For Class 52 Rating, Deduct</i>	-133.06	
<i>For Class 54 Rating, Add</i>	90.72	
<i>For Class 55 Rating, Add</i>	201.64	
40 05 19 00-0141 EA 10" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,847.79	390.58
<i>For Class 52 Rating, Deduct</i>	-138.16	
<i>For Class 54 Rating, Add</i>	94.20	
<i>For Class 55 Rating, Add</i>	209.38	
40 05 19 00-0142 EA 10" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,898.77	393.61
<i>For Class 52 Rating, Deduct</i>	-143.26	
<i>For Class 54 Rating, Add</i>	97.68	
<i>For Class 55 Rating, Add</i>	217.11	
40 05 19 00-0143 EA 10" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,949.76	396.63
<i>For Class 52 Rating, Deduct</i>	-148.37	
<i>For Class 54 Rating, Add</i>	101.16	
<i>For Class 55 Rating, Add</i>	224.84	
40 05 19 00-0144 EA 10" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,000.75	399.66
<i>For Class 52 Rating, Deduct</i>	-153.47	
<i>For Class 54 Rating, Add</i>	104.64	
<i>For Class 55 Rating, Add</i>	232.58	
40 05 19 00-0145 EA 10" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,051.74	402.69
<i>For Class 52 Rating, Deduct</i>	-158.58	
<i>For Class 54 Rating, Add</i>	108.12	
<i>For Class 55 Rating, Add</i>	240.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0146 EA 10" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,102.72	405.72
For Class 52 Rating, Deduct	-163.68	
For Class 54 Rating, Add	111.60	
For Class 55 Rating, Add	248.05	
40 05 19 00-0147 EA 10" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,153.71	408.75
For Class 52 Rating, Deduct	-168.78	
For Class 54 Rating, Add	115.08	
For Class 55 Rating, Add	255.78	
40 05 19 00-0148 EA 10" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,204.70	411.78
For Class 52 Rating, Deduct	-173.89	
For Class 54 Rating, Add	118.56	
For Class 55 Rating, Add	263.52	
40 05 19 00-0149 EA 10" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,255.68	414.81
For Class 52 Rating, Deduct	-178.99	
For Class 54 Rating, Add	122.04	
For Class 55 Rating, Add	271.25	
40 05 19 00-0150 EA 10" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,306.67	417.82
For Class 52 Rating, Deduct	-184.10	
For Class 54 Rating, Add	125.52	
For Class 55 Rating, Add	278.99	
40 05 19 00-0151 EA 10" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,357.66	420.85
For Class 52 Rating, Deduct	-189.20	
For Class 54 Rating, Add	129.00	
For Class 55 Rating, Add	286.72	
40 05 19 00-0152 EA 10" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,408.64	423.88
For Class 52 Rating, Deduct	-194.30	
For Class 54 Rating, Add	132.48	
For Class 55 Rating, Add	294.46	
40 05 19 00-0153 EA 10" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,459.64	426.91
For Class 52 Rating, Deduct	-199.41	
For Class 54 Rating, Add	135.96	
For Class 55 Rating, Add	302.19	
40 05 19 00-0154 EA 10" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,510.63	429.94
For Class 52 Rating, Deduct	-204.51	
For Class 54 Rating, Add	139.44	
For Class 55 Rating, Add	309.93	
40 05 19 00-0155 EA 10" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,560.82	432.97
For Class 52 Rating, Deduct	-209.53	
For Class 54 Rating, Add	142.86	
For Class 55 Rating, Add	317.53	
40 05 19 00-0156 EA 10" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,612.60	436.00
For Class 52 Rating, Deduct	-214.72	
For Class 54 Rating, Add	146.40	
For Class 55 Rating, Add	325.40	
40 05 19 00-0157 EA 10" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,663.59	439.03
For Class 52 Rating, Deduct	-219.82	
For Class 54 Rating, Add	149.88	
For Class 55 Rating, Add	333.13	
40 05 19 00-0158 EA 10" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,714.58	442.05
For Class 52 Rating, Deduct	-224.93	
For Class 54 Rating, Add	153.36	
For Class 55 Rating, Add	340.87	
40 05 19 00-0159 EA 10" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,765.56	445.08
For Class 52 Rating, Deduct	-230.03	
For Class 54 Rating, Add	156.84	
For Class 55 Rating, Add	348.60	
40 05 19 00-0160 EA 10" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,816.55	448.11
For Class 52 Rating, Deduct	-235.14	
For Class 54 Rating, Add	160.32	
For Class 55 Rating, Add	356.34	
40 05 19 00-0161 EA 10" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,867.54	451.13
For Class 52 Rating, Deduct	-240.24	
For Class 54 Rating, Add	163.80	
For Class 55 Rating, Add	364.07	
40 05 19 00-0162 EA 10" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,918.53	454.16
For Class 52 Rating, Deduct	-245.34	
For Class 54 Rating, Add	167.28	
For Class 55 Rating, Add	371.81	
40 05 19 00-0163 12" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0164 EA 12" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,267.84	423.88
For Class 52 Rating, Deduct	-68.82	
For Class 54 Rating, Add	46.92	
For Class 55 Rating, Add	104.29	
40 05 19 00-0165 EA 12" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,330.84	426.91
For Class 52 Rating, Deduct	-75.24	
For Class 54 Rating, Add	51.30	
For Class 55 Rating, Add	114.02	
40 05 19 00-0166 EA 12" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,393.83	429.94
For Class 52 Rating, Deduct	-81.66	
For Class 54 Rating, Add	55.68	
For Class 55 Rating, Add	123.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0167 EA 12" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,456.82	432.97
<i>For Class 52 Rating, Deduct</i>	-88.09	
<i>For Class 54 Rating, Add</i>	60.06	
<i>For Class 55 Rating, Add</i>	133.49	
40 05 19 00-0168 EA 12" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,519.80	436.00
<i>For Class 52 Rating, Deduct</i>	-94.51	
<i>For Class 54 Rating, Add</i>	64.44	
<i>For Class 55 Rating, Add</i>	143.23	
40 05 19 00-0169 EA 12" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,582.79	439.03
<i>For Class 52 Rating, Deduct</i>	-100.94	
<i>For Class 54 Rating, Add</i>	68.82	
<i>For Class 55 Rating, Add</i>	152.96	
40 05 19 00-0170 EA 12" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,645.78	442.05
<i>For Class 52 Rating, Deduct</i>	-107.36	
<i>For Class 54 Rating, Add</i>	73.20	
<i>For Class 55 Rating, Add</i>	162.70	
40 05 19 00-0171 EA 12" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,708.76	445.08
<i>For Class 52 Rating, Deduct</i>	-113.78	
<i>For Class 54 Rating, Add</i>	77.58	
<i>For Class 55 Rating, Add</i>	172.43	
40 05 19 00-0172 EA 12" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,771.75	448.11
<i>For Class 52 Rating, Deduct</i>	-120.21	
<i>For Class 54 Rating, Add</i>	81.96	
<i>For Class 55 Rating, Add</i>	182.17	
40 05 19 00-0173 EA 12" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,834.74	451.13
<i>For Class 52 Rating, Deduct</i>	-126.63	
<i>For Class 54 Rating, Add</i>	86.34	
<i>For Class 55 Rating, Add</i>	191.91	
40 05 19 00-0174 EA 12" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,897.73	454.16
<i>For Class 52 Rating, Deduct</i>	-133.06	
<i>For Class 54 Rating, Add</i>	90.72	
<i>For Class 55 Rating, Add</i>	201.64	
40 05 19 00-0175 EA 12" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,960.71	457.19
<i>For Class 52 Rating, Deduct</i>	-139.48	
<i>For Class 54 Rating, Add</i>	95.10	
<i>For Class 55 Rating, Add</i>	211.38	
40 05 19 00-0176 EA 12" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,023.70	460.22
<i>For Class 52 Rating, Deduct</i>	-145.90	
<i>For Class 54 Rating, Add</i>	99.48	
<i>For Class 55 Rating, Add</i>	221.11	
40 05 19 00-0177 EA 12" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,086.69	463.24
<i>For Class 52 Rating, Deduct</i>	-152.33	
<i>For Class 54 Rating, Add</i>	103.86	
<i>For Class 55 Rating, Add</i>	230.85	
40 05 19 00-0178 EA 12" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,149.67	466.27
<i>For Class 52 Rating, Deduct</i>	-158.75	
<i>For Class 54 Rating, Add</i>	108.24	
<i>For Class 55 Rating, Add</i>	240.58	
40 05 19 00-0179 EA 12" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,212.66	469.30
<i>For Class 52 Rating, Deduct</i>	-165.18	
<i>For Class 54 Rating, Add</i>	112.62	
<i>For Class 55 Rating, Add</i>	250.32	
40 05 19 00-0180 EA 12" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,275.65	472.33
<i>For Class 52 Rating, Deduct</i>	-171.60	
<i>For Class 54 Rating, Add</i>	117.00	
<i>For Class 55 Rating, Add</i>	260.05	
40 05 19 00-0181 EA 12" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,338.64	475.36
<i>For Class 52 Rating, Deduct</i>	-178.02	
<i>For Class 54 Rating, Add</i>	121.38	
<i>For Class 55 Rating, Add</i>	269.79	
40 05 19 00-0182 EA 12" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,401.62	478.39
<i>For Class 52 Rating, Deduct</i>	-184.45	
<i>For Class 54 Rating, Add</i>	125.76	
<i>For Class 55 Rating, Add</i>	279.52	
40 05 19 00-0183 EA 12" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,464.61	481.42
<i>For Class 52 Rating, Deduct</i>	-190.87	
<i>For Class 54 Rating, Add</i>	130.14	
<i>For Class 55 Rating, Add</i>	289.26	
40 05 19 00-0184 EA 12" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,527.60	484.44
<i>For Class 52 Rating, Deduct</i>	-197.30	
<i>For Class 54 Rating, Add</i>	134.52	
<i>For Class 55 Rating, Add</i>	298.99	
40 05 19 00-0185 EA 12" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,590.58	487.46
<i>For Class 52 Rating, Deduct</i>	-203.72	
<i>For Class 54 Rating, Add</i>	138.90	
<i>For Class 55 Rating, Add</i>	308.73	
40 05 19 00-0186 EA 12" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,653.57	490.49
<i>For Class 52 Rating, Deduct</i>	-210.14	
<i>For Class 54 Rating, Add</i>	143.28	
<i>For Class 55 Rating, Add</i>	318.46	
40 05 19 00-0187 EA 12" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,716.56	493.52
<i>For Class 52 Rating, Deduct</i>	-216.57	
<i>For Class 54 Rating, Add</i>	147.66	
<i>For Class 55 Rating, Add</i>	328.20	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0188	EA		12" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,779.55	496.55
			<i>For Class 52 Rating, Deduct</i>	-222.99	
			<i>For Class 54 Rating, Add</i>	152.04	
			<i>For Class 55 Rating, Add</i>	337.93	
40 05 19 00-0189	EA		12" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,842.53	499.58
			<i>For Class 52 Rating, Deduct</i>	-229.42	
			<i>For Class 54 Rating, Add</i>	156.42	
			<i>For Class 55 Rating, Add</i>	347.67	
40 05 19 00-0190	EA		12" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,905.52	502.61
			<i>For Class 52 Rating, Deduct</i>	-235.84	
			<i>For Class 54 Rating, Add</i>	160.80	
			<i>For Class 55 Rating, Add</i>	357.40	
40 05 19 00-0191	EA		12" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,968.52	505.64
			<i>For Class 52 Rating, Deduct</i>	-242.26	
			<i>For Class 54 Rating, Add</i>	165.18	
			<i>For Class 55 Rating, Add</i>	367.14	
40 05 19 00-0192	EA		12" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,031.50	508.66
			<i>For Class 52 Rating, Deduct</i>	-248.69	
			<i>For Class 54 Rating, Add</i>	169.56	
			<i>For Class 55 Rating, Add</i>	376.88	
40 05 19 00-0193	EA		12" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,094.49	511.69
			<i>For Class 52 Rating, Deduct</i>	-255.11	
			<i>For Class 54 Rating, Add</i>	173.94	
			<i>For Class 55 Rating, Add</i>	386.61	
40 05 19 00-0194	EA		12" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,157.48	514.72
			<i>For Class 52 Rating, Deduct</i>	-261.54	
			<i>For Class 54 Rating, Add</i>	178.32	
			<i>For Class 55 Rating, Add</i>	396.35	
40 05 19 00-0195	EA		12" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,220.47	517.74
			<i>For Class 52 Rating, Deduct</i>	-267.96	
			<i>For Class 54 Rating, Add</i>	182.70	
			<i>For Class 55 Rating, Add</i>	406.08	
40 05 19 00-0196	EA		12" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,283.45	520.77
			<i>For Class 52 Rating, Deduct</i>	-274.38	
			<i>For Class 54 Rating, Add</i>	187.08	
			<i>For Class 55 Rating, Add</i>	415.82	
40 05 19 00-0197	EA		12" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,346.44	523.80
			<i>For Class 52 Rating, Deduct</i>	-280.81	
			<i>For Class 54 Rating, Add</i>	191.46	
			<i>For Class 55 Rating, Add</i>	425.55	
40 05 19 00-0198	EA		12" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,409.43	526.83
			<i>For Class 52 Rating, Deduct</i>	-287.23	
			<i>For Class 54 Rating, Add</i>	195.84	
			<i>For Class 55 Rating, Add</i>	435.29	
40 05 19 00-0199	EA		12" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,472.41	529.85
			<i>For Class 52 Rating, Deduct</i>	-293.66	
			<i>For Class 54 Rating, Add</i>	200.22	
			<i>For Class 55 Rating, Add</i>	445.02	
40 05 19 00-0200	EA		12" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,535.40	532.88
			<i>For Class 52 Rating, Deduct</i>	-300.08	
			<i>For Class 54 Rating, Add</i>	204.60	
			<i>For Class 55 Rating, Add</i>	454.76	
40 05 19 00-0201	EA		12" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,598.39	535.91
			<i>For Class 52 Rating, Deduct</i>	-306.50	
			<i>For Class 54 Rating, Add</i>	208.98	
			<i>For Class 55 Rating, Add</i>	464.49	
40 05 19 00-0202	EA		12" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,661.37	538.94
			<i>For Class 52 Rating, Deduct</i>	-312.93	
			<i>For Class 54 Rating, Add</i>	213.36	
			<i>For Class 55 Rating, Add</i>	474.23	
40 05 19 00-0203			14" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0204	EA		14" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,646.70	508.66
			<i>For Class 52 Rating, Deduct</i>	-96.36	
			<i>For Class 54 Rating, Add</i>	65.70	
			<i>For Class 55 Rating, Add</i>	146.03	
40 05 19 00-0205	EA		14" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,722.49	511.69
			<i>For Class 52 Rating, Deduct</i>	-104.19	
			<i>For Class 54 Rating, Add</i>	71.04	
			<i>For Class 55 Rating, Add</i>	157.90	
40 05 19 00-0206	EA		14" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,798.28	514.72
			<i>For Class 52 Rating, Deduct</i>	-112.02	
			<i>For Class 54 Rating, Add</i>	76.38	
			<i>For Class 55 Rating, Add</i>	169.77	
40 05 19 00-0207	EA		14" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,874.07	517.74
			<i>For Class 52 Rating, Deduct</i>	-119.86	
			<i>For Class 54 Rating, Add</i>	81.72	
			<i>For Class 55 Rating, Add</i>	181.64	
40 05 19 00-0208	EA		14" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,949.85	520.77
			<i>For Class 52 Rating, Deduct</i>	-127.69	
			<i>For Class 54 Rating, Add</i>	87.06	
			<i>For Class 55 Rating, Add</i>	193.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0209 EA 14" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,025.64	523.80
<i>For Class 52 Rating, Deduct</i>	-135.52	
<i>For Class 54 Rating, Add</i>	92.40	
<i>For Class 55 Rating, Add</i>	205.37	
40 05 19 00-0210 EA 14" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,101.43	526.83
<i>For Class 52 Rating, Deduct</i>	-143.35	
<i>For Class 54 Rating, Add</i>	97.74	
<i>For Class 55 Rating, Add</i>	217.24	
40 05 19 00-0211 EA 14" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,177.21	529.85
<i>For Class 52 Rating, Deduct</i>	-151.18	
<i>For Class 54 Rating, Add</i>	103.08	
<i>For Class 55 Rating, Add</i>	229.11	
40 05 19 00-0212 EA 14" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,253.00	532.88
<i>For Class 52 Rating, Deduct</i>	-159.02	
<i>For Class 54 Rating, Add</i>	108.42	
<i>For Class 55 Rating, Add</i>	240.98	
40 05 19 00-0213 EA 14" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,328.79	535.91
<i>For Class 52 Rating, Deduct</i>	-166.85	
<i>For Class 54 Rating, Add</i>	113.76	
<i>For Class 55 Rating, Add</i>	252.85	
40 05 19 00-0214 EA 14" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,404.57	538.94
<i>For Class 52 Rating, Deduct</i>	-174.68	
<i>For Class 54 Rating, Add</i>	119.10	
<i>For Class 55 Rating, Add</i>	264.72	
40 05 19 00-0215 EA 14" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,480.36	541.97
<i>For Class 52 Rating, Deduct</i>	-182.51	
<i>For Class 54 Rating, Add</i>	124.44	
<i>For Class 55 Rating, Add</i>	276.59	
40 05 19 00-0216 EA 14" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,556.15	545.00
<i>For Class 52 Rating, Deduct</i>	-190.34	
<i>For Class 54 Rating, Add</i>	129.78	
<i>For Class 55 Rating, Add</i>	288.46	
40 05 19 00-0217 EA 14" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,631.94	548.03
<i>For Class 52 Rating, Deduct</i>	-198.18	
<i>For Class 54 Rating, Add</i>	135.12	
<i>For Class 55 Rating, Add</i>	300.33	
40 05 19 00-0218 EA 14" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,707.72	551.05
<i>For Class 52 Rating, Deduct</i>	-206.01	
<i>For Class 54 Rating, Add</i>	140.46	
<i>For Class 55 Rating, Add</i>	312.20	
40 05 19 00-0219 EA 14" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,783.51	554.07
<i>For Class 52 Rating, Deduct</i>	-213.84	
<i>For Class 54 Rating, Add</i>	145.80	
<i>For Class 55 Rating, Add</i>	324.06	
40 05 19 00-0220 EA 14" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,859.30	557.10
<i>For Class 52 Rating, Deduct</i>	-221.67	
<i>For Class 54 Rating, Add</i>	151.14	
<i>For Class 55 Rating, Add</i>	335.93	
40 05 19 00-0221 EA 14" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,935.08	560.13
<i>For Class 52 Rating, Deduct</i>	-229.50	
<i>For Class 54 Rating, Add</i>	156.48	
<i>For Class 55 Rating, Add</i>	347.80	
40 05 19 00-0222 EA 14" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,010.87	563.16
<i>For Class 52 Rating, Deduct</i>	-237.34	
<i>For Class 54 Rating, Add</i>	161.82	
<i>For Class 55 Rating, Add</i>	359.67	
40 05 19 00-0223 EA 14" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,086.66	566.19
<i>For Class 52 Rating, Deduct</i>	-245.17	
<i>For Class 54 Rating, Add</i>	167.16	
<i>For Class 55 Rating, Add</i>	371.54	
40 05 19 00-0224 EA 14" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,162.45	569.22
<i>For Class 52 Rating, Deduct</i>	-253.00	
<i>For Class 54 Rating, Add</i>	172.50	
<i>For Class 55 Rating, Add</i>	383.41	
40 05 19 00-0225 EA 14" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,238.23	572.25
<i>For Class 52 Rating, Deduct</i>	-260.83	
<i>For Class 54 Rating, Add</i>	177.84	
<i>For Class 55 Rating, Add</i>	395.28	
40 05 19 00-0226 EA 14" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,314.02	575.27
<i>For Class 52 Rating, Deduct</i>	-268.66	
<i>For Class 54 Rating, Add</i>	183.18	
<i>For Class 55 Rating, Add</i>	407.15	
40 05 19 00-0227 EA 14" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,389.81	578.30
<i>For Class 52 Rating, Deduct</i>	-276.50	
<i>For Class 54 Rating, Add</i>	188.52	
<i>For Class 55 Rating, Add</i>	419.02	
40 05 19 00-0228 EA 14" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,465.59	581.33
<i>For Class 52 Rating, Deduct</i>	-284.33	
<i>For Class 54 Rating, Add</i>	193.86	
<i>For Class 55 Rating, Add</i>	430.89	
40 05 19 00-0229 EA 14" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,541.39	584.35
<i>For Class 52 Rating, Deduct</i>	-292.16	
<i>For Class 54 Rating, Add</i>	199.20	
<i>For Class 55 Rating, Add</i>	442.76	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0230	EA		14" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,617.18	587.38
			<i>For Class 52 Rating, Deduct</i>	-299.99	
			<i>For Class 54 Rating, Add</i>	204.54	
			<i>For Class 55 Rating, Add</i>	454.62	
40 05 19 00-0231	EA		14" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,692.97	590.41
			<i>For Class 52 Rating, Deduct</i>	-307.82	
			<i>For Class 54 Rating, Add</i>	209.88	
			<i>For Class 55 Rating, Add</i>	466.49	
40 05 19 00-0232	EA		14" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,768.75	593.44
			<i>For Class 52 Rating, Deduct</i>	-315.66	
			<i>For Class 54 Rating, Add</i>	215.22	
			<i>For Class 55 Rating, Add</i>	478.36	
40 05 19 00-0233	EA		14" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,844.54	596.47
			<i>For Class 52 Rating, Deduct</i>	-323.49	
			<i>For Class 54 Rating, Add</i>	220.56	
			<i>For Class 55 Rating, Add</i>	490.23	
40 05 19 00-0234	EA		14" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,920.33	599.49
			<i>For Class 52 Rating, Deduct</i>	-331.32	
			<i>For Class 54 Rating, Add</i>	225.90	
			<i>For Class 55 Rating, Add</i>	502.10	
40 05 19 00-0235	EA		14" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,996.11	602.52
			<i>For Class 52 Rating, Deduct</i>	-339.15	
			<i>For Class 54 Rating, Add</i>	231.24	
			<i>For Class 55 Rating, Add</i>	513.97	
40 05 19 00-0236	EA		14" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,071.90	605.55
			<i>For Class 52 Rating, Deduct</i>	-346.98	
			<i>For Class 54 Rating, Add</i>	236.58	
			<i>For Class 55 Rating, Add</i>	525.84	
40 05 19 00-0237	EA		14" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,147.69	608.58
			<i>For Class 52 Rating, Deduct</i>	-354.82	
			<i>For Class 54 Rating, Add</i>	241.92	
			<i>For Class 55 Rating, Add</i>	537.71	
40 05 19 00-0238	EA		14" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,223.48	611.61
			<i>For Class 52 Rating, Deduct</i>	-362.65	
			<i>For Class 54 Rating, Add</i>	247.26	
			<i>For Class 55 Rating, Add</i>	549.58	
40 05 19 00-0239	EA		14" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,299.26	614.64
			<i>For Class 52 Rating, Deduct</i>	-370.48	
			<i>For Class 54 Rating, Add</i>	252.60	
			<i>For Class 55 Rating, Add</i>	561.45	
40 05 19 00-0240	EA		14" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,375.05	617.66
			<i>For Class 52 Rating, Deduct</i>	-378.31	
			<i>For Class 54 Rating, Add</i>	257.94	
			<i>For Class 55 Rating, Add</i>	573.31	
40 05 19 00-0241	EA		14" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,450.84	620.68
			<i>For Class 52 Rating, Deduct</i>	-386.14	
			<i>For Class 54 Rating, Add</i>	263.28	
			<i>For Class 55 Rating, Add</i>	585.18	
40 05 19 00-0242			16" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0243	EA		16" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,919.19	581.33
			<i>For Class 52 Rating, Deduct</i>	-114.22	
			<i>For Class 54 Rating, Add</i>	77.88	
			<i>For Class 55 Rating, Add</i>	173.10	
40 05 19 00-0244	EA		16" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,006.99	584.35
			<i>For Class 52 Rating, Deduct</i>	-123.38	
			<i>For Class 54 Rating, Add</i>	84.12	
			<i>For Class 55 Rating, Add</i>	186.97	
40 05 19 00-0245	EA		16" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,094.78	587.38
			<i>For Class 52 Rating, Deduct</i>	-132.53	
			<i>For Class 54 Rating, Add</i>	90.36	
			<i>For Class 55 Rating, Add</i>	200.84	
40 05 19 00-0246	EA		16" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,182.57	590.41
			<i>For Class 52 Rating, Deduct</i>	-141.68	
			<i>For Class 54 Rating, Add</i>	96.60	
			<i>For Class 55 Rating, Add</i>	214.71	
40 05 19 00-0247	EA		16" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,270.35	593.44
			<i>For Class 52 Rating, Deduct</i>	-150.83	
			<i>For Class 54 Rating, Add</i>	102.84	
			<i>For Class 55 Rating, Add</i>	228.58	
40 05 19 00-0248	EA		16" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,358.14	596.47
			<i>For Class 52 Rating, Deduct</i>	-159.98	
			<i>For Class 54 Rating, Add</i>	109.08	
			<i>For Class 55 Rating, Add</i>	242.45	
40 05 19 00-0249	EA		16" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,445.93	599.49
			<i>For Class 52 Rating, Deduct</i>	-169.14	
			<i>For Class 54 Rating, Add</i>	115.32	
			<i>For Class 55 Rating, Add</i>	256.32	
40 05 19 00-0250	EA		16" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,533.71	602.52
			<i>For Class 52 Rating, Deduct</i>	-178.29	
			<i>For Class 54 Rating, Add</i>	121.56	
			<i>For Class 55 Rating, Add</i>	270.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0251 EA 16" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,621.50	605.55
<i>For Class 52 Rating, Deduct</i>	-187.44	
<i>For Class 54 Rating, Add</i>	127.80	
<i>For Class 55 Rating, Add</i>	284.06	
40 05 19 00-0252 EA 16" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,709.29	608.58
<i>For Class 52 Rating, Deduct</i>	-196.59	
<i>For Class 54 Rating, Add</i>	134.04	
<i>For Class 55 Rating, Add</i>	297.93	
40 05 19 00-0253 EA 16" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,797.08	611.61
<i>For Class 52 Rating, Deduct</i>	-205.74	
<i>For Class 54 Rating, Add</i>	140.28	
<i>For Class 55 Rating, Add</i>	311.80	
40 05 19 00-0254 EA 16" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,884.86	614.64
<i>For Class 52 Rating, Deduct</i>	-214.90	
<i>For Class 54 Rating, Add</i>	146.52	
<i>For Class 55 Rating, Add</i>	325.67	
40 05 19 00-0255 EA 16" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,972.65	617.66
<i>For Class 52 Rating, Deduct</i>	-224.05	
<i>For Class 54 Rating, Add</i>	152.76	
<i>For Class 55 Rating, Add</i>	339.53	
40 05 19 00-0256 EA 16" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,060.44	620.68
<i>For Class 52 Rating, Deduct</i>	-233.20	
<i>For Class 54 Rating, Add</i>	159.00	
<i>For Class 55 Rating, Add</i>	353.40	
40 05 19 00-0257 EA 16" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,148.22	623.71
<i>For Class 52 Rating, Deduct</i>	-242.35	
<i>For Class 54 Rating, Add</i>	165.24	
<i>For Class 55 Rating, Add</i>	367.27	
40 05 19 00-0258 EA 16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,236.01	626.74
<i>For Class 52 Rating, Deduct</i>	-251.50	
<i>For Class 54 Rating, Add</i>	171.48	
<i>For Class 55 Rating, Add</i>	381.14	
40 05 19 00-0259 EA 16" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,323.80	629.77
<i>For Class 52 Rating, Deduct</i>	-260.66	
<i>For Class 54 Rating, Add</i>	177.72	
<i>For Class 55 Rating, Add</i>	395.01	
40 05 19 00-0260 EA 16" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,411.59	632.80
<i>For Class 52 Rating, Deduct</i>	-269.81	
<i>For Class 54 Rating, Add</i>	183.96	
<i>For Class 55 Rating, Add</i>	408.88	
40 05 19 00-0261 EA 16" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,499.37	635.83
<i>For Class 52 Rating, Deduct</i>	-278.96	
<i>For Class 54 Rating, Add</i>	190.20	
<i>For Class 55 Rating, Add</i>	422.75	
40 05 19 00-0262 EA 16" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,587.16	638.86
<i>For Class 52 Rating, Deduct</i>	-288.11	
<i>For Class 54 Rating, Add</i>	196.44	
<i>For Class 55 Rating, Add</i>	436.62	
40 05 19 00-0263 EA 16" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,674.95	641.89
<i>For Class 52 Rating, Deduct</i>	-297.26	
<i>For Class 54 Rating, Add</i>	202.68	
<i>For Class 55 Rating, Add</i>	450.49	
40 05 19 00-0264 EA 16" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,762.73	644.91
<i>For Class 52 Rating, Deduct</i>	-306.42	
<i>For Class 54 Rating, Add</i>	208.92	
<i>For Class 55 Rating, Add</i>	464.36	
40 05 19 00-0265 EA 16" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,850.52	647.94
<i>For Class 52 Rating, Deduct</i>	-315.57	
<i>For Class 54 Rating, Add</i>	215.16	
<i>For Class 55 Rating, Add</i>	478.23	
40 05 19 00-0266 EA 16" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,938.31	650.96
<i>For Class 52 Rating, Deduct</i>	-324.72	
<i>For Class 54 Rating, Add</i>	221.40	
<i>For Class 55 Rating, Add</i>	492.10	
40 05 19 00-0267 EA 16" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,026.09	653.99
<i>For Class 52 Rating, Deduct</i>	-333.87	
<i>For Class 54 Rating, Add</i>	227.64	
<i>For Class 55 Rating, Add</i>	505.97	
40 05 19 00-0268 EA 16" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,113.88	657.02
<i>For Class 52 Rating, Deduct</i>	-343.02	
<i>For Class 54 Rating, Add</i>	233.88	
<i>For Class 55 Rating, Add</i>	519.84	
40 05 19 00-0269 EA 16" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,201.67	660.05
<i>For Class 52 Rating, Deduct</i>	-352.18	
<i>For Class 54 Rating, Add</i>	240.12	
<i>For Class 55 Rating, Add</i>	533.71	
40 05 19 00-0270 EA 16" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,289.47	663.08
<i>For Class 52 Rating, Deduct</i>	-361.33	
<i>For Class 54 Rating, Add</i>	246.36	
<i>For Class 55 Rating, Add</i>	547.58	
40 05 19 00-0271 EA 16" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,377.25	666.10
<i>For Class 52 Rating, Deduct</i>	-370.48	
<i>For Class 54 Rating, Add</i>	252.60	
<i>For Class 55 Rating, Add</i>	561.45	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0272	EA		16" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,465.04	669.13
			<i>For Class 52 Rating, Deduct</i>	-379.63	
			<i>For Class 54 Rating, Add</i>	258.84	
			<i>For Class 55 Rating, Add</i>	575.32	
40 05 19 00-0273	EA		16" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,552.83	672.16
			<i>For Class 52 Rating, Deduct</i>	-388.78	
			<i>For Class 54 Rating, Add</i>	265.08	
			<i>For Class 55 Rating, Add</i>	589.18	
40 05 19 00-0274	EA		16" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,640.61	675.19
			<i>For Class 52 Rating, Deduct</i>	-397.94	
			<i>For Class 54 Rating, Add</i>	271.32	
			<i>For Class 55 Rating, Add</i>	603.05	
40 05 19 00-0275	EA		16" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,728.40	678.22
			<i>For Class 52 Rating, Deduct</i>	-407.09	
			<i>For Class 54 Rating, Add</i>	277.56	
			<i>For Class 55 Rating, Add</i>	616.92	
40 05 19 00-0276	EA		16" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,816.19	681.25
			<i>For Class 52 Rating, Deduct</i>	-416.24	
			<i>For Class 54 Rating, Add</i>	283.80	
			<i>For Class 55 Rating, Add</i>	630.79	
40 05 19 00-0277	EA		16" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,903.98	684.27
			<i>For Class 52 Rating, Deduct</i>	-425.39	
			<i>For Class 54 Rating, Add</i>	290.04	
			<i>For Class 55 Rating, Add</i>	644.66	
40 05 19 00-0278	EA		16" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,991.76	687.30
			<i>For Class 52 Rating, Deduct</i>	-434.54	
			<i>For Class 54 Rating, Add</i>	296.28	
			<i>For Class 55 Rating, Add</i>	658.53	
40 05 19 00-0279	EA		16" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,079.55	690.32
			<i>For Class 52 Rating, Deduct</i>	-443.70	
			<i>For Class 54 Rating, Add</i>	302.52	
			<i>For Class 55 Rating, Add</i>	672.40	
40 05 19 00-0280	EA		16" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,167.34	693.35
			<i>For Class 52 Rating, Deduct</i>	-452.85	
			<i>For Class 54 Rating, Add</i>	308.76	
			<i>For Class 55 Rating, Add</i>	686.27	
40 05 19 00-0281			18" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0282	EA		18" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,216.73	655.20
			<i>For Class 52 Rating, Deduct</i>	-134.64	
			<i>For Class 54 Rating, Add</i>	91.80	
			<i>For Class 55 Rating, Add</i>	204.04	
40 05 19 00-0283	EA		18" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,317.32	658.23
			<i>For Class 52 Rating, Deduct</i>	-145.20	
			<i>For Class 54 Rating, Add</i>	99.00	
			<i>For Class 55 Rating, Add</i>	220.04	
40 05 19 00-0284	EA		18" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,417.91	661.26
			<i>For Class 52 Rating, Deduct</i>	-155.76	
			<i>For Class 54 Rating, Add</i>	106.20	
			<i>For Class 55 Rating, Add</i>	236.05	
40 05 19 00-0285	EA		18" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,518.50	664.29
			<i>For Class 52 Rating, Deduct</i>	-166.32	
			<i>For Class 54 Rating, Add</i>	113.40	
			<i>For Class 55 Rating, Add</i>	252.05	
40 05 19 00-0286	EA		18" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,619.08	667.32
			<i>For Class 52 Rating, Deduct</i>	-176.88	
			<i>For Class 54 Rating, Add</i>	120.60	
			<i>For Class 55 Rating, Add</i>	268.05	
40 05 19 00-0287	EA		18" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,719.67	670.35
			<i>For Class 52 Rating, Deduct</i>	-187.44	
			<i>For Class 54 Rating, Add</i>	127.80	
			<i>For Class 55 Rating, Add</i>	284.06	
40 05 19 00-0288	EA		18" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,820.26	673.38
			<i>For Class 52 Rating, Deduct</i>	-198.00	
			<i>For Class 54 Rating, Add</i>	135.00	
			<i>For Class 55 Rating, Add</i>	300.06	
40 05 19 00-0289	EA		18" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,920.84	676.39
			<i>For Class 52 Rating, Deduct</i>	-208.56	
			<i>For Class 54 Rating, Add</i>	142.20	
			<i>For Class 55 Rating, Add</i>	316.06	
40 05 19 00-0290	EA		18" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,021.43	679.42
			<i>For Class 52 Rating, Deduct</i>	-219.12	
			<i>For Class 54 Rating, Add</i>	149.40	
			<i>For Class 55 Rating, Add</i>	332.07	
40 05 19 00-0291	EA		18" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,122.02	682.45
			<i>For Class 52 Rating, Deduct</i>	-229.68	
			<i>For Class 54 Rating, Add</i>	156.60	
			<i>For Class 55 Rating, Add</i>	348.07	
40 05 19 00-0292	EA		18" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,222.60	685.48
			<i>For Class 52 Rating, Deduct</i>	-240.24	
			<i>For Class 54 Rating, Add</i>	163.80	
			<i>For Class 55 Rating, Add</i>	364.07	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0293 EA 18" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,323.19	688.51
<i>For Class 52 Rating, Deduct</i>	-250.80	
<i>For Class 54 Rating, Add</i>	171.00	
<i>For Class 55 Rating, Add</i>	380.08	
40 05 19 00-0294 EA 18" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,423.78	691.54
<i>For Class 52 Rating, Deduct</i>	-261.36	
<i>For Class 54 Rating, Add</i>	178.20	
<i>For Class 55 Rating, Add</i>	396.08	
40 05 19 00-0295 EA 18" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,524.38	694.57
<i>For Class 52 Rating, Deduct</i>	-271.92	
<i>For Class 54 Rating, Add</i>	185.40	
<i>For Class 55 Rating, Add</i>	412.08	
40 05 19 00-0296 EA 18" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,624.96	697.59
<i>For Class 52 Rating, Deduct</i>	-282.48	
<i>For Class 54 Rating, Add</i>	192.60	
<i>For Class 55 Rating, Add</i>	428.09	
40 05 19 00-0297 EA 18" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,725.55	700.62
<i>For Class 52 Rating, Deduct</i>	-293.04	
<i>For Class 54 Rating, Add</i>	199.80	
<i>For Class 55 Rating, Add</i>	444.09	
40 05 19 00-0298 EA 18" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,826.14	703.65
<i>For Class 52 Rating, Deduct</i>	-303.60	
<i>For Class 54 Rating, Add</i>	207.00	
<i>For Class 55 Rating, Add</i>	460.09	
40 05 19 00-0299 EA 18" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,926.72	706.68
<i>For Class 52 Rating, Deduct</i>	-314.16	
<i>For Class 54 Rating, Add</i>	214.20	
<i>For Class 55 Rating, Add</i>	476.10	
40 05 19 00-0300 EA 18" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,027.31	709.70
<i>For Class 52 Rating, Deduct</i>	-324.72	
<i>For Class 54 Rating, Add</i>	221.40	
<i>For Class 55 Rating, Add</i>	492.10	
40 05 19 00-0301 EA 18" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,127.90	712.73
<i>For Class 52 Rating, Deduct</i>	-335.28	
<i>For Class 54 Rating, Add</i>	228.60	
<i>For Class 55 Rating, Add</i>	508.10	
40 05 19 00-0302 EA 18" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,228.49	715.76
<i>For Class 52 Rating, Deduct</i>	-345.84	
<i>For Class 54 Rating, Add</i>	235.80	
<i>For Class 55 Rating, Add</i>	524.10	
40 05 19 00-0303 EA 18" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,329.07	718.79
<i>For Class 52 Rating, Deduct</i>	-356.40	
<i>For Class 54 Rating, Add</i>	243.00	
<i>For Class 55 Rating, Add</i>	540.11	
40 05 19 00-0304 EA 18" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,429.66	721.81
<i>For Class 52 Rating, Deduct</i>	-366.96	
<i>For Class 54 Rating, Add</i>	250.20	
<i>For Class 55 Rating, Add</i>	556.11	
40 05 19 00-0305 EA 18" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,530.25	724.84
<i>For Class 52 Rating, Deduct</i>	-377.52	
<i>For Class 54 Rating, Add</i>	257.40	
<i>For Class 55 Rating, Add</i>	572.11	
40 05 19 00-0306 EA 18" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,630.83	727.87
<i>For Class 52 Rating, Deduct</i>	-388.08	
<i>For Class 54 Rating, Add</i>	264.60	
<i>For Class 55 Rating, Add</i>	588.12	
40 05 19 00-0307 EA 18" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,731.42	730.90
<i>For Class 52 Rating, Deduct</i>	-398.64	
<i>For Class 54 Rating, Add</i>	271.80	
<i>For Class 55 Rating, Add</i>	604.12	
40 05 19 00-0308 EA 18" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,832.01	733.93
<i>For Class 52 Rating, Deduct</i>	-409.20	
<i>For Class 54 Rating, Add</i>	279.00	
<i>For Class 55 Rating, Add</i>	620.12	
40 05 19 00-0309 EA 18" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,932.60	736.96
<i>For Class 52 Rating, Deduct</i>	-419.76	
<i>For Class 54 Rating, Add</i>	286.20	
<i>For Class 55 Rating, Add</i>	636.13	
40 05 19 00-0310 EA 18" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,033.18	739.99
<i>For Class 52 Rating, Deduct</i>	-430.32	
<i>For Class 54 Rating, Add</i>	293.40	
<i>For Class 55 Rating, Add</i>	652.13	
40 05 19 00-0311 EA 18" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,133.77	743.00
<i>For Class 52 Rating, Deduct</i>	-440.88	
<i>For Class 54 Rating, Add</i>	300.60	
<i>For Class 55 Rating, Add</i>	668.13	
40 05 19 00-0312 EA 18" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,234.36	746.03
<i>For Class 52 Rating, Deduct</i>	-451.44	
<i>For Class 54 Rating, Add</i>	307.80	
<i>For Class 55 Rating, Add</i>	684.14	
40 05 19 00-0313 EA 18" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,334.94	749.06
<i>For Class 52 Rating, Deduct</i>	-462.00	
<i>For Class 54 Rating, Add</i>	315.00	
<i>For Class 55 Rating, Add</i>	700.14	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0314	EA		18" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,435.53	752.09
			<i>For Class 52 Rating, Deduct</i>	-472.56	
			<i>For Class 54 Rating, Add</i>	322.20	
			<i>For Class 55 Rating, Add</i>	716.14	
40 05 19 00-0315	EA		18" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,536.12	755.12
			<i>For Class 52 Rating, Deduct</i>	-483.12	
			<i>For Class 54 Rating, Add</i>	329.40	
			<i>For Class 55 Rating, Add</i>	732.15	
40 05 19 00-0316	EA		18" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,636.71	758.15
			<i>For Class 52 Rating, Deduct</i>	-493.68	
			<i>For Class 54 Rating, Add</i>	336.60	
			<i>For Class 55 Rating, Add</i>	748.15	
40 05 19 00-0317	EA		18" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,737.29	761.18
			<i>For Class 52 Rating, Deduct</i>	-504.24	
			<i>For Class 54 Rating, Add</i>	343.80	
			<i>For Class 55 Rating, Add</i>	764.15	
40 05 19 00-0318	EA		18" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,837.88	764.21
			<i>For Class 52 Rating, Deduct</i>	-514.80	
			<i>For Class 54 Rating, Add</i>	351.00	
			<i>For Class 55 Rating, Add</i>	780.16	
40 05 19 00-0319	EA		18" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,938.47	767.23
			<i>For Class 52 Rating, Deduct</i>	-525.36	
			<i>For Class 54 Rating, Add</i>	358.20	
			<i>For Class 55 Rating, Add</i>	796.16	
40 05 19 00-0320			20" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0321	EA		20" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,580.32	747.86
			<i>For Class 52 Rating, Deduct</i>	-159.19	
			<i>For Class 54 Rating, Add</i>	108.54	
			<i>For Class 55 Rating, Add</i>	241.25	
40 05 19 00-0322	EA		20" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,695.30	750.88
			<i>For Class 52 Rating, Deduct</i>	-171.34	
			<i>For Class 54 Rating, Add</i>	116.82	
			<i>For Class 55 Rating, Add</i>	259.65	
40 05 19 00-0323	EA		20" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,810.29	753.91
			<i>For Class 52 Rating, Deduct</i>	-183.48	
			<i>For Class 54 Rating, Add</i>	125.10	
			<i>For Class 55 Rating, Add</i>	278.06	
40 05 19 00-0324	EA		20" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,925.28	756.93
			<i>For Class 52 Rating, Deduct</i>	-195.62	
			<i>For Class 54 Rating, Add</i>	133.38	
			<i>For Class 55 Rating, Add</i>	296.46	
40 05 19 00-0325	EA		20" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,040.26	759.96
			<i>For Class 52 Rating, Deduct</i>	-207.77	
			<i>For Class 54 Rating, Add</i>	141.66	
			<i>For Class 55 Rating, Add</i>	314.86	
40 05 19 00-0326	EA		20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,155.25	762.99
			<i>For Class 52 Rating, Deduct</i>	-219.91	
			<i>For Class 54 Rating, Add</i>	149.94	
			<i>For Class 55 Rating, Add</i>	333.27	
40 05 19 00-0327	EA		20" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,270.24	766.02
			<i>For Class 52 Rating, Deduct</i>	-232.06	
			<i>For Class 54 Rating, Add</i>	158.22	
			<i>For Class 55 Rating, Add</i>	351.67	
40 05 19 00-0328	EA		20" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,385.22	769.05
			<i>For Class 52 Rating, Deduct</i>	-244.20	
			<i>For Class 54 Rating, Add</i>	166.50	
			<i>For Class 55 Rating, Add</i>	370.07	
40 05 19 00-0329	EA		20" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,500.21	772.08
			<i>For Class 52 Rating, Deduct</i>	-256.34	
			<i>For Class 54 Rating, Add</i>	174.78	
			<i>For Class 55 Rating, Add</i>	388.48	
40 05 19 00-0330	EA		20" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,615.20	775.11
			<i>For Class 52 Rating, Deduct</i>	-268.49	
			<i>For Class 54 Rating, Add</i>	183.06	
			<i>For Class 55 Rating, Add</i>	406.88	
40 05 19 00-0331	EA		20" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,730.19	778.13
			<i>For Class 52 Rating, Deduct</i>	-280.63	
			<i>For Class 54 Rating, Add</i>	191.34	
			<i>For Class 55 Rating, Add</i>	425.29	
40 05 19 00-0332	EA		20" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,845.17	781.16
			<i>For Class 52 Rating, Deduct</i>	-292.78	
			<i>For Class 54 Rating, Add</i>	199.62	
			<i>For Class 55 Rating, Add</i>	443.69	
40 05 19 00-0333	EA		20" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,960.16	784.18
			<i>For Class 52 Rating, Deduct</i>	-304.92	
			<i>For Class 54 Rating, Add</i>	207.90	
			<i>For Class 55 Rating, Add</i>	462.09	
40 05 19 00-0334	EA		20" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,075.15	787.21
			<i>For Class 52 Rating, Deduct</i>	-317.06	
			<i>For Class 54 Rating, Add</i>	216.18	
			<i>For Class 55 Rating, Add</i>	480.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0335 EA 20" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,190.13	790.24
<i>For Class 52 Rating, Deduct</i>	-329.21	
<i>For Class 54 Rating, Add</i>	224.46	
<i>For Class 55 Rating, Add</i>	498.90	
40 05 19 00-0336 EA 20" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,305.12	793.27
<i>For Class 52 Rating, Deduct</i>	-341.35	
<i>For Class 54 Rating, Add</i>	232.74	
<i>For Class 55 Rating, Add</i>	517.30	
40 05 19 00-0337 EA 20" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,420.11	796.30
<i>For Class 52 Rating, Deduct</i>	-353.50	
<i>For Class 54 Rating, Add</i>	241.02	
<i>For Class 55 Rating, Add</i>	535.71	
40 05 19 00-0338 EA 20" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,535.10	799.33
<i>For Class 52 Rating, Deduct</i>	-365.64	
<i>For Class 54 Rating, Add</i>	249.30	
<i>For Class 55 Rating, Add</i>	554.11	
40 05 19 00-0339 EA 20" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,650.08	802.35
<i>For Class 52 Rating, Deduct</i>	-377.78	
<i>For Class 54 Rating, Add</i>	257.58	
<i>For Class 55 Rating, Add</i>	572.51	
40 05 19 00-0340 EA 20" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,765.07	805.38
<i>For Class 52 Rating, Deduct</i>	-389.93	
<i>For Class 54 Rating, Add</i>	265.86	
<i>For Class 55 Rating, Add</i>	590.92	
40 05 19 00-0341 EA 20" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,880.06	808.41
<i>For Class 52 Rating, Deduct</i>	-402.07	
<i>For Class 54 Rating, Add</i>	274.14	
<i>For Class 55 Rating, Add</i>	609.32	
40 05 19 00-0342 EA 20" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,995.04	811.44
<i>For Class 52 Rating, Deduct</i>	-414.22	
<i>For Class 54 Rating, Add</i>	282.42	
<i>For Class 55 Rating, Add</i>	627.73	
40 05 19 00-0343 EA 20" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,110.03	814.47
<i>For Class 52 Rating, Deduct</i>	-426.36	
<i>For Class 54 Rating, Add</i>	290.70	
<i>For Class 55 Rating, Add</i>	646.13	
40 05 19 00-0344 EA 20" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,225.03	817.49
<i>For Class 52 Rating, Deduct</i>	-438.50	
<i>For Class 54 Rating, Add</i>	298.98	
<i>For Class 55 Rating, Add</i>	664.53	
40 05 19 00-0345 EA 20" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,340.02	820.52
<i>For Class 52 Rating, Deduct</i>	-450.65	
<i>For Class 54 Rating, Add</i>	307.26	
<i>For Class 55 Rating, Add</i>	682.94	
40 05 19 00-0346 EA 20" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,455.00	823.54
<i>For Class 52 Rating, Deduct</i>	-462.79	
<i>For Class 54 Rating, Add</i>	315.54	
<i>For Class 55 Rating, Add</i>	701.34	
40 05 19 00-0347 EA 20" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,569.99	826.57
<i>For Class 52 Rating, Deduct</i>	-474.94	
<i>For Class 54 Rating, Add</i>	323.82	
<i>For Class 55 Rating, Add</i>	719.74	
40 05 19 00-0348 EA 20" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,684.98	829.60
<i>For Class 52 Rating, Deduct</i>	-487.08	
<i>For Class 54 Rating, Add</i>	332.10	
<i>For Class 55 Rating, Add</i>	738.15	
40 05 19 00-0349 EA 20" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,799.96	832.63
<i>For Class 52 Rating, Deduct</i>	-499.22	
<i>For Class 54 Rating, Add</i>	340.38	
<i>For Class 55 Rating, Add</i>	756.55	
40 05 19 00-0350 EA 20" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,914.95	835.66
<i>For Class 52 Rating, Deduct</i>	-511.37	
<i>For Class 54 Rating, Add</i>	348.66	
<i>For Class 55 Rating, Add</i>	774.95	
40 05 19 00-0351 EA 20" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,029.94	838.69
<i>For Class 52 Rating, Deduct</i>	-523.51	
<i>For Class 54 Rating, Add</i>	356.94	
<i>For Class 55 Rating, Add</i>	793.36	
40 05 19 00-0352 EA 20" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,144.93	841.72
<i>For Class 52 Rating, Deduct</i>	-535.66	
<i>For Class 54 Rating, Add</i>	365.22	
<i>For Class 55 Rating, Add</i>	811.76	
40 05 19 00-0353 EA 20" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,259.91	844.75
<i>For Class 52 Rating, Deduct</i>	-547.80	
<i>For Class 54 Rating, Add</i>	373.50	
<i>For Class 55 Rating, Add</i>	830.17	
40 05 19 00-0354 EA 20" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,374.90	847.77
<i>For Class 52 Rating, Deduct</i>	-559.94	
<i>For Class 54 Rating, Add</i>	381.78	
<i>For Class 55 Rating, Add</i>	848.57	
40 05 19 00-0355 EA 20" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,489.89	850.79
<i>For Class 52 Rating, Deduct</i>	-572.09	
<i>For Class 54 Rating, Add</i>	390.06	
<i>For Class 55 Rating, Add</i>	866.97	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0356	EA		20" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,604.87	853.82
			<i>For Class 52 Rating, Deduct</i>	-584.23	
			<i>For Class 54 Rating, Add</i>	398.34	
			<i>For Class 55 Rating, Add</i>	885.38	
40 05 19 00-0357	EA		20" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,719.86	856.85
			<i>For Class 52 Rating, Deduct</i>	-596.38	
			<i>For Class 54 Rating, Add</i>	406.62	
			<i>For Class 55 Rating, Add</i>	903.78	
40 05 19 00-0358	EA		20" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,834.85	859.88
			<i>For Class 52 Rating, Deduct</i>	-608.52	
			<i>For Class 54 Rating, Add</i>	414.90	
			<i>For Class 55 Rating, Add</i>	922.18	
40 05 19 00-0359			24" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0360	EA		24" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,145.95	884.10
			<i>For Class 52 Rating, Deduct</i>	-198.70	
			<i>For Class 54 Rating, Add</i>	135.48	
			<i>For Class 55 Rating, Add</i>	301.13	
40 05 19 00-0361	EA		24" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,287.33	887.13
			<i>For Class 52 Rating, Deduct</i>	-213.75	
			<i>For Class 54 Rating, Add</i>	145.74	
			<i>For Class 55 Rating, Add</i>	323.93	
40 05 19 00-0362	EA		24" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,428.72	890.16
			<i>For Class 52 Rating, Deduct</i>	-228.80	
			<i>For Class 54 Rating, Add</i>	156.00	
			<i>For Class 55 Rating, Add</i>	346.74	
40 05 19 00-0363	EA		24" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,570.12	893.18
			<i>For Class 52 Rating, Deduct</i>	-243.85	
			<i>For Class 54 Rating, Add</i>	166.26	
			<i>For Class 55 Rating, Add</i>	369.54	
40 05 19 00-0364	EA		24" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,711.50	896.21
			<i>For Class 52 Rating, Deduct</i>	-258.90	
			<i>For Class 54 Rating, Add</i>	176.52	
			<i>For Class 55 Rating, Add</i>	392.35	
40 05 19 00-0365	EA		24" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,852.89	899.24
			<i>For Class 52 Rating, Deduct</i>	-273.94	
			<i>For Class 54 Rating, Add</i>	186.78	
			<i>For Class 55 Rating, Add</i>	415.15	
40 05 19 00-0366	EA		24" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,994.28	902.27
			<i>For Class 52 Rating, Deduct</i>	-288.99	
			<i>For Class 54 Rating, Add</i>	197.04	
			<i>For Class 55 Rating, Add</i>	437.95	
40 05 19 00-0367	EA		24" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,135.66	905.30
			<i>For Class 52 Rating, Deduct</i>	-304.04	
			<i>For Class 54 Rating, Add</i>	207.30	
			<i>For Class 55 Rating, Add</i>	460.76	
40 05 19 00-0368	EA		24" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,277.05	908.33
			<i>For Class 52 Rating, Deduct</i>	-319.09	
			<i>For Class 54 Rating, Add</i>	217.56	
			<i>For Class 55 Rating, Add</i>	483.56	
40 05 19 00-0369	EA		24" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,418.44	911.36
			<i>For Class 52 Rating, Deduct</i>	-334.14	
			<i>For Class 54 Rating, Add</i>	227.82	
			<i>For Class 55 Rating, Add</i>	506.37	
40 05 19 00-0370	EA		24" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,559.83	914.38
			<i>For Class 52 Rating, Deduct</i>	-349.18	
			<i>For Class 54 Rating, Add</i>	238.08	
			<i>For Class 55 Rating, Add</i>	529.17	
40 05 19 00-0371	EA		24" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,701.21	917.40
			<i>For Class 52 Rating, Deduct</i>	-364.23	
			<i>For Class 54 Rating, Add</i>	248.34	
			<i>For Class 55 Rating, Add</i>	551.98	
40 05 19 00-0372	EA		24" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,842.60	920.43
			<i>For Class 52 Rating, Deduct</i>	-379.28	
			<i>For Class 54 Rating, Add</i>	258.60	
			<i>For Class 55 Rating, Add</i>	574.78	
40 05 19 00-0373	EA		24" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,983.99	923.46
			<i>For Class 52 Rating, Deduct</i>	-394.33	
			<i>For Class 54 Rating, Add</i>	268.86	
			<i>For Class 55 Rating, Add</i>	597.59	
40 05 19 00-0374	EA		24" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,125.37	926.49
			<i>For Class 52 Rating, Deduct</i>	-409.38	
			<i>For Class 54 Rating, Add</i>	279.12	
			<i>For Class 55 Rating, Add</i>	620.39	
40 05 19 00-0375	EA		24" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,266.76	929.52
			<i>For Class 52 Rating, Deduct</i>	-424.42	
			<i>For Class 54 Rating, Add</i>	289.38	
			<i>For Class 55 Rating, Add</i>	643.20	
40 05 19 00-0376	EA		24" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,408.15	932.55
			<i>For Class 52 Rating, Deduct</i>	-439.47	
			<i>For Class 54 Rating, Add</i>	299.64	
			<i>For Class 55 Rating, Add</i>	666.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0377 EA 24" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,549.54	935.58
<i>For Class 52 Rating, Deduct</i>	-454.52	
<i>For Class 54 Rating, Add</i>	309.90	
<i>For Class 55 Rating, Add</i>	688.80	
40 05 19 00-0378 EA 24" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,690.92	938.60
<i>For Class 52 Rating, Deduct</i>	-469.57	
<i>For Class 54 Rating, Add</i>	320.16	
<i>For Class 55 Rating, Add</i>	711.61	
40 05 19 00-0379 EA 24" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,832.31	941.63
<i>For Class 52 Rating, Deduct</i>	-484.62	
<i>For Class 54 Rating, Add</i>	330.42	
<i>For Class 55 Rating, Add</i>	734.41	
40 05 19 00-0380 EA 24" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,973.70	944.66
<i>For Class 52 Rating, Deduct</i>	-499.66	
<i>For Class 54 Rating, Add</i>	340.68	
<i>For Class 55 Rating, Add</i>	757.22	
40 05 19 00-0381 EA 24" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,115.08	947.69
<i>For Class 52 Rating, Deduct</i>	-514.71	
<i>For Class 54 Rating, Add</i>	350.94	
<i>For Class 55 Rating, Add</i>	780.02	
40 05 19 00-0382 EA 24" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,256.47	950.71
<i>For Class 52 Rating, Deduct</i>	-529.76	
<i>For Class 54 Rating, Add</i>	361.20	
<i>For Class 55 Rating, Add</i>	802.83	
40 05 19 00-0383 EA 24" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,397.86	953.74
<i>For Class 52 Rating, Deduct</i>	-544.81	
<i>For Class 54 Rating, Add</i>	371.46	
<i>For Class 55 Rating, Add</i>	825.63	
40 05 19 00-0384 EA 24" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,539.25	956.77
<i>For Class 52 Rating, Deduct</i>	-559.86	
<i>For Class 54 Rating, Add</i>	381.72	
<i>For Class 55 Rating, Add</i>	848.44	
40 05 19 00-0385 EA 24" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,680.63	959.79
<i>For Class 52 Rating, Deduct</i>	-574.90	
<i>For Class 54 Rating, Add</i>	391.98	
<i>For Class 55 Rating, Add</i>	871.24	
40 05 19 00-0386 EA 24" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,822.02	962.82
<i>For Class 52 Rating, Deduct</i>	-589.95	
<i>For Class 54 Rating, Add</i>	402.24	
<i>For Class 55 Rating, Add</i>	894.05	
40 05 19 00-0387 EA 24" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,963.41	965.85
<i>For Class 52 Rating, Deduct</i>	-605.00	
<i>For Class 54 Rating, Add</i>	412.50	
<i>For Class 55 Rating, Add</i>	916.85	
40 05 19 00-0388 EA 24" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,104.79	968.88
<i>For Class 52 Rating, Deduct</i>	-620.05	
<i>For Class 54 Rating, Add</i>	422.76	
<i>For Class 55 Rating, Add</i>	939.65	
40 05 19 00-0389 EA 24" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,324.17	1,023.38
<i>For Class 52 Rating, Deduct</i>	-635.10	
<i>For Class 54 Rating, Add</i>	433.02	
<i>For Class 55 Rating, Add</i>	962.46	
40 05 19 00-0390 EA 24" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,465.56	1,026.40
<i>For Class 52 Rating, Deduct</i>	-650.14	
<i>For Class 54 Rating, Add</i>	443.28	
<i>For Class 55 Rating, Add</i>	985.26	
40 05 19 00-0391 EA 24" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,606.95	1,029.43
<i>For Class 52 Rating, Deduct</i>	-665.19	
<i>For Class 54 Rating, Add</i>	453.54	
<i>For Class 55 Rating, Add</i>	1,008.07	
40 05 19 00-0392 EA 24" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,748.33	1,032.46
<i>For Class 52 Rating, Deduct</i>	-680.24	
<i>For Class 54 Rating, Add</i>	463.80	
<i>For Class 55 Rating, Add</i>	1,030.87	
40 05 19 00-0393 EA 24" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,889.72	1,035.49
<i>For Class 52 Rating, Deduct</i>	-695.29	
<i>For Class 54 Rating, Add</i>	474.06	
<i>For Class 55 Rating, Add</i>	1,053.68	
40 05 19 00-0394 EA 24" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,031.11	1,038.52
<i>For Class 52 Rating, Deduct</i>	-710.34	
<i>For Class 54 Rating, Add</i>	484.32	
<i>For Class 55 Rating, Add</i>	1,076.48	
40 05 19 00-0395 EA 24" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,172.49	1,041.55
<i>For Class 52 Rating, Deduct</i>	-725.38	
<i>For Class 54 Rating, Add</i>	494.58	
<i>For Class 55 Rating, Add</i>	1,099.29	
40 05 19 00-0396 EA 24" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,313.88	1,044.58
<i>For Class 52 Rating, Deduct</i>	-740.43	
<i>For Class 54 Rating, Add</i>	504.84	
<i>For Class 55 Rating, Add</i>	1,122.09	
40 05 19 00-0397 EA 24" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,455.27	1,047.61
<i>For Class 52 Rating, Deduct</i>	-755.48	
<i>For Class 54 Rating, Add</i>	515.10	
<i>For Class 55 Rating, Add</i>	1,144.90	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0398 30" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0399 EA 30" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,762.05	1,247.44
For Class 52 Rating, Deduct	-315.92	
For Class 54 Rating, Add	215.40	
For Class 55 Rating, Add	478.76	
40 05 19 00-0400 EA 30" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,964.23	1,250.46
For Class 52 Rating, Deduct	-337.66	
For Class 54 Rating, Add	230.22	
For Class 55 Rating, Add	511.70	
40 05 19 00-0401 EA 30" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,166.42	1,253.48
For Class 52 Rating, Deduct	-359.39	
For Class 54 Rating, Add	245.04	
For Class 55 Rating, Add	544.64	
40 05 19 00-0402 EA 30" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,368.61	1,256.51
For Class 52 Rating, Deduct	-381.13	
For Class 54 Rating, Add	259.86	
For Class 55 Rating, Add	577.58	
40 05 19 00-0403 EA 30" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,570.80	1,259.54
For Class 52 Rating, Deduct	-402.86	
For Class 54 Rating, Add	274.68	
For Class 55 Rating, Add	610.52	
40 05 19 00-0404 EA 30" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,772.98	1,262.57
For Class 52 Rating, Deduct	-424.60	
For Class 54 Rating, Add	289.50	
For Class 55 Rating, Add	643.46	
40 05 19 00-0405 EA 30" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,975.17	1,265.60
For Class 52 Rating, Deduct	-446.34	
For Class 54 Rating, Add	304.32	
For Class 55 Rating, Add	676.40	
40 05 19 00-0406 EA 30" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,177.36	1,268.63
For Class 52 Rating, Deduct	-468.07	
For Class 54 Rating, Add	319.14	
For Class 55 Rating, Add	709.34	
40 05 19 00-0407 EA 30" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,379.54	1,271.66
For Class 52 Rating, Deduct	-489.81	
For Class 54 Rating, Add	333.96	
For Class 55 Rating, Add	742.28	
40 05 19 00-0408 EA 30" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,581.73	1,274.68
For Class 52 Rating, Deduct	-511.54	
For Class 54 Rating, Add	348.78	
For Class 55 Rating, Add	775.22	
40 05 19 00-0409 EA 30" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,783.92	1,277.71
For Class 52 Rating, Deduct	-533.28	
For Class 54 Rating, Add	363.60	
For Class 55 Rating, Add	808.16	
40 05 19 00-0410 EA 30" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,986.11	1,280.74
For Class 52 Rating, Deduct	-555.02	
For Class 54 Rating, Add	378.42	
For Class 55 Rating, Add	841.10	
40 05 19 00-0411 EA 30" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,188.30	1,283.76
For Class 52 Rating, Deduct	-576.75	
For Class 54 Rating, Add	393.24	
For Class 55 Rating, Add	874.04	
40 05 19 00-0412 EA 30" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,390.49	1,286.79
For Class 52 Rating, Deduct	-598.49	
For Class 54 Rating, Add	408.06	
For Class 55 Rating, Add	906.98	
40 05 19 00-0413 EA 30" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,592.68	1,289.82
For Class 52 Rating, Deduct	-620.22	
For Class 54 Rating, Add	422.88	
For Class 55 Rating, Add	939.92	
40 05 19 00-0414 EA 30" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,794.86	1,292.85
For Class 52 Rating, Deduct	-641.96	
For Class 54 Rating, Add	437.70	
For Class 55 Rating, Add	972.86	
40 05 19 00-0415 EA 30" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,997.05	1,295.88
For Class 52 Rating, Deduct	-663.70	
For Class 54 Rating, Add	452.52	
For Class 55 Rating, Add	1,005.80	
40 05 19 00-0416 EA 30" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,199.24	1,298.90
For Class 52 Rating, Deduct	-685.43	
For Class 54 Rating, Add	467.34	
For Class 55 Rating, Add	1,038.74	
40 05 19 00-0417 EA 30" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,401.43	1,301.93
For Class 52 Rating, Deduct	-707.17	
For Class 54 Rating, Add	482.16	
For Class 55 Rating, Add	1,071.68	
40 05 19 00-0418 EA 30" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,603.61	1,304.96
For Class 52 Rating, Deduct	-728.90	
For Class 54 Rating, Add	496.98	
For Class 55 Rating, Add	1,104.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0419 EA 30" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,805.80	1,307.99
<i>For Class 52 Rating, Deduct</i>	-750.64	
<i>For Class 54 Rating, Add</i>	511.80	
<i>For Class 55 Rating, Add</i>	1,137.56	
40 05 19 00-0420 EA 30" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,007.99	1,311.02
<i>For Class 52 Rating, Deduct</i>	-772.38	
<i>For Class 54 Rating, Add</i>	526.62	
<i>For Class 55 Rating, Add</i>	1,170.50	
40 05 19 00-0421 EA 30" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,210.17	1,314.05
<i>For Class 52 Rating, Deduct</i>	-794.11	
<i>For Class 54 Rating, Add</i>	541.44	
<i>For Class 55 Rating, Add</i>	1,203.44	
40 05 19 00-0422 EA 30" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,412.36	1,317.07
<i>For Class 52 Rating, Deduct</i>	-815.85	
<i>For Class 54 Rating, Add</i>	556.26	
<i>For Class 55 Rating, Add</i>	1,236.38	
40 05 19 00-0423 EA 30" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,613.75	1,320.09
<i>For Class 52 Rating, Deduct</i>	-837.50	
<i>For Class 54 Rating, Add</i>	571.02	
<i>For Class 55 Rating, Add</i>	1,269.19	
40 05 19 00-0424 EA 30" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,816.74	1,323.12
<i>For Class 52 Rating, Deduct</i>	-859.32	
<i>For Class 54 Rating, Add</i>	585.90	
<i>For Class 55 Rating, Add</i>	1,302.26	
40 05 19 00-0425 EA 30" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,018.92	1,326.15
<i>For Class 52 Rating, Deduct</i>	-881.06	
<i>For Class 54 Rating, Add</i>	600.72	
<i>For Class 55 Rating, Add</i>	1,335.20	
40 05 19 00-0426 EA 30" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,221.11	1,329.18
<i>For Class 52 Rating, Deduct</i>	-902.79	
<i>For Class 54 Rating, Add</i>	615.54	
<i>For Class 55 Rating, Add</i>	1,368.14	
40 05 19 00-0427 EA 30" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,423.30	1,332.21
<i>For Class 52 Rating, Deduct</i>	-924.53	
<i>For Class 54 Rating, Add</i>	630.36	
<i>For Class 55 Rating, Add</i>	1,401.08	
40 05 19 00-0428 EA 30" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,625.48	1,335.24
<i>For Class 52 Rating, Deduct</i>	-946.26	
<i>For Class 54 Rating, Add</i>	645.18	
<i>For Class 55 Rating, Add</i>	1,434.02	
40 05 19 00-0429 EA 30" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,827.67	1,338.27
<i>For Class 52 Rating, Deduct</i>	-968.00	
<i>For Class 54 Rating, Add</i>	660.00	
<i>For Class 55 Rating, Add</i>	1,466.96	
40 05 19 00-0430 EA 30" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,029.86	1,341.30
<i>For Class 52 Rating, Deduct</i>	-989.74	
<i>For Class 54 Rating, Add</i>	674.82	
<i>For Class 55 Rating, Add</i>	1,499.90	
40 05 19 00-0431 EA 30" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,232.05	1,344.32
<i>For Class 52 Rating, Deduct</i>	-1,011.47	
<i>For Class 54 Rating, Add</i>	689.64	
<i>For Class 55 Rating, Add</i>	1,532.84	
40 05 19 00-0432 EA 30" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,434.23	1,347.35
<i>For Class 52 Rating, Deduct</i>	-1,033.21	
<i>For Class 54 Rating, Add</i>	704.46	
<i>For Class 55 Rating, Add</i>	1,565.78	
40 05 19 00-0433 EA 30" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,636.42	1,350.37
<i>For Class 52 Rating, Deduct</i>	-1,054.94	
<i>For Class 54 Rating, Add</i>	719.28	
<i>For Class 55 Rating, Add</i>	1,598.72	
40 05 19 00-0434 EA 30" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,838.61	1,353.40
<i>For Class 52 Rating, Deduct</i>	-1,076.68	
<i>For Class 54 Rating, Add</i>	734.10	
<i>For Class 55 Rating, Add</i>	1,631.66	
40 05 19 00-0435 EA 30" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,040.79	1,356.43
<i>For Class 52 Rating, Deduct</i>	-1,098.42	
<i>For Class 54 Rating, Add</i>	748.92	
<i>For Class 55 Rating, Add</i>	1,664.60	
40 05 19 00-0436 EA 30" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,242.99	1,359.46
<i>For Class 52 Rating, Deduct</i>	-1,120.15	
<i>For Class 54 Rating, Add</i>	763.74	
<i>For Class 55 Rating, Add</i>	1,697.54	
40 05 19 00-0437 36" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0438 EA 36" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,504.27	1,580.48
<i>For Class 52 Rating, Deduct</i>	-452.06	
<i>For Class 54 Rating, Add</i>	308.22	
<i>For Class 55 Rating, Add</i>	685.07	
40 05 19 00-0439 EA 36" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,777.66	1,583.51
<i>For Class 52 Rating, Deduct</i>	-481.62	
<i>For Class 54 Rating, Add</i>	328.38	
<i>For Class 55 Rating, Add</i>	729.88	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0440	EA		36" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,051.04	1,586.54
			<i>For Class 52 Rating, Deduct</i>	-511.19	
			<i>For Class 54 Rating, Add</i>	348.54	
			<i>For Class 55 Rating, Add</i>	774.69	
40 05 19 00-0441	EA		36" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,324.43	1,589.57
			<i>For Class 52 Rating, Deduct</i>	-540.76	
			<i>For Class 54 Rating, Add</i>	368.70	
			<i>For Class 55 Rating, Add</i>	819.50	
40 05 19 00-0442	EA		36" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,597.82	1,592.59
			<i>For Class 52 Rating, Deduct</i>	-570.33	
			<i>For Class 54 Rating, Add</i>	388.86	
			<i>For Class 55 Rating, Add</i>	864.31	
40 05 19 00-0443	EA		36" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,871.21	1,595.62
			<i>For Class 52 Rating, Deduct</i>	-599.90	
			<i>For Class 54 Rating, Add</i>	409.02	
			<i>For Class 55 Rating, Add</i>	909.12	
40 05 19 00-0444	EA		36" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,144.60	1,598.65
			<i>For Class 52 Rating, Deduct</i>	-629.46	
			<i>For Class 54 Rating, Add</i>	429.18	
			<i>For Class 55 Rating, Add</i>	953.92	
40 05 19 00-0445	EA		36" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,417.99	1,601.68
			<i>For Class 52 Rating, Deduct</i>	-659.03	
			<i>For Class 54 Rating, Add</i>	449.34	
			<i>For Class 55 Rating, Add</i>	998.73	
40 05 19 00-0446	EA		36" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,691.38	1,604.71
			<i>For Class 52 Rating, Deduct</i>	-688.60	
			<i>For Class 54 Rating, Add</i>	469.50	
			<i>For Class 55 Rating, Add</i>	1,043.54	
40 05 19 00-0447	EA		36" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,964.76	1,607.74
			<i>For Class 52 Rating, Deduct</i>	-718.17	
			<i>For Class 54 Rating, Add</i>	489.66	
			<i>For Class 55 Rating, Add</i>	1,088.35	
40 05 19 00-0448	EA		36" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,238.15	1,610.77
			<i>For Class 52 Rating, Deduct</i>	-747.74	
			<i>For Class 54 Rating, Add</i>	509.82	
			<i>For Class 55 Rating, Add</i>	1,133.16	
40 05 19 00-0449	EA		36" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,511.54	1,613.78
			<i>For Class 52 Rating, Deduct</i>	-777.30	
			<i>For Class 54 Rating, Add</i>	529.98	
			<i>For Class 55 Rating, Add</i>	1,177.97	
40 05 19 00-0450	EA		36" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,784.92	1,616.81
			<i>For Class 52 Rating, Deduct</i>	-806.87	
			<i>For Class 54 Rating, Add</i>	550.14	
			<i>For Class 55 Rating, Add</i>	1,222.78	
40 05 19 00-0451	EA		36" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,058.31	1,619.84
			<i>For Class 52 Rating, Deduct</i>	-836.44	
			<i>For Class 54 Rating, Add</i>	570.30	
			<i>For Class 55 Rating, Add</i>	1,267.59	
40 05 19 00-0452	EA		36" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,331.70	1,622.87
			<i>For Class 52 Rating, Deduct</i>	-866.01	
			<i>For Class 54 Rating, Add</i>	590.46	
			<i>For Class 55 Rating, Add</i>	1,312.40	
40 05 19 00-0453	EA		36" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,605.09	1,625.90
			<i>For Class 52 Rating, Deduct</i>	-895.58	
			<i>For Class 54 Rating, Add</i>	610.62	
			<i>For Class 55 Rating, Add</i>	1,357.20	
40 05 19 00-0454	EA		36" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,878.47	1,628.93
			<i>For Class 52 Rating, Deduct</i>	-925.14	
			<i>For Class 54 Rating, Add</i>	630.78	
			<i>For Class 55 Rating, Add</i>	1,402.01	
40 05 19 00-0455	EA		36" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,151.86	1,631.96
			<i>For Class 52 Rating, Deduct</i>	-954.71	
			<i>For Class 54 Rating, Add</i>	650.94	
			<i>For Class 55 Rating, Add</i>	1,446.82	
40 05 19 00-0456	EA		36" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,425.25	1,634.98
			<i>For Class 52 Rating, Deduct</i>	-984.28	
			<i>For Class 54 Rating, Add</i>	671.10	
			<i>For Class 55 Rating, Add</i>	1,491.63	
40 05 19 00-0457	EA		36" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,698.63	1,638.01
			<i>For Class 52 Rating, Deduct</i>	-1,013.85	
			<i>For Class 54 Rating, Add</i>	691.26	
			<i>For Class 55 Rating, Add</i>	1,536.44	
40 05 19 00-0458	EA		36" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,972.02	1,641.04
			<i>For Class 52 Rating, Deduct</i>	-1,043.42	
			<i>For Class 54 Rating, Add</i>	711.42	
			<i>For Class 55 Rating, Add</i>	1,581.25	
40 05 19 00-0459	EA		36" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,245.41	1,644.07
			<i>For Class 52 Rating, Deduct</i>	-1,072.98	
			<i>For Class 54 Rating, Add</i>	731.58	
			<i>For Class 55 Rating, Add</i>	1,626.06	
40 05 19 00-0460	EA		36" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,518.80	1,647.09
			<i>For Class 52 Rating, Deduct</i>	-1,102.55	
			<i>For Class 54 Rating, Add</i>	751.74	
			<i>For Class 55 Rating, Add</i>	1,670.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0461 EA 36" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,792.18	1,650.12
<i>For Class 52 Rating, Deduct</i>	-1,132.12	
<i>For Class 54 Rating, Add</i>	771.90	
<i>For Class 55 Rating, Add</i>	1,715.68	
40 05 19 00-0462 EA 36" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,065.57	1,653.15
<i>For Class 52 Rating, Deduct</i>	-1,161.69	
<i>For Class 54 Rating, Add</i>	792.06	
<i>For Class 55 Rating, Add</i>	1,760.49	
40 05 19 00-0463 EA 36" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,338.96	1,656.18
<i>For Class 52 Rating, Deduct</i>	-1,191.26	
<i>For Class 54 Rating, Add</i>	812.22	
<i>For Class 55 Rating, Add</i>	1,805.29	
40 05 19 00-0464 EA 36" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,612.34	1,659.20
<i>For Class 52 Rating, Deduct</i>	-1,220.82	
<i>For Class 54 Rating, Add</i>	832.38	
<i>For Class 55 Rating, Add</i>	1,850.10	
40 05 19 00-0465 EA 36" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,885.73	1,662.23
<i>For Class 52 Rating, Deduct</i>	-1,250.39	
<i>For Class 54 Rating, Add</i>	852.54	
<i>For Class 55 Rating, Add</i>	1,894.91	
40 05 19 00-0466 EA 36" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,159.12	1,665.26
<i>For Class 52 Rating, Deduct</i>	-1,279.96	
<i>For Class 54 Rating, Add</i>	872.70	
<i>For Class 55 Rating, Add</i>	1,939.72	
40 05 19 00-0467 EA 36" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,432.51	1,668.29
<i>For Class 52 Rating, Deduct</i>	-1,309.53	
<i>For Class 54 Rating, Add</i>	892.86	
<i>For Class 55 Rating, Add</i>	1,984.53	
40 05 19 00-0468 EA 36" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,705.90	1,671.32
<i>For Class 52 Rating, Deduct</i>	-1,339.10	
<i>For Class 54 Rating, Add</i>	913.02	
<i>For Class 55 Rating, Add</i>	2,029.34	
40 05 19 00-0469 EA 36" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,979.29	1,674.35
<i>For Class 52 Rating, Deduct</i>	-1,368.66	
<i>For Class 54 Rating, Add</i>	933.18	
<i>For Class 55 Rating, Add</i>	2,074.15	
40 05 19 00-0470 EA 36" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,252.68	1,677.38
<i>For Class 52 Rating, Deduct</i>	-1,398.23	
<i>For Class 54 Rating, Add</i>	953.34	
<i>For Class 55 Rating, Add</i>	2,118.96	
40 05 19 00-0471 EA 36" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,526.06	1,680.39
<i>For Class 52 Rating, Deduct</i>	-1,427.80	
<i>For Class 54 Rating, Add</i>	973.50	
<i>For Class 55 Rating, Add</i>	2,163.77	
40 05 19 00-0472 EA 36" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,799.45	1,683.42
<i>For Class 52 Rating, Deduct</i>	-1,457.37	
<i>For Class 54 Rating, Add</i>	993.66	
<i>For Class 55 Rating, Add</i>	2,208.57	
40 05 19 00-0473 EA 36" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,072.84	1,686.45
<i>For Class 52 Rating, Deduct</i>	-1,486.94	
<i>For Class 54 Rating, Add</i>	1,013.82	
<i>For Class 55 Rating, Add</i>	2,253.38	
40 05 19 00-0474 EA 36" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,346.23	1,689.48
<i>For Class 52 Rating, Deduct</i>	-1,516.50	
<i>For Class 54 Rating, Add</i>	1,033.98	
<i>For Class 55 Rating, Add</i>	2,298.19	
40 05 19 00-0475 EA 36" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,619.61	1,692.51
<i>For Class 52 Rating, Deduct</i>	-1,546.07	
<i>For Class 54 Rating, Add</i>	1,054.14	
<i>For Class 55 Rating, Add</i>	2,343.00	
40 05 19 00-0476 42" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0477 EA 42" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,500.98	1,992.26
<i>For Class 52 Rating, Deduct</i>	-603.06	
<i>For Class 54 Rating, Add</i>	411.18	
<i>For Class 55 Rating, Add</i>	913.92	
40 05 19 00-0478 EA 42" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,907.16	1,995.29
<i>For Class 52 Rating, Deduct</i>	-647.24	
<i>For Class 54 Rating, Add</i>	441.30	
<i>For Class 55 Rating, Add</i>	980.86	
40 05 19 00-0479 EA 42" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,308.55	1,998.31
<i>For Class 52 Rating, Deduct</i>	-690.89	
<i>For Class 54 Rating, Add</i>	471.06	
<i>For Class 55 Rating, Add</i>	1,047.01	
40 05 19 00-0480 EA 42" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,713.94	2,001.34
<i>For Class 52 Rating, Deduct</i>	-734.98	
<i>For Class 54 Rating, Add</i>	501.12	
<i>For Class 55 Rating, Add</i>	1,113.82	
40 05 19 00-0481 EA 42" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,115.32	2,004.37
<i>For Class 52 Rating, Deduct</i>	-778.62	
<i>For Class 54 Rating, Add</i>	530.88	
<i>For Class 55 Rating, Add</i>	1,179.97	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0482	EA		42" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,521.51	2,007.40
			<i>For Class 52 Rating, Deduct</i>	-822.80	
			<i>For Class 54 Rating, Add</i>	561.00	
			<i>For Class 55 Rating, Add</i>	1,246.92	
40 05 19 00-0483	EA		42" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,922.10	2,010.43
			<i>For Class 52 Rating, Deduct</i>	-866.36	
			<i>For Class 54 Rating, Add</i>	590.70	
			<i>For Class 55 Rating, Add</i>	1,312.93	
40 05 19 00-0484	EA		42" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,328.29	2,013.45
			<i>For Class 52 Rating, Deduct</i>	-910.54	
			<i>For Class 54 Rating, Add</i>	620.82	
			<i>For Class 55 Rating, Add</i>	1,379.88	
40 05 19 00-0485	EA		42" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,729.67	2,016.48
			<i>For Class 52 Rating, Deduct</i>	-954.18	
			<i>For Class 54 Rating, Add</i>	650.58	
			<i>For Class 55 Rating, Add</i>	1,446.02	
40 05 19 00-0486	EA		42" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,135.06	2,019.50
			<i>For Class 52 Rating, Deduct</i>	-998.27	
			<i>For Class 54 Rating, Add</i>	680.64	
			<i>For Class 55 Rating, Add</i>	1,512.84	
40 05 19 00-0487	EA		42" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,536.45	2,022.53
			<i>For Class 52 Rating, Deduct</i>	-1,041.92	
			<i>For Class 54 Rating, Add</i>	710.40	
			<i>For Class 55 Rating, Add</i>	1,578.98	
40 05 19 00-0488	EA		42" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,941.83	2,025.56
			<i>For Class 52 Rating, Deduct</i>	-1,086.01	
			<i>For Class 54 Rating, Add</i>	740.46	
			<i>For Class 55 Rating, Add</i>	1,645.80	
40 05 19 00-0489	EA		42" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,343.22	2,028.59
			<i>For Class 52 Rating, Deduct</i>	-1,129.66	
			<i>For Class 54 Rating, Add</i>	770.22	
			<i>For Class 55 Rating, Add</i>	1,711.94	
40 05 19 00-0490	EA		42" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,745.41	2,031.62
			<i>For Class 52 Rating, Deduct</i>	-1,173.39	
			<i>For Class 54 Rating, Add</i>	800.04	
			<i>For Class 55 Rating, Add</i>	1,778.22	
40 05 19 00-0491	EA		42" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,150.00	2,034.65
			<i>For Class 52 Rating, Deduct</i>	-1,217.39	
			<i>For Class 54 Rating, Add</i>	830.04	
			<i>For Class 55 Rating, Add</i>	1,844.90	
40 05 19 00-0492	EA		42" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,551.38	2,037.68
			<i>For Class 52 Rating, Deduct</i>	-1,261.04	
			<i>For Class 54 Rating, Add</i>	859.80	
			<i>For Class 55 Rating, Add</i>	1,911.05	
40 05 19 00-0493	EA		42" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,957.57	2,040.71
			<i>For Class 52 Rating, Deduct</i>	-1,305.22	
			<i>For Class 54 Rating, Add</i>	889.92	
			<i>For Class 55 Rating, Add</i>	1,978.00	
40 05 19 00-0494	EA		42" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,358.96	2,043.73
			<i>For Class 52 Rating, Deduct</i>	-1,348.86	
			<i>For Class 54 Rating, Add</i>	919.68	
			<i>For Class 55 Rating, Add</i>	2,044.14	
40 05 19 00-0495	EA		42" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,764.34	2,046.75
			<i>For Class 52 Rating, Deduct</i>	-1,392.95	
			<i>For Class 54 Rating, Add</i>	949.74	
			<i>For Class 55 Rating, Add</i>	2,110.96	
40 05 19 00-0496	EA		42" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,165.73	2,049.78
			<i>For Class 52 Rating, Deduct</i>	-1,436.60	
			<i>For Class 54 Rating, Add</i>	979.50	
			<i>For Class 55 Rating, Add</i>	2,177.10	
40 05 19 00-0497	EA		42" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,571.92	2,052.81
			<i>For Class 52 Rating, Deduct</i>	-1,480.78	
			<i>For Class 54 Rating, Add</i>	1,009.62	
			<i>For Class 55 Rating, Add</i>	2,244.05	
40 05 19 00-0498	EA		42" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,973.31	2,055.84
			<i>For Class 52 Rating, Deduct</i>	-1,524.42	
			<i>For Class 54 Rating, Add</i>	1,039.38	
			<i>For Class 55 Rating, Add</i>	2,310.20	
40 05 19 00-0499	EA		42" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,378.70	2,058.87
			<i>For Class 52 Rating, Deduct</i>	-1,568.51	
			<i>For Class 54 Rating, Add</i>	1,069.44	
			<i>For Class 55 Rating, Add</i>	2,377.01	
40 05 19 00-0500	EA		42" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,780.09	2,061.90
			<i>For Class 52 Rating, Deduct</i>	-1,612.16	
			<i>For Class 54 Rating, Add</i>	1,099.20	
			<i>For Class 55 Rating, Add</i>	2,443.16	
40 05 19 00-0501	EA		42" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,186.28	2,064.92
			<i>For Class 52 Rating, Deduct</i>	-1,656.34	
			<i>For Class 54 Rating, Add</i>	1,129.32	
			<i>For Class 55 Rating, Add</i>	2,510.10	
40 05 19 00-0502	EA		42" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,587.66	2,067.95
			<i>For Class 52 Rating, Deduct</i>	-1,699.98	
			<i>For Class 54 Rating, Add</i>	1,159.08	
			<i>For Class 55 Rating, Add</i>	2,576.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0503 EA 42" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,992.25	2,070.98
<i>For Class 52 Rating, Deduct</i>	-1,743.98	
<i>For Class 54 Rating, Add</i>	1,189.08	
<i>For Class 55 Rating, Add</i>	2,642.93	
40 05 19 00-0504 EA 42" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,394.44	2,074.01
<i>For Class 52 Rating, Deduct</i>	-1,787.72	
<i>For Class 54 Rating, Add</i>	1,218.90	
<i>For Class 55 Rating, Add</i>	2,709.21	
40 05 19 00-0505 EA 42" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,715.82	2,077.04
<i>For Class 52 Rating, Deduct</i>	-1,822.57	
<i>For Class 54 Rating, Add</i>	1,242.66	
<i>For Class 55 Rating, Add</i>	2,762.02	
40 05 19 00-0506 EA 42" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,201.21	2,080.06
<i>For Class 52 Rating, Deduct</i>	-1,875.46	
<i>For Class 54 Rating, Add</i>	1,278.72	
<i>For Class 55 Rating, Add</i>	2,842.17	
40 05 19 00-0507 EA 42" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,602.60	2,083.09
<i>For Class 52 Rating, Deduct</i>	-1,919.10	
<i>For Class 54 Rating, Add</i>	1,308.48	
<i>For Class 55 Rating, Add</i>	2,908.31	
40 05 19 00-0508 EA 42" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,007.99	2,086.11
<i>For Class 52 Rating, Deduct</i>	-1,963.19	
<i>For Class 54 Rating, Add</i>	1,338.54	
<i>For Class 55 Rating, Add</i>	2,975.13	
40 05 19 00-0509 EA 42" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,409.37	2,089.14
<i>For Class 52 Rating, Deduct</i>	-2,006.84	
<i>For Class 54 Rating, Add</i>	1,368.30	
<i>For Class 55 Rating, Add</i>	3,041.27	
40 05 19 00-0510 EA 42" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,815.56	2,092.17
<i>For Class 52 Rating, Deduct</i>	-2,051.02	
<i>For Class 54 Rating, Add</i>	1,398.42	
<i>For Class 55 Rating, Add</i>	3,108.22	
40 05 19 00-0511 EA 42" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,216.15	2,095.20
<i>For Class 52 Rating, Deduct</i>	-2,094.58	
<i>For Class 54 Rating, Add</i>	1,428.12	
<i>For Class 55 Rating, Add</i>	3,174.23	
40 05 19 00-0512 EA 42" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,622.33	2,098.23
<i>For Class 52 Rating, Deduct</i>	-2,138.75	
<i>For Class 54 Rating, Add</i>	1,458.24	
<i>For Class 55 Rating, Add</i>	3,241.18	
40 05 19 00-0513 EA 42" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,023.72	2,101.26
<i>For Class 52 Rating, Deduct</i>	-2,182.40	
<i>For Class 54 Rating, Add</i>	1,488.00	
<i>For Class 55 Rating, Add</i>	3,307.33	
40 05 19 00-0514 EA 42" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,429.11	2,104.29
<i>For Class 52 Rating, Deduct</i>	-2,226.49	
<i>For Class 54 Rating, Add</i>	1,518.06	
<i>For Class 55 Rating, Add</i>	3,374.14	
40 05 19 00-0515 48" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0516 EA 48" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,667.46	2,503.95
<i>For Class 52 Rating, Deduct</i>	-756.10	
<i>For Class 54 Rating, Add</i>	515.52	
<i>For Class 55 Rating, Add</i>	1,145.83	
40 05 19 00-0517 EA 48" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,256.84	2,506.98
<i>For Class 52 Rating, Deduct</i>	-820.42	
<i>For Class 54 Rating, Add</i>	559.38	
<i>For Class 55 Rating, Add</i>	1,243.32	
40 05 19 00-0518 EA 48" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,845.43	2,510.01
<i>For Class 52 Rating, Deduct</i>	-884.66	
<i>For Class 54 Rating, Add</i>	603.18	
<i>For Class 55 Rating, Add</i>	1,340.67	
40 05 19 00-0519 EA 48" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,438.82	2,513.03
<i>For Class 52 Rating, Deduct</i>	-949.43	
<i>For Class 54 Rating, Add</i>	647.34	
<i>For Class 55 Rating, Add</i>	1,438.82	
40 05 19 00-0520 EA 48" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,028.21	2,516.05
<i>For Class 52 Rating, Deduct</i>	-1,013.76	
<i>For Class 54 Rating, Add</i>	691.20	
<i>For Class 55 Rating, Add</i>	1,536.31	
40 05 19 00-0521 EA 48" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,617.59	2,519.08
<i>For Class 52 Rating, Deduct</i>	-1,078.09	
<i>For Class 54 Rating, Add</i>	735.06	
<i>For Class 55 Rating, Add</i>	1,633.79	
40 05 19 00-0522 EA 48" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,210.18	2,522.11
<i>For Class 52 Rating, Deduct</i>	-1,142.77	
<i>For Class 54 Rating, Add</i>	779.16	
<i>For Class 55 Rating, Add</i>	1,731.81	
40 05 19 00-0523 EA 48" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,800.38	2,525.14
<i>For Class 52 Rating, Deduct</i>	-1,207.18	
<i>For Class 54 Rating, Add</i>	823.08	
<i>For Class 55 Rating, Add</i>	1,829.43	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0524	EA		48" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,388.96	2,528.17
			<i>For Class 52 Rating, Deduct</i>	-1,271.42	
			<i>For Class 54 Rating, Add</i>	866.88	
			<i>For Class 55 Rating, Add</i>	1,926.79	
40 05 19 00-0525	EA		48" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,982.35	2,531.20
			<i>For Class 52 Rating, Deduct</i>	-1,336.19	
			<i>For Class 54 Rating, Add</i>	911.04	
			<i>For Class 55 Rating, Add</i>	2,024.94	
40 05 19 00-0526	EA		48" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,571.74	2,534.23
			<i>For Class 52 Rating, Deduct</i>	-1,400.52	
			<i>For Class 54 Rating, Add</i>	954.90	
			<i>For Class 55 Rating, Add</i>	2,122.42	
40 05 19 00-0527	EA		48" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,165.12	2,537.25
			<i>For Class 52 Rating, Deduct</i>	-1,465.29	
			<i>For Class 54 Rating, Add</i>	999.06	
			<i>For Class 55 Rating, Add</i>	2,220.58	
40 05 19 00-0528	EA		48" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,753.71	2,540.28
			<i>For Class 52 Rating, Deduct</i>	-1,529.53	
			<i>For Class 54 Rating, Add</i>	1,042.86	
			<i>For Class 55 Rating, Add</i>	2,317.93	
40 05 19 00-0529	EA		48" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,343.10	2,543.31
			<i>For Class 52 Rating, Deduct</i>	-1,593.86	
			<i>For Class 54 Rating, Add</i>	1,086.72	
			<i>For Class 55 Rating, Add</i>	2,415.42	
40 05 19 00-0530	EA		48" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,936.49	2,546.33
			<i>For Class 52 Rating, Deduct</i>	-1,658.62	
			<i>For Class 54 Rating, Add</i>	1,130.88	
			<i>For Class 55 Rating, Add</i>	2,513.57	
40 05 19 00-0531	EA		48" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,525.87	2,549.36
			<i>For Class 52 Rating, Deduct</i>	-1,722.95	
			<i>For Class 54 Rating, Add</i>	1,174.74	
			<i>For Class 55 Rating, Add</i>	2,611.06	
40 05 19 00-0532	EA		48" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,114.46	2,552.39
			<i>For Class 52 Rating, Deduct</i>	-1,787.19	
			<i>For Class 54 Rating, Add</i>	1,218.54	
			<i>For Class 55 Rating, Add</i>	2,708.41	
40 05 19 00-0533	EA		48" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,707.85	2,555.42
			<i>For Class 52 Rating, Deduct</i>	-1,851.96	
			<i>For Class 54 Rating, Add</i>	1,262.70	
			<i>For Class 55 Rating, Add</i>	2,806.56	
40 05 19 00-0534	EA		48" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,297.23	2,558.45
			<i>For Class 52 Rating, Deduct</i>	-1,916.29	
			<i>For Class 54 Rating, Add</i>	1,306.56	
			<i>For Class 55 Rating, Add</i>	2,904.05	
40 05 19 00-0535	EA		48" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,885.82	2,561.47
			<i>For Class 52 Rating, Deduct</i>	-1,980.53	
			<i>For Class 54 Rating, Add</i>	1,350.36	
			<i>For Class 55 Rating, Add</i>	3,001.40	
40 05 19 00-0536	EA		48" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,479.21	2,564.50
			<i>For Class 52 Rating, Deduct</i>	-2,045.30	
			<i>For Class 54 Rating, Add</i>	1,394.52	
			<i>For Class 55 Rating, Add</i>	3,099.55	
40 05 19 00-0537	EA		48" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,069.40	2,567.53
			<i>For Class 52 Rating, Deduct</i>	-2,109.71	
			<i>For Class 54 Rating, Add</i>	1,438.44	
			<i>For Class 55 Rating, Add</i>	3,197.17	
40 05 19 00-0538	EA		48" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,657.98	2,570.56
			<i>For Class 52 Rating, Deduct</i>	-2,173.95	
			<i>For Class 54 Rating, Add</i>	1,482.24	
			<i>For Class 55 Rating, Add</i>	3,294.53	
40 05 19 00-0539	EA		48" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,251.37	2,573.59
			<i>For Class 52 Rating, Deduct</i>	-2,238.72	
			<i>For Class 54 Rating, Add</i>	1,526.40	
			<i>For Class 55 Rating, Add</i>	3,392.68	
40 05 19 00-0540	EA		48" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,840.76	2,576.62
			<i>For Class 52 Rating, Deduct</i>	-2,303.05	
			<i>For Class 54 Rating, Add</i>	1,570.26	
			<i>For Class 55 Rating, Add</i>	3,490.16	
40 05 19 00-0541	EA		48" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,429.34	2,579.64
			<i>For Class 52 Rating, Deduct</i>	-2,367.29	
			<i>For Class 54 Rating, Add</i>	1,614.06	
			<i>For Class 55 Rating, Add</i>	3,587.52	
40 05 19 00-0542	EA		48" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,022.73	2,582.66
			<i>For Class 52 Rating, Deduct</i>	-2,432.06	
			<i>For Class 54 Rating, Add</i>	1,658.22	
			<i>For Class 55 Rating, Add</i>	3,685.67	
40 05 19 00-0543	EA		48" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,612.12	2,585.69
			<i>For Class 52 Rating, Deduct</i>	-2,496.38	
			<i>For Class 54 Rating, Add</i>	1,702.08	
			<i>For Class 55 Rating, Add</i>	3,783.16	
40 05 19 00-0544	EA		48" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,129.51	2,588.72
			<i>For Class 52 Rating, Deduct</i>	-2,552.79	
			<i>For Class 54 Rating, Add</i>	1,740.54	
			<i>For Class 55 Rating, Add</i>	3,868.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0545 EA 48" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,794.89	2,591.75
<i>For Class 52 Rating, Deduct</i>	-2,625.48	
<i>For Class 54 Rating, Add</i>	1,790.10	
<i>For Class 55 Rating, Add</i>	3,978.80	
40 05 19 00-0546 EA 48" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,383.48	2,594.78
<i>For Class 52 Rating, Deduct</i>	-2,689.72	
<i>For Class 54 Rating, Add</i>	1,833.90	
<i>For Class 55 Rating, Add</i>	4,076.15	
40 05 19 00-0547 EA 48" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,977.67	2,597.81
<i>For Class 52 Rating, Deduct</i>	-2,754.58	
<i>For Class 54 Rating, Add</i>	1,878.12	
<i>For Class 55 Rating, Add</i>	4,174.43	
40 05 19 00-0548 EA 48" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,566.25	2,600.84
<i>For Class 52 Rating, Deduct</i>	-2,818.82	
<i>For Class 54 Rating, Add</i>	1,921.92	
<i>For Class 55 Rating, Add</i>	4,271.79	
40 05 19 00-0549 EA 48" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,154.85	2,603.87
<i>For Class 52 Rating, Deduct</i>	-2,883.06	
<i>For Class 54 Rating, Add</i>	1,965.72	
<i>For Class 55 Rating, Add</i>	4,369.14	
40 05 19 00-0550 EA 48" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,749.04	2,606.89
<i>For Class 52 Rating, Deduct</i>	-2,947.91	
<i>For Class 54 Rating, Add</i>	2,009.94	
<i>For Class 55 Rating, Add</i>	4,467.43	
40 05 19 00-0551 EA 48" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,337.63	2,609.92
<i>For Class 52 Rating, Deduct</i>	-3,012.15	
<i>For Class 54 Rating, Add</i>	2,053.74	
<i>For Class 55 Rating, Add</i>	4,564.78	
40 05 19 00-0552 EA 48" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,927.01	2,612.94
<i>For Class 52 Rating, Deduct</i>	-3,076.48	
<i>For Class 54 Rating, Add</i>	2,097.60	
<i>For Class 55 Rating, Add</i>	4,662.27	
40 05 19 00-0553 EA 48" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,520.40	2,615.97
<i>For Class 52 Rating, Deduct</i>	-3,141.25	
<i>For Class 54 Rating, Add</i>	2,141.76	
<i>For Class 55 Rating, Add</i>	4,760.42	
 40 05 19 00-0554 Flanged End x Grooved End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0001)</small>		
 40 05 19 00-0555 4" Flanged End x Grooved End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0556 EA 4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	345.92	138.55
<i>For Class 52 Rating, Deduct</i>	-14.96	
<i>For Class 54 Rating, Add</i>	10.20	
<i>For Class 55 Rating, Add</i>	22.67	
40 05 19 00-0557 EA 4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	370.39	140.98
<i>For Class 52 Rating, Deduct</i>	-17.25	
<i>For Class 54 Rating, Add</i>	11.76	
<i>For Class 55 Rating, Add</i>	26.14	
40 05 19 00-0558 EA 4" Flanged x Grooved (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	394.86	143.39
<i>For Class 52 Rating, Deduct</i>	-19.54	
<i>For Class 54 Rating, Add</i>	13.32	
<i>For Class 55 Rating, Add</i>	29.61	
40 05 19 00-0559 EA 4" Flanged x Grooved (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	419.34	145.82
<i>For Class 52 Rating, Deduct</i>	-21.82	
<i>For Class 54 Rating, Add</i>	14.88	
<i>For Class 55 Rating, Add</i>	33.07	
40 05 19 00-0560 EA 4" Flanged x Grooved (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	443.80	148.24
<i>For Class 52 Rating, Deduct</i>	-24.11	
<i>For Class 54 Rating, Add</i>	16.44	
<i>For Class 55 Rating, Add</i>	36.54	
40 05 19 00-0561 EA 4" Flanged x Grooved (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	468.27	150.66
<i>For Class 52 Rating, Deduct</i>	-26.40	
<i>For Class 54 Rating, Add</i>	18.00	
<i>For Class 55 Rating, Add</i>	40.01	
40 05 19 00-0562 EA 4" Flanged x Grooved (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	492.74	153.08
<i>For Class 52 Rating, Deduct</i>	-28.69	
<i>For Class 54 Rating, Add</i>	19.56	
<i>For Class 55 Rating, Add</i>	43.48	
40 05 19 00-0563 EA 4" Flanged x Grooved (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	517.22	155.51
<i>For Class 52 Rating, Deduct</i>	-30.98	
<i>For Class 54 Rating, Add</i>	21.12	
<i>For Class 55 Rating, Add</i>	46.94	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0564	EA		4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	541.69	157.93
			For Class 52 Rating, Deduct	-33.26	
			For Class 54 Rating, Add	22.68	
			For Class 55 Rating, Add	50.41	
40 05 19 00-0565	EA		4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	566.15	160.35
			For Class 52 Rating, Deduct	-35.55	
			For Class 54 Rating, Add	24.24	
			For Class 55 Rating, Add	53.88	
40 05 19 00-0566	EA		4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	590.62	162.77
			For Class 52 Rating, Deduct	-37.84	
			For Class 54 Rating, Add	25.80	
			For Class 55 Rating, Add	57.34	
40 05 19 00-0567	EA		4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	615.10	165.20
			For Class 52 Rating, Deduct	-40.13	
			For Class 54 Rating, Add	27.36	
			For Class 55 Rating, Add	60.81	
40 05 19 00-0568	EA		4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	639.57	167.61
			For Class 52 Rating, Deduct	-42.42	
			For Class 54 Rating, Add	28.92	
			For Class 55 Rating, Add	64.28	
40 05 19 00-0569	EA		4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	664.03	170.04
			For Class 52 Rating, Deduct	-44.70	
			For Class 54 Rating, Add	30.48	
			For Class 55 Rating, Add	67.75	
40 05 19 00-0570	EA		4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	688.50	172.47
			For Class 52 Rating, Deduct	-46.99	
			For Class 54 Rating, Add	32.04	
			For Class 55 Rating, Add	71.21	
40 05 19 00-0571	EA		4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	712.97	174.88
			For Class 52 Rating, Deduct	-49.28	
			For Class 54 Rating, Add	33.60	
			For Class 55 Rating, Add	74.68	
40 05 19 00-0572	EA		4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	737.45	177.31
			For Class 52 Rating, Deduct	-51.57	
			For Class 54 Rating, Add	35.16	
			For Class 55 Rating, Add	78.15	
40 05 19 00-0573	EA		4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	761.91	179.73
			For Class 52 Rating, Deduct	-53.86	
			For Class 54 Rating, Add	36.72	
			For Class 55 Rating, Add	81.62	
40 05 19 00-0574	EA		4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	786.38	182.15
			For Class 52 Rating, Deduct	-56.14	
			For Class 54 Rating, Add	38.28	
			For Class 55 Rating, Add	85.08	
40 05 19 00-0575	EA		4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	810.85	184.57
			For Class 52 Rating, Deduct	-58.43	
			For Class 54 Rating, Add	39.84	
			For Class 55 Rating, Add	88.55	
40 05 19 00-0576	EA		4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	835.33	187.00
			For Class 52 Rating, Deduct	-60.72	
			For Class 54 Rating, Add	41.40	
			For Class 55 Rating, Add	92.02	
40 05 19 00-0577	EA		4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	859.80	189.42
			For Class 52 Rating, Deduct	-63.01	
			For Class 54 Rating, Add	42.96	
			For Class 55 Rating, Add	95.49	
40 05 19 00-0578	EA		4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	884.26	191.84
			For Class 52 Rating, Deduct	-65.30	
			For Class 54 Rating, Add	44.52	
			For Class 55 Rating, Add	98.95	
40 05 19 00-0579	EA		4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	908.73	194.26
			For Class 52 Rating, Deduct	-67.58	
			For Class 54 Rating, Add	46.08	
			For Class 55 Rating, Add	102.42	
40 05 19 00-0580	EA		4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	933.21	196.69
			For Class 52 Rating, Deduct	-69.87	
			For Class 54 Rating, Add	47.64	
			For Class 55 Rating, Add	105.89	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0581 EA 4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	957.68	199.10
For Class 52 Rating, Deduct	-72.16	
For Class 54 Rating, Add	49.20	
For Class 55 Rating, Add	109.36	
40 05 19 00-0582 EA 4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	982.14	201.53
For Class 52 Rating, Deduct	-74.45	
For Class 54 Rating, Add	50.76	
For Class 55 Rating, Add	112.82	
40 05 19 00-0583 EA 4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,006.61	203.95
For Class 52 Rating, Deduct	-76.74	
For Class 54 Rating, Add	52.32	
For Class 55 Rating, Add	116.29	
40 05 19 00-0584 EA 4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,031.08	206.37
For Class 52 Rating, Deduct	-79.02	
For Class 54 Rating, Add	53.88	
For Class 55 Rating, Add	119.76	
40 05 19 00-0585 EA 4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,055.56	208.79
For Class 52 Rating, Deduct	-81.31	
For Class 54 Rating, Add	55.44	
For Class 55 Rating, Add	123.22	
40 05 19 00-0586 EA 4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,080.02	211.22
For Class 52 Rating, Deduct	-83.60	
For Class 54 Rating, Add	57.00	
For Class 55 Rating, Add	126.69	
40 05 19 00-0587 EA 4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,104.49	213.64
For Class 52 Rating, Deduct	-85.89	
For Class 54 Rating, Add	58.56	
For Class 55 Rating, Add	130.16	
40 05 19 00-0588 EA 4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,128.96	216.06
For Class 52 Rating, Deduct	-88.18	
For Class 54 Rating, Add	60.12	
For Class 55 Rating, Add	133.63	
40 05 19 00-0589 EA 4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,153.44	218.49
For Class 52 Rating, Deduct	-90.46	
For Class 54 Rating, Add	61.68	
For Class 55 Rating, Add	137.09	
40 05 19 00-0590 EA 4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,177.90	220.91
For Class 52 Rating, Deduct	-92.75	
For Class 54 Rating, Add	63.24	
For Class 55 Rating, Add	140.56	
40 05 19 00-0591 EA 4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,202.37	223.33
For Class 52 Rating, Deduct	-95.04	
For Class 54 Rating, Add	64.80	
For Class 55 Rating, Add	144.03	
40 05 19 00-0592 EA 4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,226.84	225.75
For Class 52 Rating, Deduct	-97.33	
For Class 54 Rating, Add	66.36	
For Class 55 Rating, Add	147.50	
40 05 19 00-0593 EA 4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,251.32	228.18
For Class 52 Rating, Deduct	-99.62	
For Class 54 Rating, Add	67.92	
For Class 55 Rating, Add	150.96	
40 05 19 00-0594 EA 4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,275.79	230.59
For Class 52 Rating, Deduct	-101.90	
For Class 54 Rating, Add	69.48	
For Class 55 Rating, Add	154.43	
40 05 19 00-0595 6" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-0554)</small>		
40 05 19 00-0596 EA 6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	433.04	174.40
For Class 52 Rating, Deduct	-18.57	
For Class 54 Rating, Add	12.66	
For Class 55 Rating, Add	28.14	
40 05 19 00-0597 EA 6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	462.31	176.82
For Class 52 Rating, Deduct	-21.38	
For Class 54 Rating, Add	14.58	
For Class 55 Rating, Add	32.41	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0598	EA		6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	491.58	179.24
			<i>For Class 52 Rating, Deduct</i>	-24.20	
			<i>For Class 54 Rating, Add</i>	16.50	
			<i>For Class 55 Rating, Add</i>	36.67	
40 05 19 00-0599	EA		6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	520.85	181.67
			<i>For Class 52 Rating, Deduct</i>	-27.02	
			<i>For Class 54 Rating, Add</i>	18.42	
			<i>For Class 55 Rating, Add</i>	40.94	
40 05 19 00-0600	EA		6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	550.12	184.09
			<i>For Class 52 Rating, Deduct</i>	-29.83	
			<i>For Class 54 Rating, Add</i>	20.34	
			<i>For Class 55 Rating, Add</i>	45.21	
40 05 19 00-0601	EA		6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	579.39	186.51
			<i>For Class 52 Rating, Deduct</i>	-32.65	
			<i>For Class 54 Rating, Add</i>	22.26	
			<i>For Class 55 Rating, Add</i>	49.48	
40 05 19 00-0602	EA		6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	608.66	188.93
			<i>For Class 52 Rating, Deduct</i>	-35.46	
			<i>For Class 54 Rating, Add</i>	24.18	
			<i>For Class 55 Rating, Add</i>	53.74	
40 05 19 00-0603	EA		6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	637.93	191.36
			<i>For Class 52 Rating, Deduct</i>	-38.28	
			<i>For Class 54 Rating, Add</i>	26.10	
			<i>For Class 55 Rating, Add</i>	58.01	
40 05 19 00-0604	EA		6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	667.19	193.77
			<i>For Class 52 Rating, Deduct</i>	-41.10	
			<i>For Class 54 Rating, Add</i>	28.02	
			<i>For Class 55 Rating, Add</i>	62.28	
40 05 19 00-0605	EA		6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	696.47	196.20
			<i>For Class 52 Rating, Deduct</i>	-43.91	
			<i>For Class 54 Rating, Add</i>	29.94	
			<i>For Class 55 Rating, Add</i>	66.55	
40 05 19 00-0606	EA		6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	725.74	198.62
			<i>For Class 52 Rating, Deduct</i>	-46.73	
			<i>For Class 54 Rating, Add</i>	31.86	
			<i>For Class 55 Rating, Add</i>	70.81	
40 05 19 00-0607	EA		6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	755.01	201.04
			<i>For Class 52 Rating, Deduct</i>	-49.54	
			<i>For Class 54 Rating, Add</i>	33.78	
			<i>For Class 55 Rating, Add</i>	75.08	
40 05 19 00-0608	EA		6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	784.28	203.46
			<i>For Class 52 Rating, Deduct</i>	-52.36	
			<i>For Class 54 Rating, Add</i>	35.70	
			<i>For Class 55 Rating, Add</i>	79.35	
40 05 19 00-0609	EA		6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	813.55	205.89
			<i>For Class 52 Rating, Deduct</i>	-55.18	
			<i>For Class 54 Rating, Add</i>	37.62	
			<i>For Class 55 Rating, Add</i>	83.62	
40 05 19 00-0610	EA		6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	842.82	208.31
			<i>For Class 52 Rating, Deduct</i>	-57.99	
			<i>For Class 54 Rating, Add</i>	39.54	
			<i>For Class 55 Rating, Add</i>	87.88	
40 05 19 00-0611	EA		6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	872.09	210.73
			<i>For Class 52 Rating, Deduct</i>	-60.81	
			<i>For Class 54 Rating, Add</i>	41.46	
			<i>For Class 55 Rating, Add</i>	92.15	
40 05 19 00-0612	EA		6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	901.36	213.15
			<i>For Class 52 Rating, Deduct</i>	-63.62	
			<i>For Class 54 Rating, Add</i>	43.38	
			<i>For Class 55 Rating, Add</i>	96.42	
40 05 19 00-0613	EA		6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	930.63	215.58
			<i>For Class 52 Rating, Deduct</i>	-66.44	
			<i>For Class 54 Rating, Add</i>	45.30	
			<i>For Class 55 Rating, Add</i>	100.69	
40 05 19 00-0614	EA		6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	959.90	217.99
			<i>For Class 52 Rating, Deduct</i>	-69.26	
			<i>For Class 54 Rating, Add</i>	47.22	
			<i>For Class 55 Rating, Add</i>	104.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0615 EA 6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	989.17	220.42
<i>For Class 52 Rating, Deduct</i>	-72.07	
<i>For Class 54 Rating, Add</i>	49.14	
<i>For Class 55 Rating, Add</i>	109.22	
40 05 19 00-0616 EA 6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,018.44	222.84
<i>For Class 52 Rating, Deduct</i>	-74.89	
<i>For Class 54 Rating, Add</i>	51.06	
<i>For Class 55 Rating, Add</i>	113.49	
40 05 19 00-0617 EA 6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,047.70	225.26
<i>For Class 52 Rating, Deduct</i>	-77.70	
<i>For Class 54 Rating, Add</i>	52.98	
<i>For Class 55 Rating, Add</i>	117.76	
40 05 19 00-0618 EA 6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,076.98	227.69
<i>For Class 52 Rating, Deduct</i>	-80.52	
<i>For Class 54 Rating, Add</i>	54.90	
<i>For Class 55 Rating, Add</i>	122.02	
40 05 19 00-0619 EA 6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,106.25	230.11
<i>For Class 52 Rating, Deduct</i>	-83.34	
<i>For Class 54 Rating, Add</i>	56.82	
<i>For Class 55 Rating, Add</i>	126.29	
40 05 19 00-0620 EA 6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,135.52	232.53
<i>For Class 52 Rating, Deduct</i>	-86.15	
<i>For Class 54 Rating, Add</i>	58.74	
<i>For Class 55 Rating, Add</i>	130.56	
40 05 19 00-0621 EA 6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,164.79	234.95
<i>For Class 52 Rating, Deduct</i>	-88.97	
<i>For Class 54 Rating, Add</i>	60.66	
<i>For Class 55 Rating, Add</i>	134.83	
40 05 19 00-0622 EA 6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,194.06	237.38
<i>For Class 52 Rating, Deduct</i>	-91.78	
<i>For Class 54 Rating, Add</i>	62.58	
<i>For Class 55 Rating, Add</i>	139.09	
40 05 19 00-0623 EA 6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,223.33	239.80
<i>For Class 52 Rating, Deduct</i>	-94.60	
<i>For Class 54 Rating, Add</i>	64.50	
<i>For Class 55 Rating, Add</i>	143.36	
40 05 19 00-0624 EA 6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,252.60	242.22
<i>For Class 52 Rating, Deduct</i>	-97.42	
<i>For Class 54 Rating, Add</i>	66.42	
<i>For Class 55 Rating, Add</i>	147.63	
40 05 19 00-0625 EA 6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,281.87	244.64
<i>For Class 52 Rating, Deduct</i>	-100.23	
<i>For Class 54 Rating, Add</i>	68.34	
<i>For Class 55 Rating, Add</i>	151.90	
40 05 19 00-0626 EA 6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,311.14	247.07
<i>For Class 52 Rating, Deduct</i>	-103.05	
<i>For Class 54 Rating, Add</i>	70.26	
<i>For Class 55 Rating, Add</i>	156.16	
40 05 19 00-0627 EA 6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,340.41	249.48
<i>For Class 52 Rating, Deduct</i>	-105.86	
<i>For Class 54 Rating, Add</i>	72.18	
<i>For Class 55 Rating, Add</i>	160.43	
40 05 19 00-0628 EA 6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,369.68	251.91
<i>For Class 52 Rating, Deduct</i>	-108.68	
<i>For Class 54 Rating, Add</i>	74.10	
<i>For Class 55 Rating, Add</i>	164.70	
40 05 19 00-0629 EA 6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,398.95	254.33
<i>For Class 52 Rating, Deduct</i>	-111.50	
<i>For Class 54 Rating, Add</i>	76.02	
<i>For Class 55 Rating, Add</i>	168.97	
40 05 19 00-0630 EA 6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,428.22	256.75
<i>For Class 52 Rating, Deduct</i>	-114.31	
<i>For Class 54 Rating, Add</i>	77.94	
<i>For Class 55 Rating, Add</i>	173.23	
40 05 19 00-0631 EA 6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,457.49	259.17
<i>For Class 52 Rating, Deduct</i>	-117.13	
<i>For Class 54 Rating, Add</i>	79.86	
<i>For Class 55 Rating, Add</i>	177.50	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0632	EA		6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,486.76	261.60
			<i>For Class 52 Rating, Deduct</i>	-119.94	
			<i>For Class 54 Rating, Add</i>	81.78	
			<i>For Class 55 Rating, Add</i>	181.77	
40 05 19 00-0633	EA		6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,516.03	264.01
			<i>For Class 52 Rating, Deduct</i>	-122.76	
			<i>For Class 54 Rating, Add</i>	83.70	
			<i>For Class 55 Rating, Add</i>	186.04	
40 05 19 00-0634	EA		6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,545.30	266.44
			<i>For Class 52 Rating, Deduct</i>	-125.58	
			<i>For Class 54 Rating, Add</i>	85.62	
			<i>For Class 55 Rating, Add</i>	190.30	
40 05 19 00-0635			8" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
			<small>(40 05 19 00-0554)</small>		
40 05 19 00-0636	EA		8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	584.04	222.84
			<i>For Class 52 Rating, Deduct</i>	-27.10	
			<i>For Class 54 Rating, Add</i>	18.48	
			<i>For Class 55 Rating, Add</i>	41.07	
40 05 19 00-0637	EA		8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	622.90	225.26
			<i>For Class 52 Rating, Deduct</i>	-30.98	
			<i>For Class 54 Rating, Add</i>	21.12	
			<i>For Class 55 Rating, Add</i>	46.94	
40 05 19 00-0638	EA		8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	661.78	227.69
			<i>For Class 52 Rating, Deduct</i>	-34.85	
			<i>For Class 54 Rating, Add</i>	23.76	
			<i>For Class 55 Rating, Add</i>	52.81	
40 05 19 00-0639	EA		8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	700.65	230.11
			<i>For Class 52 Rating, Deduct</i>	-38.72	
			<i>For Class 54 Rating, Add</i>	26.40	
			<i>For Class 55 Rating, Add</i>	58.68	
40 05 19 00-0640	EA		8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	739.52	232.53
			<i>For Class 52 Rating, Deduct</i>	-42.59	
			<i>For Class 54 Rating, Add</i>	29.04	
			<i>For Class 55 Rating, Add</i>	64.55	
40 05 19 00-0641	EA		8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	778.39	234.95
			<i>For Class 52 Rating, Deduct</i>	-46.46	
			<i>For Class 54 Rating, Add</i>	31.68	
			<i>For Class 55 Rating, Add</i>	70.41	
40 05 19 00-0642	EA		8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	817.26	237.38
			<i>For Class 52 Rating, Deduct</i>	-50.34	
			<i>For Class 54 Rating, Add</i>	34.32	
			<i>For Class 55 Rating, Add</i>	76.28	
40 05 19 00-0643	EA		8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	856.13	239.80
			<i>For Class 52 Rating, Deduct</i>	-54.21	
			<i>For Class 54 Rating, Add</i>	36.96	
			<i>For Class 55 Rating, Add</i>	82.15	
40 05 19 00-0644	EA		8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	895.00	242.22
			<i>For Class 52 Rating, Deduct</i>	-58.08	
			<i>For Class 54 Rating, Add</i>	39.60	
			<i>For Class 55 Rating, Add</i>	88.02	
40 05 19 00-0645	EA		8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	933.87	244.64
			<i>For Class 52 Rating, Deduct</i>	-61.95	
			<i>For Class 54 Rating, Add</i>	42.24	
			<i>For Class 55 Rating, Add</i>	93.89	
40 05 19 00-0646	EA		8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	972.74	247.07
			<i>For Class 52 Rating, Deduct</i>	-65.82	
			<i>For Class 54 Rating, Add</i>	44.88	
			<i>For Class 55 Rating, Add</i>	99.75	
40 05 19 00-0647	EA		8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,011.61	249.48
			<i>For Class 52 Rating, Deduct</i>	-69.70	
			<i>For Class 54 Rating, Add</i>	47.52	
			<i>For Class 55 Rating, Add</i>	105.62	
40 05 19 00-0648	EA		8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,050.48	251.91
			<i>For Class 52 Rating, Deduct</i>	-73.57	
			<i>For Class 54 Rating, Add</i>	50.16	
			<i>For Class 55 Rating, Add</i>	111.49	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40 05 19
Ductile Iron Process Pipe	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0649 EA 8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,089.35	254.33
<i>For Class 52 Rating, Deduct</i>	-77.44	
<i>For Class 54 Rating, Add</i>	52.80	
<i>For Class 55 Rating, Add</i>	117.36	
40 05 19 00-0650 EA 8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,128.22	256.75
<i>For Class 52 Rating, Deduct</i>	-81.31	
<i>For Class 54 Rating, Add</i>	55.44	
<i>For Class 55 Rating, Add</i>	123.22	
40 05 19 00-0651 EA 8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,167.09	259.17
<i>For Class 52 Rating, Deduct</i>	-85.18	
<i>For Class 54 Rating, Add</i>	58.08	
<i>For Class 55 Rating, Add</i>	129.09	
40 05 19 00-0652 EA 8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,205.96	261.60
<i>For Class 52 Rating, Deduct</i>	-89.06	
<i>For Class 54 Rating, Add</i>	60.72	
<i>For Class 55 Rating, Add</i>	134.96	
40 05 19 00-0653 EA 8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,244.83	264.01
<i>For Class 52 Rating, Deduct</i>	-92.93	
<i>For Class 54 Rating, Add</i>	63.36	
<i>For Class 55 Rating, Add</i>	140.83	
40 05 19 00-0654 EA 8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,283.70	266.44
<i>For Class 52 Rating, Deduct</i>	-96.80	
<i>For Class 54 Rating, Add</i>	66.00	
<i>For Class 55 Rating, Add</i>	146.70	
40 05 19 00-0655 EA 8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,322.57	268.87
<i>For Class 52 Rating, Deduct</i>	-100.67	
<i>For Class 54 Rating, Add</i>	68.64	
<i>For Class 55 Rating, Add</i>	152.56	
40 05 19 00-0656 EA 8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,361.44	271.29
<i>For Class 52 Rating, Deduct</i>	-104.54	
<i>For Class 54 Rating, Add</i>	71.28	
<i>For Class 55 Rating, Add</i>	158.43	
40 05 19 00-0657 EA 8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,400.31	273.71
<i>For Class 52 Rating, Deduct</i>	-108.42	
<i>For Class 54 Rating, Add</i>	73.92	
<i>For Class 55 Rating, Add</i>	164.30	
40 05 19 00-0658 EA 8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,439.18	276.13
<i>For Class 52 Rating, Deduct</i>	-112.29	
<i>For Class 54 Rating, Add</i>	76.56	
<i>For Class 55 Rating, Add</i>	170.17	
40 05 19 00-0659 EA 8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,478.05	278.56
<i>For Class 52 Rating, Deduct</i>	-116.16	
<i>For Class 54 Rating, Add</i>	79.20	
<i>For Class 55 Rating, Add</i>	176.04	
40 05 19 00-0660 EA 8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,516.92	280.97
<i>For Class 52 Rating, Deduct</i>	-120.03	
<i>For Class 54 Rating, Add</i>	81.84	
<i>For Class 55 Rating, Add</i>	181.90	
40 05 19 00-0661 EA 8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,555.79	283.40
<i>For Class 52 Rating, Deduct</i>	-123.90	
<i>For Class 54 Rating, Add</i>	84.48	
<i>For Class 55 Rating, Add</i>	187.77	
40 05 19 00-0662 EA 8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,594.66	285.82
<i>For Class 52 Rating, Deduct</i>	-127.78	
<i>For Class 54 Rating, Add</i>	87.12	
<i>For Class 55 Rating, Add</i>	193.64	
40 05 19 00-0663 EA 8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,633.53	288.24
<i>For Class 52 Rating, Deduct</i>	-131.65	
<i>For Class 54 Rating, Add</i>	89.76	
<i>For Class 55 Rating, Add</i>	199.51	
40 05 19 00-0664 EA 8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,672.40	290.66
<i>For Class 52 Rating, Deduct</i>	-135.52	
<i>For Class 54 Rating, Add</i>	92.40	
<i>For Class 55 Rating, Add</i>	205.37	
40 05 19 00-0665 EA 8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,711.27	293.09
<i>For Class 52 Rating, Deduct</i>	-139.39	
<i>For Class 54 Rating, Add</i>	95.04	
<i>For Class 55 Rating, Add</i>	211.24	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0666	EA		8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,750.14	295.50
			<i>For Class 52 Rating, Deduct</i>	-143.26	
			<i>For Class 54 Rating, Add</i>	97.68	
			<i>For Class 55 Rating, Add</i>	217.11	
40 05 19 00-0667	EA		8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,789.01	297.93
			<i>For Class 52 Rating, Deduct</i>	-147.14	
			<i>For Class 54 Rating, Add</i>	100.32	
			<i>For Class 55 Rating, Add</i>	222.98	
40 05 19 00-0668	EA		8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,827.88	300.35
			<i>For Class 52 Rating, Deduct</i>	-151.01	
			<i>For Class 54 Rating, Add</i>	102.96	
			<i>For Class 55 Rating, Add</i>	228.85	
40 05 19 00-0669	EA		8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,866.75	302.78
			<i>For Class 52 Rating, Deduct</i>	-154.88	
			<i>For Class 54 Rating, Add</i>	105.60	
			<i>For Class 55 Rating, Add</i>	234.71	
40 05 19 00-0670	EA		8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,905.62	305.19
			<i>For Class 52 Rating, Deduct</i>	-158.75	
			<i>For Class 54 Rating, Add</i>	108.24	
			<i>For Class 55 Rating, Add</i>	240.58	
40 05 19 00-0671	EA		8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,944.49	307.62
			<i>For Class 52 Rating, Deduct</i>	-162.62	
			<i>For Class 54 Rating, Add</i>	110.88	
			<i>For Class 55 Rating, Add</i>	246.45	
40 05 19 00-0672	EA		8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,983.36	310.04
			<i>For Class 52 Rating, Deduct</i>	-166.50	
			<i>For Class 54 Rating, Add</i>	113.52	
			<i>For Class 55 Rating, Add</i>	252.32	
40 05 19 00-0673	EA		8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,022.23	312.46
			<i>For Class 52 Rating, Deduct</i>	-170.37	
			<i>For Class 54 Rating, Add</i>	116.16	
			<i>For Class 55 Rating, Add</i>	258.18	
40 05 19 00-0674	EA		8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,061.10	314.89
			<i>For Class 52 Rating, Deduct</i>	-174.24	
			<i>For Class 54 Rating, Add</i>	118.80	
			<i>For Class 55 Rating, Add</i>	264.05	
40 05 19 00-0675			10" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0676	EA		10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	726.24	271.29
			<i>For Class 52 Rating, Deduct</i>	-34.67	
			<i>For Class 54 Rating, Add</i>	23.64	
			<i>For Class 55 Rating, Add</i>	52.54	
40 05 19 00-0677	EA		10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	776.31	273.71
			<i>For Class 52 Rating, Deduct</i>	-39.78	
			<i>For Class 54 Rating, Add</i>	27.12	
			<i>For Class 55 Rating, Add</i>	60.28	
40 05 19 00-0678	EA		10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	826.38	276.13
			<i>For Class 52 Rating, Deduct</i>	-44.88	
			<i>For Class 54 Rating, Add</i>	30.60	
			<i>For Class 55 Rating, Add</i>	68.01	
40 05 19 00-0679	EA		10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	876.45	278.56
			<i>For Class 52 Rating, Deduct</i>	-49.98	
			<i>For Class 54 Rating, Add</i>	34.08	
			<i>For Class 55 Rating, Add</i>	75.75	
40 05 19 00-0680	EA		10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	926.52	280.97
			<i>For Class 52 Rating, Deduct</i>	-55.09	
			<i>For Class 54 Rating, Add</i>	37.56	
			<i>For Class 55 Rating, Add</i>	83.48	
40 05 19 00-0681	EA		10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	976.59	283.40
			<i>For Class 52 Rating, Deduct</i>	-60.19	
			<i>For Class 54 Rating, Add</i>	41.04	
			<i>For Class 55 Rating, Add</i>	91.22	
40 05 19 00-0682	EA		10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,026.66	285.82
			<i>For Class 52 Rating, Deduct</i>	-65.30	
			<i>For Class 54 Rating, Add</i>	44.52	
			<i>For Class 55 Rating, Add</i>	98.95	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0683 EA 10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,076.73	288.24
For Class 52 Rating, Deduct	-70.40	
For Class 54 Rating, Add	48.00	
For Class 55 Rating, Add	106.69	
40 05 19 00-0684 EA 10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,126.80	290.66
For Class 52 Rating, Deduct	-75.50	
For Class 54 Rating, Add	51.48	
For Class 55 Rating, Add	114.42	
40 05 19 00-0685 EA 10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,176.87	293.09
For Class 52 Rating, Deduct	-80.61	
For Class 54 Rating, Add	54.96	
For Class 55 Rating, Add	122.16	
40 05 19 00-0686 EA 10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,226.94	295.50
For Class 52 Rating, Deduct	-85.71	
For Class 54 Rating, Add	58.44	
For Class 55 Rating, Add	129.89	
40 05 19 00-0687 EA 10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,277.01	297.93
For Class 52 Rating, Deduct	-90.82	
For Class 54 Rating, Add	61.92	
For Class 55 Rating, Add	137.63	
40 05 19 00-0688 EA 10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,327.08	300.35
For Class 52 Rating, Deduct	-95.92	
For Class 54 Rating, Add	65.40	
For Class 55 Rating, Add	145.36	
40 05 19 00-0689 EA 10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,377.15	302.78
For Class 52 Rating, Deduct	-101.02	
For Class 54 Rating, Add	68.88	
For Class 55 Rating, Add	153.10	
40 05 19 00-0690 EA 10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,427.22	305.19
For Class 52 Rating, Deduct	-106.13	
For Class 54 Rating, Add	72.36	
For Class 55 Rating, Add	160.83	
40 05 19 00-0691 EA 10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,477.29	307.62
For Class 52 Rating, Deduct	-111.23	
For Class 54 Rating, Add	75.84	
For Class 55 Rating, Add	168.57	
40 05 19 00-0692 EA 10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,527.36	310.04
For Class 52 Rating, Deduct	-116.34	
For Class 54 Rating, Add	79.32	
For Class 55 Rating, Add	176.30	
40 05 19 00-0693 EA 10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,577.43	312.46
For Class 52 Rating, Deduct	-121.44	
For Class 54 Rating, Add	82.80	
For Class 55 Rating, Add	184.04	
40 05 19 00-0694 EA 10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,627.50	314.89
For Class 52 Rating, Deduct	-126.54	
For Class 54 Rating, Add	86.28	
For Class 55 Rating, Add	191.77	
40 05 19 00-0695 EA 10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,677.57	317.31
For Class 52 Rating, Deduct	-131.65	
For Class 54 Rating, Add	89.76	
For Class 55 Rating, Add	199.51	
40 05 19 00-0696 EA 10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,727.64	319.73
For Class 52 Rating, Deduct	-136.75	
For Class 54 Rating, Add	93.24	
For Class 55 Rating, Add	207.24	
40 05 19 00-0697 EA 10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,777.71	322.15
For Class 52 Rating, Deduct	-141.86	
For Class 54 Rating, Add	96.72	
For Class 55 Rating, Add	214.98	
40 05 19 00-0698 EA 10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,827.78	324.58
For Class 52 Rating, Deduct	-146.96	
For Class 54 Rating, Add	100.20	
For Class 55 Rating, Add	222.71	
40 05 19 00-0699 EA 10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,877.85	327.00
For Class 52 Rating, Deduct	-152.06	
For Class 54 Rating, Add	103.68	
For Class 55 Rating, Add	230.45	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0700	EA		10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,927.92	329.42
			<i>For Class 52 Rating, Deduct</i>	-157.17	
			<i>For Class 54 Rating, Add</i>	107.16	
			<i>For Class 55 Rating, Add</i>	238.18	
40 05 19 00-0701	EA		10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,977.99	331.84
			<i>For Class 52 Rating, Deduct</i>	-162.27	
			<i>For Class 54 Rating, Add</i>	110.64	
			<i>For Class 55 Rating, Add</i>	245.92	
40 05 19 00-0702	EA		10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,028.06	334.27
			<i>For Class 52 Rating, Deduct</i>	-167.38	
			<i>For Class 54 Rating, Add</i>	114.12	
			<i>For Class 55 Rating, Add</i>	253.65	
40 05 19 00-0703	EA		10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,078.13	336.68
			<i>For Class 52 Rating, Deduct</i>	-172.48	
			<i>For Class 54 Rating, Add</i>	117.60	
			<i>For Class 55 Rating, Add</i>	261.39	
40 05 19 00-0704	EA		10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,128.20	339.11
			<i>For Class 52 Rating, Deduct</i>	-177.58	
			<i>For Class 54 Rating, Add</i>	121.08	
			<i>For Class 55 Rating, Add</i>	269.12	
40 05 19 00-0705	EA		10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,178.27	341.53
			<i>For Class 52 Rating, Deduct</i>	-182.69	
			<i>For Class 54 Rating, Add</i>	124.56	
			<i>For Class 55 Rating, Add</i>	276.86	
40 05 19 00-0706	EA		10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,228.34	343.95
			<i>For Class 52 Rating, Deduct</i>	-187.79	
			<i>For Class 54 Rating, Add</i>	128.04	
			<i>For Class 55 Rating, Add</i>	284.59	
40 05 19 00-0707	EA		10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,278.41	346.37
			<i>For Class 52 Rating, Deduct</i>	-192.90	
			<i>For Class 54 Rating, Add</i>	131.52	
			<i>For Class 55 Rating, Add</i>	292.33	
40 05 19 00-0708	EA		10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,328.48	348.80
			<i>For Class 52 Rating, Deduct</i>	-198.00	
			<i>For Class 54 Rating, Add</i>	135.00	
			<i>For Class 55 Rating, Add</i>	300.06	
40 05 19 00-0709	EA		10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,378.55	351.21
			<i>For Class 52 Rating, Deduct</i>	-203.10	
			<i>For Class 54 Rating, Add</i>	138.48	
			<i>For Class 55 Rating, Add</i>	307.79	
40 05 19 00-0710	EA		10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,428.62	353.64
			<i>For Class 52 Rating, Deduct</i>	-208.21	
			<i>For Class 54 Rating, Add</i>	141.96	
			<i>For Class 55 Rating, Add</i>	315.53	
40 05 19 00-0711	EA		10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,478.69	356.06
			<i>For Class 52 Rating, Deduct</i>	-213.31	
			<i>For Class 54 Rating, Add</i>	145.44	
			<i>For Class 55 Rating, Add</i>	323.26	
40 05 19 00-0712	EA		10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,528.76	358.48
			<i>For Class 52 Rating, Deduct</i>	-218.42	
			<i>For Class 54 Rating, Add</i>	148.92	
			<i>For Class 55 Rating, Add</i>	331.00	
40 05 19 00-0713	EA		10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,578.83	360.91
			<i>For Class 52 Rating, Deduct</i>	-223.52	
			<i>For Class 54 Rating, Add</i>	152.40	
			<i>For Class 55 Rating, Add</i>	338.73	
40 05 19 00-0714	EA		10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,628.90	363.33
			<i>For Class 52 Rating, Deduct</i>	-228.62	
			<i>For Class 54 Rating, Add</i>	155.88	
			<i>For Class 55 Rating, Add</i>	346.47	
40 05 19 00-0715			12" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
			<small>(40 05 19 00-0554)</small>		
40 05 19 00-0716	EA		12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	931.40	339.11
			<i>For Class 52 Rating, Deduct</i>	-45.94	
			<i>For Class 54 Rating, Add</i>	31.32	
			<i>For Class 55 Rating, Add</i>	69.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0717 EA 12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	993.47	341.53
<i>For Class 52 Rating, Deduct</i>	-52.36	
<i>For Class 54 Rating, Add</i>	35.70	
<i>For Class 55 Rating, Add</i>	79.35	
40 05 19 00-0718 EA 12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,055.54	343.95
<i>For Class 52 Rating, Deduct</i>	-58.78	
<i>For Class 54 Rating, Add</i>	40.08	
<i>For Class 55 Rating, Add</i>	89.08	
40 05 19 00-0719 EA 12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,117.61	346.37
<i>For Class 52 Rating, Deduct</i>	-65.21	
<i>For Class 54 Rating, Add</i>	44.46	
<i>For Class 55 Rating, Add</i>	98.82	
40 05 19 00-0720 EA 12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,179.68	348.80
<i>For Class 52 Rating, Deduct</i>	-71.63	
<i>For Class 54 Rating, Add</i>	48.84	
<i>For Class 55 Rating, Add</i>	108.56	
40 05 19 00-0721 EA 12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,241.75	351.21
<i>For Class 52 Rating, Deduct</i>	-78.06	
<i>For Class 54 Rating, Add</i>	53.22	
<i>For Class 55 Rating, Add</i>	118.29	
40 05 19 00-0722 EA 12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,303.82	353.64
<i>For Class 52 Rating, Deduct</i>	-84.48	
<i>For Class 54 Rating, Add</i>	57.60	
<i>For Class 55 Rating, Add</i>	128.03	
40 05 19 00-0723 EA 12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,365.89	356.06
<i>For Class 52 Rating, Deduct</i>	-90.90	
<i>For Class 54 Rating, Add</i>	61.98	
<i>For Class 55 Rating, Add</i>	137.76	
40 05 19 00-0724 EA 12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,427.96	358.48
<i>For Class 52 Rating, Deduct</i>	-97.33	
<i>For Class 54 Rating, Add</i>	66.36	
<i>For Class 55 Rating, Add</i>	147.50	
40 05 19 00-0725 EA 12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,490.03	360.91
<i>For Class 52 Rating, Deduct</i>	-103.75	
<i>For Class 54 Rating, Add</i>	70.74	
<i>For Class 55 Rating, Add</i>	157.23	
40 05 19 00-0726 EA 12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,552.10	363.33
<i>For Class 52 Rating, Deduct</i>	-110.18	
<i>For Class 54 Rating, Add</i>	75.12	
<i>For Class 55 Rating, Add</i>	166.97	
40 05 19 00-0727 EA 12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,614.17	365.76
<i>For Class 52 Rating, Deduct</i>	-116.60	
<i>For Class 54 Rating, Add</i>	79.50	
<i>For Class 55 Rating, Add</i>	176.70	
40 05 19 00-0728 EA 12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,676.24	368.17
<i>For Class 52 Rating, Deduct</i>	-123.02	
<i>For Class 54 Rating, Add</i>	83.88	
<i>For Class 55 Rating, Add</i>	186.44	
40 05 19 00-0729 EA 12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,738.31	370.60
<i>For Class 52 Rating, Deduct</i>	-129.45	
<i>For Class 54 Rating, Add</i>	88.26	
<i>For Class 55 Rating, Add</i>	196.17	
40 05 19 00-0730 EA 12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,800.38	373.02
<i>For Class 52 Rating, Deduct</i>	-135.87	
<i>For Class 54 Rating, Add</i>	92.64	
<i>For Class 55 Rating, Add</i>	205.91	
40 05 19 00-0731 EA 12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,862.45	375.44
<i>For Class 52 Rating, Deduct</i>	-142.30	
<i>For Class 54 Rating, Add</i>	97.02	
<i>For Class 55 Rating, Add</i>	215.64	
40 05 19 00-0732 EA 12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,924.52	377.86
<i>For Class 52 Rating, Deduct</i>	-148.72	
<i>For Class 54 Rating, Add</i>	101.40	
<i>For Class 55 Rating, Add</i>	225.38	
40 05 19 00-0733 EA 12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,986.59	380.29
<i>For Class 52 Rating, Deduct</i>	-155.14	
<i>For Class 54 Rating, Add</i>	105.78	
<i>For Class 55 Rating, Add</i>	235.11	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0734	EA		12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,048.66	382.70
			<i>For Class 52 Rating, Deduct</i>	-161.57	
			<i>For Class 54 Rating, Add</i>	110.16	
			<i>For Class 55 Rating, Add</i>	244.85	
40 05 19 00-0735	EA		12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,110.73	385.13
			<i>For Class 52 Rating, Deduct</i>	-167.99	
			<i>For Class 54 Rating, Add</i>	114.54	
			<i>For Class 55 Rating, Add</i>	254.58	
40 05 19 00-0736	EA		12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,172.80	387.55
			<i>For Class 52 Rating, Deduct</i>	-174.42	
			<i>For Class 54 Rating, Add</i>	118.92	
			<i>For Class 55 Rating, Add</i>	264.32	
40 05 19 00-0737	EA		12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,234.87	389.98
			<i>For Class 52 Rating, Deduct</i>	-180.84	
			<i>For Class 54 Rating, Add</i>	123.30	
			<i>For Class 55 Rating, Add</i>	274.05	
40 05 19 00-0738	EA		12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,296.93	392.39
			<i>For Class 52 Rating, Deduct</i>	-187.26	
			<i>For Class 54 Rating, Add</i>	127.68	
			<i>For Class 55 Rating, Add</i>	283.79	
40 05 19 00-0739	EA		12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,359.01	394.82
			<i>For Class 52 Rating, Deduct</i>	-193.69	
			<i>For Class 54 Rating, Add</i>	132.06	
			<i>For Class 55 Rating, Add</i>	293.53	
40 05 19 00-0740	EA		12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,421.08	397.24
			<i>For Class 52 Rating, Deduct</i>	-200.11	
			<i>For Class 54 Rating, Add</i>	136.44	
			<i>For Class 55 Rating, Add</i>	303.26	
40 05 19 00-0741	EA		12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,483.15	399.66
			<i>For Class 52 Rating, Deduct</i>	-206.54	
			<i>For Class 54 Rating, Add</i>	140.82	
			<i>For Class 55 Rating, Add</i>	313.00	
40 05 19 00-0742	EA		12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,545.22	402.09
			<i>For Class 52 Rating, Deduct</i>	-212.96	
			<i>For Class 54 Rating, Add</i>	145.20	
			<i>For Class 55 Rating, Add</i>	322.73	
40 05 19 00-0743	EA		12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,607.29	404.51
			<i>For Class 52 Rating, Deduct</i>	-219.38	
			<i>For Class 54 Rating, Add</i>	149.58	
			<i>For Class 55 Rating, Add</i>	332.47	
40 05 19 00-0744	EA		12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,669.36	406.93
			<i>For Class 52 Rating, Deduct</i>	-225.81	
			<i>For Class 54 Rating, Add</i>	153.96	
			<i>For Class 55 Rating, Add</i>	342.20	
40 05 19 00-0745	EA		12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,731.43	409.35
			<i>For Class 52 Rating, Deduct</i>	-232.23	
			<i>For Class 54 Rating, Add</i>	158.34	
			<i>For Class 55 Rating, Add</i>	351.94	
40 05 19 00-0746	EA		12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,793.50	411.78
			<i>For Class 52 Rating, Deduct</i>	-238.66	
			<i>For Class 54 Rating, Add</i>	162.72	
			<i>For Class 55 Rating, Add</i>	361.67	
40 05 19 00-0747	EA		12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,855.57	414.19
			<i>For Class 52 Rating, Deduct</i>	-245.08	
			<i>For Class 54 Rating, Add</i>	167.10	
			<i>For Class 55 Rating, Add</i>	371.41	
40 05 19 00-0748	EA		12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,917.64	416.62
			<i>For Class 52 Rating, Deduct</i>	-251.50	
			<i>For Class 54 Rating, Add</i>	171.48	
			<i>For Class 55 Rating, Add</i>	381.14	
40 05 19 00-0749	EA		12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,979.71	419.04
			<i>For Class 52 Rating, Deduct</i>	-257.93	
			<i>For Class 54 Rating, Add</i>	175.86	
			<i>For Class 55 Rating, Add</i>	390.88	
40 05 19 00-0750	EA		12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,041.78	421.47
			<i>For Class 52 Rating, Deduct</i>	-264.35	
			<i>For Class 54 Rating, Add</i>	180.24	
			<i>For Class 55 Rating, Add</i>	400.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0751 EA 12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,103.84	423.88
For Class 52 Rating, Deduct	-270.78	
For Class 54 Rating, Add	184.62	
For Class 55 Rating, Add	410.35	
40 05 19 00-0752 EA 12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,165.92	426.31
For Class 52 Rating, Deduct	-277.20	
For Class 54 Rating, Add	189.00	
For Class 55 Rating, Add	420.08	
40 05 19 00-0753 EA 12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,227.99	428.73
For Class 52 Rating, Deduct	-283.62	
For Class 54 Rating, Add	193.38	
For Class 55 Rating, Add	429.82	
40 05 19 00-0754 EA 12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,290.06	431.15
For Class 52 Rating, Deduct	-290.05	
For Class 54 Rating, Add	197.76	
For Class 55 Rating, Add	439.55	
40 05 19 00-0755 14" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-054)</small>		
40 05 19 00-0756 EA 14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,240.56	406.93
For Class 52 Rating, Deduct	-68.64	
For Class 54 Rating, Add	46.80	
For Class 55 Rating, Add	104.02	
40 05 19 00-0757 EA 14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,315.43	409.35
For Class 52 Rating, Deduct	-76.47	
For Class 54 Rating, Add	52.14	
For Class 55 Rating, Add	115.89	
40 05 19 00-0758 EA 14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,390.30	411.78
For Class 52 Rating, Deduct	-84.30	
For Class 54 Rating, Add	57.48	
For Class 55 Rating, Add	127.76	
40 05 19 00-0759 EA 14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,465.17	414.19
For Class 52 Rating, Deduct	-92.14	
For Class 54 Rating, Add	62.82	
For Class 55 Rating, Add	139.63	
40 05 19 00-0760 EA 14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,540.04	416.62
For Class 52 Rating, Deduct	-99.97	
For Class 54 Rating, Add	68.16	
For Class 55 Rating, Add	151.50	
40 05 19 00-0761 EA 14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,614.91	419.04
For Class 52 Rating, Deduct	-107.80	
For Class 54 Rating, Add	73.50	
For Class 55 Rating, Add	163.37	
40 05 19 00-0762 EA 14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,689.78	421.47
For Class 52 Rating, Deduct	-115.63	
For Class 54 Rating, Add	78.84	
For Class 55 Rating, Add	175.24	
40 05 19 00-0763 EA 14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,764.64	423.88
For Class 52 Rating, Deduct	-123.46	
For Class 54 Rating, Add	84.18	
For Class 55 Rating, Add	187.10	
40 05 19 00-0764 EA 14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,839.52	426.31
For Class 52 Rating, Deduct	-131.30	
For Class 54 Rating, Add	89.52	
For Class 55 Rating, Add	198.97	
40 05 19 00-0765 EA 14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,914.39	428.73
For Class 52 Rating, Deduct	-139.13	
For Class 54 Rating, Add	94.86	
For Class 55 Rating, Add	210.84	
40 05 19 00-0766 EA 14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,989.26	431.15
For Class 52 Rating, Deduct	-146.96	
For Class 54 Rating, Add	100.20	
For Class 55 Rating, Add	222.71	
40 05 19 00-0767 EA 14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,064.13	433.57
For Class 52 Rating, Deduct	-154.79	
For Class 54 Rating, Add	105.54	
For Class 55 Rating, Add	234.58	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0768	EA		14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,139.00	436.00
			<i>For Class 52 Rating, Deduct</i>	-162.62	
			<i>For Class 54 Rating, Add</i>	110.88	
			<i>For Class 55 Rating, Add</i>	246.45	
40 05 19 00-0769	EA		14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,213.87	438.41
			<i>For Class 52 Rating, Deduct</i>	-170.46	
			<i>For Class 54 Rating, Add</i>	116.22	
			<i>For Class 55 Rating, Add</i>	258.32	
40 05 19 00-0770	EA		14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,288.74	440.84
			<i>For Class 52 Rating, Deduct</i>	-178.29	
			<i>For Class 54 Rating, Add</i>	121.56	
			<i>For Class 55 Rating, Add</i>	270.19	
40 05 19 00-0771	EA		14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,363.61	443.26
			<i>For Class 52 Rating, Deduct</i>	-186.12	
			<i>For Class 54 Rating, Add</i>	126.90	
			<i>For Class 55 Rating, Add</i>	282.06	
40 05 19 00-0772	EA		14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,438.48	445.68
			<i>For Class 52 Rating, Deduct</i>	-193.95	
			<i>For Class 54 Rating, Add</i>	132.24	
			<i>For Class 55 Rating, Add</i>	293.93	
40 05 19 00-0773	EA		14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,513.35	448.11
			<i>For Class 52 Rating, Deduct</i>	-201.78	
			<i>For Class 54 Rating, Add</i>	137.58	
			<i>For Class 55 Rating, Add</i>	305.79	
40 05 19 00-0774	EA		14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,588.22	450.53
			<i>For Class 52 Rating, Deduct</i>	-209.62	
			<i>For Class 54 Rating, Add</i>	142.92	
			<i>For Class 55 Rating, Add</i>	317.66	
40 05 19 00-0775	EA		14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,663.09	452.96
			<i>For Class 52 Rating, Deduct</i>	-217.45	
			<i>For Class 54 Rating, Add</i>	148.26	
			<i>For Class 55 Rating, Add</i>	329.53	
40 05 19 00-0776	EA		14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,737.95	455.37
			<i>For Class 52 Rating, Deduct</i>	-225.28	
			<i>For Class 54 Rating, Add</i>	153.60	
			<i>For Class 55 Rating, Add</i>	341.40	
40 05 19 00-0777	EA		14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,812.83	457.80
			<i>For Class 52 Rating, Deduct</i>	-233.11	
			<i>For Class 54 Rating, Add</i>	158.94	
			<i>For Class 55 Rating, Add</i>	353.27	
40 05 19 00-0778	EA		14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,887.70	460.22
			<i>For Class 52 Rating, Deduct</i>	-240.94	
			<i>For Class 54 Rating, Add</i>	164.28	
			<i>For Class 55 Rating, Add</i>	365.14	
40 05 19 00-0779	EA		14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,962.57	462.64
			<i>For Class 52 Rating, Deduct</i>	-248.78	
			<i>For Class 54 Rating, Add</i>	169.62	
			<i>For Class 55 Rating, Add</i>	377.01	
40 05 19 00-0780	EA		14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,037.44	465.06
			<i>For Class 52 Rating, Deduct</i>	-256.61	
			<i>For Class 54 Rating, Add</i>	174.96	
			<i>For Class 55 Rating, Add</i>	388.88	
40 05 19 00-0781	EA		14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,112.31	467.49
			<i>For Class 52 Rating, Deduct</i>	-264.44	
			<i>For Class 54 Rating, Add</i>	180.30	
			<i>For Class 55 Rating, Add</i>	400.75	
40 05 19 00-0782	EA		14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,187.18	469.90
			<i>For Class 52 Rating, Deduct</i>	-272.27	
			<i>For Class 54 Rating, Add</i>	185.64	
			<i>For Class 55 Rating, Add</i>	412.62	
40 05 19 00-0783	EA		14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,262.05	472.33
			<i>For Class 52 Rating, Deduct</i>	-280.10	
			<i>For Class 54 Rating, Add</i>	190.98	
			<i>For Class 55 Rating, Add</i>	424.48	
40 05 19 00-0784	EA		14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,336.92	474.75
			<i>For Class 52 Rating, Deduct</i>	-287.94	
			<i>For Class 54 Rating, Add</i>	196.32	
			<i>For Class 55 Rating, Add</i>	436.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0785 EA 14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,411.79	477.17
For Class 52 Rating, Deduct	-295.77	
For Class 54 Rating, Add	201.66	
For Class 55 Rating, Add	448.22	
40 05 19 00-0786 EA 14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,486.66	479.59
For Class 52 Rating, Deduct	-303.60	
For Class 54 Rating, Add	207.00	
For Class 55 Rating, Add	460.09	
40 05 19 00-0787 EA 14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,561.53	482.02
For Class 52 Rating, Deduct	-311.43	
For Class 54 Rating, Add	212.34	
For Class 55 Rating, Add	471.96	
40 05 19 00-0788 EA 14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,636.40	484.44
For Class 52 Rating, Deduct	-319.26	
For Class 54 Rating, Add	217.68	
For Class 55 Rating, Add	483.83	
40 05 19 00-0789 EA 14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,711.26	486.86
For Class 52 Rating, Deduct	-327.10	
For Class 54 Rating, Add	223.02	
For Class 55 Rating, Add	495.70	
40 05 19 00-0790 EA 14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,786.14	489.28
For Class 52 Rating, Deduct	-334.93	
For Class 54 Rating, Add	228.36	
For Class 55 Rating, Add	507.57	
40 05 19 00-0791 EA 14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,861.01	491.71
For Class 52 Rating, Deduct	-342.76	
For Class 54 Rating, Add	233.70	
For Class 55 Rating, Add	519.44	
40 05 19 00-0792 EA 14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,935.88	494.13
For Class 52 Rating, Deduct	-350.59	
For Class 54 Rating, Add	239.04	
For Class 55 Rating, Add	531.31	
40 05 19 00-0793 EA 14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,010.75	496.55
For Class 52 Rating, Deduct	-358.42	
For Class 54 Rating, Add	244.38	
For Class 55 Rating, Add	543.18	
40 05 19 00-0794 16" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0795 EA 16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,443.04	465.06
For Class 52 Rating, Deduct	-81.22	
For Class 54 Rating, Add	55.38	
For Class 55 Rating, Add	123.09	
40 05 19 00-0796 EA 16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,529.91	467.49
For Class 52 Rating, Deduct	-90.38	
For Class 54 Rating, Add	61.62	
For Class 55 Rating, Add	136.96	
40 05 19 00-0797 EA 16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,616.78	469.90
For Class 52 Rating, Deduct	-99.53	
For Class 54 Rating, Add	67.86	
For Class 55 Rating, Add	150.83	
40 05 19 00-0798 EA 16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,703.65	472.33
For Class 52 Rating, Deduct	-108.68	
For Class 54 Rating, Add	74.10	
For Class 55 Rating, Add	164.70	
40 05 19 00-0799 EA 16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,790.52	474.75
For Class 52 Rating, Deduct	-117.83	
For Class 54 Rating, Add	80.34	
For Class 55 Rating, Add	178.57	
40 05 19 00-0800 EA 16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,877.39	477.17
For Class 52 Rating, Deduct	-126.98	
For Class 54 Rating, Add	86.58	
For Class 55 Rating, Add	192.44	
40 05 19 00-0801 EA 16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,964.26	479.59
For Class 52 Rating, Deduct	-136.14	
For Class 54 Rating, Add	92.82	
For Class 55 Rating, Add	206.31	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0802	EA		16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,051.13	482.02
			For Class 52 Rating, Deduct	-145.29	
			For Class 54 Rating, Add	99.06	
			For Class 55 Rating, Add	220.18	
40 05 19 00-0803	EA		16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,138.00	484.44
			For Class 52 Rating, Deduct	-154.44	
			For Class 54 Rating, Add	105.30	
			For Class 55 Rating, Add	234.05	
40 05 19 00-0804	EA		16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,216.86	486.86
			For Class 52 Rating, Deduct	-162.71	
			For Class 54 Rating, Add	110.94	
			For Class 55 Rating, Add	246.58	
40 05 19 00-0805	EA		16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,311.74	489.28
			For Class 52 Rating, Deduct	-172.74	
			For Class 54 Rating, Add	117.78	
			For Class 55 Rating, Add	261.79	
40 05 19 00-0806	EA		16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,398.61	491.71
			For Class 52 Rating, Deduct	-181.90	
			For Class 54 Rating, Add	124.02	
			For Class 55 Rating, Add	275.66	
40 05 19 00-0807	EA		16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,485.48	494.13
			For Class 52 Rating, Deduct	-191.05	
			For Class 54 Rating, Add	130.26	
			For Class 55 Rating, Add	289.52	
40 05 19 00-0808	EA		16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,572.35	496.55
			For Class 52 Rating, Deduct	-200.20	
			For Class 54 Rating, Add	136.50	
			For Class 55 Rating, Add	303.39	
40 05 19 00-0809	EA		16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,659.22	498.98
			For Class 52 Rating, Deduct	-209.35	
			For Class 54 Rating, Add	142.74	
			For Class 55 Rating, Add	317.26	
40 05 19 00-0810	EA		16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,746.09	501.39
			For Class 52 Rating, Deduct	-218.50	
			For Class 54 Rating, Add	148.98	
			For Class 55 Rating, Add	331.13	
40 05 19 00-0811	EA		16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,832.96	503.82
			For Class 52 Rating, Deduct	-227.66	
			For Class 54 Rating, Add	155.22	
			For Class 55 Rating, Add	345.00	
40 05 19 00-0812	EA		16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,919.83	506.24
			For Class 52 Rating, Deduct	-236.81	
			For Class 54 Rating, Add	161.46	
			For Class 55 Rating, Add	358.87	
40 05 19 00-0813	EA		16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,006.70	508.66
			For Class 52 Rating, Deduct	-245.96	
			For Class 54 Rating, Add	167.70	
			For Class 55 Rating, Add	372.74	
40 05 19 00-0814	EA		16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,093.57	511.08
			For Class 52 Rating, Deduct	-255.11	
			For Class 54 Rating, Add	173.94	
			For Class 55 Rating, Add	386.61	
40 05 19 00-0815	EA		16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,180.44	513.51
			For Class 52 Rating, Deduct	-264.26	
			For Class 54 Rating, Add	180.18	
			For Class 55 Rating, Add	400.48	
40 05 19 00-0816	EA		16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,267.31	515.93
			For Class 52 Rating, Deduct	-273.42	
			For Class 54 Rating, Add	186.42	
			For Class 55 Rating, Add	414.35	
40 05 19 00-0817	EA		16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,354.17	518.35
			For Class 52 Rating, Deduct	-282.57	
			For Class 54 Rating, Add	192.66	
			For Class 55 Rating, Add	428.22	
40 05 19 00-0818	EA		16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,441.05	520.77
			For Class 52 Rating, Deduct	-291.72	
			For Class 54 Rating, Add	198.90	
			For Class 55 Rating, Add	442.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0819 EA 16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,527.92	523.20
For Class 52 Rating, Deduct	-300.87	
For Class 54 Rating, Add	205.14	
For Class 55 Rating, Add	455.96	
40 05 19 00-0820 EA 16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,614.79	525.61
For Class 52 Rating, Deduct	-310.02	
For Class 54 Rating, Add	211.38	
For Class 55 Rating, Add	469.83	
40 05 19 00-0821 EA 16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,701.66	528.04
For Class 52 Rating, Deduct	-319.18	
For Class 54 Rating, Add	217.62	
For Class 55 Rating, Add	483.70	
40 05 19 00-0822 EA 16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,788.53	530.46
For Class 52 Rating, Deduct	-328.33	
For Class 54 Rating, Add	223.86	
For Class 55 Rating, Add	497.57	
40 05 19 00-0823 EA 16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,875.40	532.88
For Class 52 Rating, Deduct	-337.48	
For Class 54 Rating, Add	230.10	
For Class 55 Rating, Add	511.44	
40 05 19 00-0824 EA 16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,962.27	535.31
For Class 52 Rating, Deduct	-346.63	
For Class 54 Rating, Add	236.34	
For Class 55 Rating, Add	525.31	
40 05 19 00-0825 EA 16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,049.14	537.73
For Class 52 Rating, Deduct	-355.78	
For Class 54 Rating, Add	242.58	
For Class 55 Rating, Add	539.17	
40 05 19 00-0826 EA 16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,136.01	540.15
For Class 52 Rating, Deduct	-364.94	
For Class 54 Rating, Add	248.82	
For Class 55 Rating, Add	553.04	
40 05 19 00-0827 EA 16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,222.88	542.57
For Class 52 Rating, Deduct	-374.09	
For Class 54 Rating, Add	255.06	
For Class 55 Rating, Add	566.91	
40 05 19 00-0828 EA 16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,309.75	545.00
For Class 52 Rating, Deduct	-383.24	
For Class 54 Rating, Add	261.30	
For Class 55 Rating, Add	580.78	
40 05 19 00-0829 EA 16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,396.62	547.42
For Class 52 Rating, Deduct	-392.39	
For Class 54 Rating, Add	267.54	
For Class 55 Rating, Add	594.65	
40 05 19 00-0830 EA 16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,483.48	549.84
For Class 52 Rating, Deduct	-401.54	
For Class 54 Rating, Add	273.78	
For Class 55 Rating, Add	608.52	
40 05 19 00-0831 EA 16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,570.36	552.26
For Class 52 Rating, Deduct	-410.70	
For Class 54 Rating, Add	280.02	
For Class 55 Rating, Add	622.39	
40 05 19 00-0832 EA 16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,657.23	554.69
For Class 52 Rating, Deduct	-419.85	
For Class 54 Rating, Add	286.26	
For Class 55 Rating, Add	636.26	
40 05 19 00-0833 18" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0834 EA 18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,670.19	524.17
For Class 52 Rating, Deduct	-96.36	
For Class 54 Rating, Add	65.70	
For Class 55 Rating, Add	146.03	
40 05 19 00-0835 EA 18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,769.86	526.59
For Class 52 Rating, Deduct	-106.92	
For Class 54 Rating, Add	72.90	
For Class 55 Rating, Add	162.03	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0836	EA		18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,869.53	529.01
			For Class 52 Rating, Deduct	-117.48	
			For Class 54 Rating, Add	80.10	
			For Class 55 Rating, Add	178.04	
40 05 19 00-0837	EA		18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,969.19	531.44
			For Class 52 Rating, Deduct	-128.04	
			For Class 54 Rating, Add	87.30	
			For Class 55 Rating, Add	194.04	
40 05 19 00-0838	EA		18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,068.87	533.85
			For Class 52 Rating, Deduct	-138.60	
			For Class 54 Rating, Add	94.50	
			For Class 55 Rating, Add	210.04	
40 05 19 00-0839	EA		18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,168.54	536.28
			For Class 52 Rating, Deduct	-149.16	
			For Class 54 Rating, Add	101.70	
			For Class 55 Rating, Add	226.05	
40 05 19 00-0840	EA		18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,268.21	538.70
			For Class 52 Rating, Deduct	-159.72	
			For Class 54 Rating, Add	108.90	
			For Class 55 Rating, Add	242.05	
40 05 19 00-0841	EA		18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,367.87	541.13
			For Class 52 Rating, Deduct	-170.28	
			For Class 54 Rating, Add	116.10	
			For Class 55 Rating, Add	258.05	
40 05 19 00-0842	EA		18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,467.54	543.54
			For Class 52 Rating, Deduct	-180.84	
			For Class 54 Rating, Add	123.30	
			For Class 55 Rating, Add	274.05	
40 05 19 00-0843	EA		18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,567.22	545.97
			For Class 52 Rating, Deduct	-191.40	
			For Class 54 Rating, Add	130.50	
			For Class 55 Rating, Add	290.06	
40 05 19 00-0844	EA		18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,666.89	548.39
			For Class 52 Rating, Deduct	-201.96	
			For Class 54 Rating, Add	137.70	
			For Class 55 Rating, Add	306.06	
40 05 19 00-0845	EA		18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,766.56	550.81
			For Class 52 Rating, Deduct	-212.52	
			For Class 54 Rating, Add	144.90	
			For Class 55 Rating, Add	322.06	
40 05 19 00-0846	EA		18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,866.22	553.23
			For Class 52 Rating, Deduct	-223.08	
			For Class 54 Rating, Add	152.10	
			For Class 55 Rating, Add	338.07	
40 05 19 00-0847	EA		18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,965.90	555.66
			For Class 52 Rating, Deduct	-233.64	
			For Class 54 Rating, Add	159.30	
			For Class 55 Rating, Add	354.07	
40 05 19 00-0848	EA		18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,065.57	558.07
			For Class 52 Rating, Deduct	-244.20	
			For Class 54 Rating, Add	166.50	
			For Class 55 Rating, Add	370.07	
40 05 19 00-0849	EA		18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,165.24	560.50
			For Class 52 Rating, Deduct	-254.76	
			For Class 54 Rating, Add	173.70	
			For Class 55 Rating, Add	386.08	
40 05 19 00-0850	EA		18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,264.90	562.92
			For Class 52 Rating, Deduct	-265.32	
			For Class 54 Rating, Add	180.90	
			For Class 55 Rating, Add	402.08	
40 05 19 00-0851	EA		18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,364.58	565.34
			For Class 52 Rating, Deduct	-275.88	
			For Class 54 Rating, Add	188.10	
			For Class 55 Rating, Add	418.08	
40 05 19 00-0852	EA		18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,464.25	567.77
			For Class 52 Rating, Deduct	-286.44	
			For Class 54 Rating, Add	195.30	
			For Class 55 Rating, Add	434.09	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0853 EA 18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,563.92	570.19
<i>For Class 52 Rating, Deduct</i>	-297.00	
<i>For Class 54 Rating, Add</i>	202.50	
<i>For Class 55 Rating, Add</i>	450.09	
40 05 19 00-0854 EA 18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,663.58	572.62
<i>For Class 52 Rating, Deduct</i>	-307.56	
<i>For Class 54 Rating, Add</i>	209.70	
<i>For Class 55 Rating, Add</i>	466.09	
40 05 19 00-0855 EA 18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,763.25	575.03
<i>For Class 52 Rating, Deduct</i>	-318.12	
<i>For Class 54 Rating, Add</i>	216.90	
<i>For Class 55 Rating, Add</i>	482.10	
40 05 19 00-0856 EA 18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,862.93	577.46
<i>For Class 52 Rating, Deduct</i>	-328.68	
<i>For Class 54 Rating, Add</i>	224.10	
<i>For Class 55 Rating, Add</i>	498.10	
40 05 19 00-0857 EA 18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,962.60	579.88
<i>For Class 52 Rating, Deduct</i>	-339.24	
<i>For Class 54 Rating, Add</i>	231.30	
<i>For Class 55 Rating, Add</i>	514.10	
40 05 19 00-0858 EA 18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,062.27	582.30
<i>For Class 52 Rating, Deduct</i>	-349.80	
<i>For Class 54 Rating, Add</i>	238.50	
<i>For Class 55 Rating, Add</i>	530.11	
40 05 19 00-0859 EA 18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,161.93	584.72
<i>For Class 52 Rating, Deduct</i>	-360.36	
<i>For Class 54 Rating, Add</i>	245.70	
<i>For Class 55 Rating, Add</i>	546.11	
40 05 19 00-0860 EA 18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,261.61	587.15
<i>For Class 52 Rating, Deduct</i>	-370.92	
<i>For Class 54 Rating, Add</i>	252.90	
<i>For Class 55 Rating, Add</i>	562.11	
40 05 19 00-0861 EA 18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,361.28	589.56
<i>For Class 52 Rating, Deduct</i>	-381.48	
<i>For Class 54 Rating, Add</i>	260.10	
<i>For Class 55 Rating, Add</i>	578.12	
40 05 19 00-0862 EA 18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,460.95	591.99
<i>For Class 52 Rating, Deduct</i>	-392.04	
<i>For Class 54 Rating, Add</i>	267.30	
<i>For Class 55 Rating, Add</i>	594.12	
40 05 19 00-0863 EA 18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,560.61	594.41
<i>For Class 52 Rating, Deduct</i>	-402.60	
<i>For Class 54 Rating, Add</i>	274.50	
<i>For Class 55 Rating, Add</i>	610.12	
40 05 19 00-0864 EA 18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,660.29	596.83
<i>For Class 52 Rating, Deduct</i>	-413.16	
<i>For Class 54 Rating, Add</i>	281.70	
<i>For Class 55 Rating, Add</i>	626.13	
40 05 19 00-0865 EA 18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,759.96	599.25
<i>For Class 52 Rating, Deduct</i>	-423.72	
<i>For Class 54 Rating, Add</i>	288.90	
<i>For Class 55 Rating, Add</i>	642.13	
40 05 19 00-0866 EA 18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,859.63	601.68
<i>For Class 52 Rating, Deduct</i>	-434.28	
<i>For Class 54 Rating, Add</i>	296.10	
<i>For Class 55 Rating, Add</i>	658.13	
40 05 19 00-0867 EA 18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,959.29	604.10
<i>For Class 52 Rating, Deduct</i>	-444.84	
<i>For Class 54 Rating, Add</i>	303.30	
<i>For Class 55 Rating, Add</i>	674.13	
40 05 19 00-0868 EA 18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,058.96	606.52
<i>For Class 52 Rating, Deduct</i>	-455.40	
<i>For Class 54 Rating, Add</i>	310.50	
<i>For Class 55 Rating, Add</i>	690.14	
40 05 19 00-0869 EA 18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,158.64	608.94
<i>For Class 52 Rating, Deduct</i>	-465.96	
<i>For Class 54 Rating, Add</i>	317.70	
<i>For Class 55 Rating, Add</i>	706.14	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0870	EA		18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,258.31	611.37
			<i>For Class 52 Rating, Deduct</i>	-476.52	
			<i>For Class 54 Rating, Add</i>	324.90	
			<i>For Class 55 Rating, Add</i>	722.14	
40 05 19 00-0871	EA		18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,357.98	613.79
			<i>For Class 52 Rating, Deduct</i>	-487.08	
			<i>For Class 54 Rating, Add</i>	332.10	
			<i>For Class 55 Rating, Add</i>	738.15	
40 05 19 00-0872			20" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0873	EA		20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,929.69	598.28
			<i>For Class 52 Rating, Deduct</i>	-112.55	
			<i>For Class 54 Rating, Add</i>	76.74	
			<i>For Class 55 Rating, Add</i>	170.57	
40 05 19 00-0874	EA		20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,043.76	600.71
			<i>For Class 52 Rating, Deduct</i>	-124.70	
			<i>For Class 54 Rating, Add</i>	85.02	
			<i>For Class 55 Rating, Add</i>	188.97	
40 05 19 00-0875	EA		20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,157.83	603.12
			<i>For Class 52 Rating, Deduct</i>	-136.84	
			<i>For Class 54 Rating, Add</i>	93.30	
			<i>For Class 55 Rating, Add</i>	207.37	
40 05 19 00-0876	EA		20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,271.90	605.55
			<i>For Class 52 Rating, Deduct</i>	-148.98	
			<i>For Class 54 Rating, Add</i>	101.58	
			<i>For Class 55 Rating, Add</i>	225.78	
40 05 19 00-0877	EA		20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,385.97	607.97
			<i>For Class 52 Rating, Deduct</i>	-161.13	
			<i>For Class 54 Rating, Add</i>	109.86	
			<i>For Class 55 Rating, Add</i>	244.18	
40 05 19 00-0878	EA		20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,500.04	610.40
			<i>For Class 52 Rating, Deduct</i>	-173.27	
			<i>For Class 54 Rating, Add</i>	118.14	
			<i>For Class 55 Rating, Add</i>	262.59	
40 05 19 00-0879	EA		20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,614.10	612.81
			<i>For Class 52 Rating, Deduct</i>	-185.42	
			<i>For Class 54 Rating, Add</i>	126.42	
			<i>For Class 55 Rating, Add</i>	280.99	
40 05 19 00-0880	EA		20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,728.18	615.24
			<i>For Class 52 Rating, Deduct</i>	-197.56	
			<i>For Class 54 Rating, Add</i>	134.70	
			<i>For Class 55 Rating, Add</i>	299.39	
40 05 19 00-0881	EA		20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,842.25	617.66
			<i>For Class 52 Rating, Deduct</i>	-209.70	
			<i>For Class 54 Rating, Add</i>	142.98	
			<i>For Class 55 Rating, Add</i>	317.80	
40 05 19 00-0882	EA		20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,956.32	620.08
			<i>For Class 52 Rating, Deduct</i>	-221.85	
			<i>For Class 54 Rating, Add</i>	151.26	
			<i>For Class 55 Rating, Add</i>	336.20	
40 05 19 00-0883	EA		20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,070.38	622.50
			<i>For Class 52 Rating, Deduct</i>	-233.99	
			<i>For Class 54 Rating, Add</i>	159.54	
			<i>For Class 55 Rating, Add</i>	354.60	
40 05 19 00-0884	EA		20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,184.46	624.93
			<i>For Class 52 Rating, Deduct</i>	-246.14	
			<i>For Class 54 Rating, Add</i>	167.82	
			<i>For Class 55 Rating, Add</i>	373.01	
40 05 19 00-0885	EA		20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,298.53	627.35
			<i>For Class 52 Rating, Deduct</i>	-258.28	
			<i>For Class 54 Rating, Add</i>	176.10	
			<i>For Class 55 Rating, Add</i>	391.41	
40 05 19 00-0886	EA		20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,412.60	629.77
			<i>For Class 52 Rating, Deduct</i>	-270.42	
			<i>For Class 54 Rating, Add</i>	184.38	
			<i>For Class 55 Rating, Add</i>	409.82	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0887 EA 20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,526.67	632.20
For Class 52 Rating, Deduct	-282.57	
For Class 54 Rating, Add	192.66	
For Class 55 Rating, Add	428.22	
40 05 19 00-0888 EA 20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,640.74	634.61
For Class 52 Rating, Deduct	-294.71	
For Class 54 Rating, Add	200.94	
For Class 55 Rating, Add	446.62	
40 05 19 00-0889 EA 20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,754.81	637.04
For Class 52 Rating, Deduct	-306.86	
For Class 54 Rating, Add	209.22	
For Class 55 Rating, Add	465.03	
40 05 19 00-0890 EA 20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,868.88	639.46
For Class 52 Rating, Deduct	-319.00	
For Class 54 Rating, Add	217.50	
For Class 55 Rating, Add	483.43	
40 05 19 00-0891 EA 20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,982.95	641.89
For Class 52 Rating, Deduct	-331.14	
For Class 54 Rating, Add	225.78	
For Class 55 Rating, Add	501.83	
40 05 19 00-0892 EA 20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,097.01	644.30
For Class 52 Rating, Deduct	-343.29	
For Class 54 Rating, Add	234.06	
For Class 55 Rating, Add	520.24	
40 05 19 00-0893 EA 20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,211.09	646.73
For Class 52 Rating, Deduct	-355.43	
For Class 54 Rating, Add	242.34	
For Class 55 Rating, Add	538.64	
40 05 19 00-0894 EA 20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,325.16	649.15
For Class 52 Rating, Deduct	-367.58	
For Class 54 Rating, Add	250.62	
For Class 55 Rating, Add	557.04	
40 05 19 00-0895 EA 20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,439.23	651.57
For Class 52 Rating, Deduct	-379.72	
For Class 54 Rating, Add	258.90	
For Class 55 Rating, Add	575.45	
40 05 19 00-0896 EA 20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,553.29	653.99
For Class 52 Rating, Deduct	-391.86	
For Class 54 Rating, Add	267.18	
For Class 55 Rating, Add	593.85	
40 05 19 00-0897 EA 20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,667.37	656.42
For Class 52 Rating, Deduct	-404.01	
For Class 54 Rating, Add	275.46	
For Class 55 Rating, Add	612.26	
40 05 19 00-0898 EA 20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,781.44	658.83
For Class 52 Rating, Deduct	-416.15	
For Class 54 Rating, Add	283.74	
For Class 55 Rating, Add	630.66	
40 05 19 00-0899 EA 20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,895.51	661.26
For Class 52 Rating, Deduct	-428.30	
For Class 54 Rating, Add	292.02	
For Class 55 Rating, Add	649.06	
40 05 19 00-0900 EA 20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,009.58	663.68
For Class 52 Rating, Deduct	-440.44	
For Class 54 Rating, Add	300.30	
For Class 55 Rating, Add	667.47	
40 05 19 00-0901 EA 20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,123.65	666.10
For Class 52 Rating, Deduct	-452.58	
For Class 54 Rating, Add	308.58	
For Class 55 Rating, Add	685.87	
40 05 19 00-0902 EA 20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,237.72	668.53
For Class 52 Rating, Deduct	-464.73	
For Class 54 Rating, Add	316.86	
For Class 55 Rating, Add	704.27	
40 05 19 00-0903 EA 20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,351.79	670.95
For Class 52 Rating, Deduct	-476.87	
For Class 54 Rating, Add	325.14	
For Class 55 Rating, Add	722.68	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0904	EA		20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,465.86	673.38
			<i>For Class 52 Rating, Deduct</i>	-489.02	
			<i>For Class 54 Rating, Add</i>	333.42	
			<i>For Class 55 Rating, Add</i>	741.08	
40 05 19 00-0905	EA		20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,579.93	675.79
			<i>For Class 52 Rating, Deduct</i>	-501.16	
			<i>For Class 54 Rating, Add</i>	341.70	
			<i>For Class 55 Rating, Add</i>	759.49	
40 05 19 00-0906	EA		20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,694.00	678.22
			<i>For Class 52 Rating, Deduct</i>	-513.30	
			<i>For Class 54 Rating, Add</i>	349.98	
			<i>For Class 55 Rating, Add</i>	777.89	
40 05 19 00-0907	EA		20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,808.07	680.64
			<i>For Class 52 Rating, Deduct</i>	-525.45	
			<i>For Class 54 Rating, Add</i>	358.26	
			<i>For Class 55 Rating, Add</i>	796.29	
40 05 19 00-0908	EA		20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,922.14	683.06
			<i>For Class 52 Rating, Deduct</i>	-537.59	
			<i>For Class 54 Rating, Add</i>	366.54	
			<i>For Class 55 Rating, Add</i>	814.70	
40 05 19 00-0909	EA		20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,036.20	685.48
			<i>For Class 52 Rating, Deduct</i>	-549.74	
			<i>For Class 54 Rating, Add</i>	374.82	
			<i>For Class 55 Rating, Add</i>	833.10	
40 05 19 00-0910	EA		20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,150.28	687.91
			<i>For Class 52 Rating, Deduct</i>	-561.88	
			<i>For Class 54 Rating, Add</i>	383.10	
			<i>For Class 55 Rating, Add</i>	851.50	
40 05 19 00-0911			24" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0912	EA		24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,364.44	707.28
			<i>For Class 52 Rating, Deduct</i>	-142.21	
			<i>For Class 54 Rating, Add</i>	96.96	
			<i>For Class 55 Rating, Add</i>	215.51	
40 05 19 00-0913	EA		24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,504.91	709.70
			<i>For Class 52 Rating, Deduct</i>	-157.26	
			<i>For Class 54 Rating, Add</i>	107.22	
			<i>For Class 55 Rating, Add</i>	238.31	
40 05 19 00-0914	EA		24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,645.38	712.13
			<i>For Class 52 Rating, Deduct</i>	-172.30	
			<i>For Class 54 Rating, Add</i>	117.48	
			<i>For Class 55 Rating, Add</i>	261.12	
40 05 19 00-0915	EA		24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,785.85	714.55
			<i>For Class 52 Rating, Deduct</i>	-187.35	
			<i>For Class 54 Rating, Add</i>	127.74	
			<i>For Class 55 Rating, Add</i>	283.92	
40 05 19 00-0916	EA		24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,926.31	716.97
			<i>For Class 52 Rating, Deduct</i>	-202.40	
			<i>For Class 54 Rating, Add</i>	138.00	
			<i>For Class 55 Rating, Add</i>	306.73	
40 05 19 00-0917	EA		24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,066.79	719.40
			<i>For Class 52 Rating, Deduct</i>	-217.45	
			<i>For Class 54 Rating, Add</i>	148.26	
			<i>For Class 55 Rating, Add</i>	329.53	
40 05 19 00-0918	EA		24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,207.26	721.81
			<i>For Class 52 Rating, Deduct</i>	-232.50	
			<i>For Class 54 Rating, Add</i>	158.52	
			<i>For Class 55 Rating, Add</i>	352.34	
40 05 19 00-0919	EA		24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,347.73	724.24
			<i>For Class 52 Rating, Deduct</i>	-247.54	
			<i>For Class 54 Rating, Add</i>	168.78	
			<i>For Class 55 Rating, Add</i>	375.14	
40 05 19 00-0920	EA		24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,488.20	726.66
			<i>For Class 52 Rating, Deduct</i>	-262.59	
			<i>For Class 54 Rating, Add</i>	179.04	
			<i>For Class 55 Rating, Add</i>	397.95	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0921 EA 24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,628.67	729.08
<i>For Class 52 Rating, Deduct</i>	-277.64	
<i>For Class 54 Rating, Add</i>	189.30	
<i>For Class 55 Rating, Add</i>	420.75	
40 05 19 00-0922 EA 24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,769.14	731.50
<i>For Class 52 Rating, Deduct</i>	-292.69	
<i>For Class 54 Rating, Add</i>	199.56	
<i>For Class 55 Rating, Add</i>	443.56	
40 05 19 00-0923 EA 24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,909.61	733.93
<i>For Class 52 Rating, Deduct</i>	-307.74	
<i>For Class 54 Rating, Add</i>	209.82	
<i>For Class 55 Rating, Add</i>	466.36	
40 05 19 00-0924 EA 24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,050.08	736.35
<i>For Class 52 Rating, Deduct</i>	-322.78	
<i>For Class 54 Rating, Add</i>	220.08	
<i>For Class 55 Rating, Add</i>	489.16	
40 05 19 00-0925 EA 24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,190.55	738.77
<i>For Class 52 Rating, Deduct</i>	-337.83	
<i>For Class 54 Rating, Add</i>	230.34	
<i>For Class 55 Rating, Add</i>	511.97	
40 05 19 00-0926 EA 24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,331.02	741.19
<i>For Class 52 Rating, Deduct</i>	-352.88	
<i>For Class 54 Rating, Add</i>	240.60	
<i>For Class 55 Rating, Add</i>	534.77	
40 05 19 00-0927 EA 24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,471.49	743.62
<i>For Class 52 Rating, Deduct</i>	-367.93	
<i>For Class 54 Rating, Add</i>	250.86	
<i>For Class 55 Rating, Add</i>	557.58	
40 05 19 00-0928 EA 24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,611.96	746.03
<i>For Class 52 Rating, Deduct</i>	-382.98	
<i>For Class 54 Rating, Add</i>	261.12	
<i>For Class 55 Rating, Add</i>	580.38	
40 05 19 00-0929 EA 24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,752.42	748.46
<i>For Class 52 Rating, Deduct</i>	-398.02	
<i>For Class 54 Rating, Add</i>	271.38	
<i>For Class 55 Rating, Add</i>	603.19	
40 05 19 00-0930 EA 24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,892.90	750.88
<i>For Class 52 Rating, Deduct</i>	-413.07	
<i>For Class 54 Rating, Add</i>	281.64	
<i>For Class 55 Rating, Add</i>	625.99	
40 05 19 00-0931 EA 24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,033.37	753.30
<i>For Class 52 Rating, Deduct</i>	-428.12	
<i>For Class 54 Rating, Add</i>	291.90	
<i>For Class 55 Rating, Add</i>	648.80	
40 05 19 00-0932 EA 24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,173.84	755.72
<i>For Class 52 Rating, Deduct</i>	-443.17	
<i>For Class 54 Rating, Add</i>	302.16	
<i>For Class 55 Rating, Add</i>	671.60	
40 05 19 00-0933 EA 24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,314.31	758.15
<i>For Class 52 Rating, Deduct</i>	-458.22	
<i>For Class 54 Rating, Add</i>	312.42	
<i>For Class 55 Rating, Add</i>	694.41	
40 05 19 00-0934 EA 24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,454.78	760.57
<i>For Class 52 Rating, Deduct</i>	-473.26	
<i>For Class 54 Rating, Add</i>	322.68	
<i>For Class 55 Rating, Add</i>	717.21	
40 05 19 00-0935 EA 24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,595.25	762.99
<i>For Class 52 Rating, Deduct</i>	-488.31	
<i>For Class 54 Rating, Add</i>	332.94	
<i>For Class 55 Rating, Add</i>	740.01	
40 05 19 00-0936 EA 24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,735.72	765.42
<i>For Class 52 Rating, Deduct</i>	-503.36	
<i>For Class 54 Rating, Add</i>	343.20	
<i>For Class 55 Rating, Add</i>	762.82	
40 05 19 00-0937 EA 24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,876.19	767.84
<i>For Class 52 Rating, Deduct</i>	-518.41	
<i>For Class 54 Rating, Add</i>	353.46	
<i>For Class 55 Rating, Add</i>	785.62	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0938	EA		24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,016.66	770.26
			<i>For Class 52 Rating, Deduct</i>	-533.46	
			<i>For Class 54 Rating, Add</i>	363.72	
			<i>For Class 55 Rating, Add</i>	808.43	
40 05 19 00-0939	EA		24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,157.13	772.68
			<i>For Class 52 Rating, Deduct</i>	-548.50	
			<i>For Class 54 Rating, Add</i>	373.98	
			<i>For Class 55 Rating, Add</i>	831.23	
40 05 19 00-0940	EA		24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,297.60	775.11
			<i>For Class 52 Rating, Deduct</i>	-563.55	
			<i>For Class 54 Rating, Add</i>	384.24	
			<i>For Class 55 Rating, Add</i>	854.04	
40 05 19 00-0941	EA		24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,500.46	818.70
			<i>For Class 52 Rating, Deduct</i>	-578.60	
			<i>For Class 54 Rating, Add</i>	394.50	
			<i>For Class 55 Rating, Add</i>	876.84	
40 05 19 00-0942	EA		24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,640.93	821.13
			<i>For Class 52 Rating, Deduct</i>	-593.65	
			<i>For Class 54 Rating, Add</i>	404.76	
			<i>For Class 55 Rating, Add</i>	899.65	
40 05 19 00-0943	EA		24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,781.40	823.54
			<i>For Class 52 Rating, Deduct</i>	-608.70	
			<i>For Class 54 Rating, Add</i>	415.02	
			<i>For Class 55 Rating, Add</i>	922.45	
40 05 19 00-0944	EA		24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,921.87	825.97
			<i>For Class 52 Rating, Deduct</i>	-623.74	
			<i>For Class 54 Rating, Add</i>	425.28	
			<i>For Class 55 Rating, Add</i>	945.26	
40 05 19 00-0945	EA		24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,062.34	828.39
			<i>For Class 52 Rating, Deduct</i>	-638.79	
			<i>For Class 54 Rating, Add</i>	435.54	
			<i>For Class 55 Rating, Add</i>	968.06	
40 05 19 00-0946	EA		24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,202.81	830.82
			<i>For Class 52 Rating, Deduct</i>	-653.84	
			<i>For Class 54 Rating, Add</i>	445.80	
			<i>For Class 55 Rating, Add</i>	990.86	
40 05 19 00-0947	EA		24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,343.28	833.23
			<i>For Class 52 Rating, Deduct</i>	-668.89	
			<i>For Class 54 Rating, Add</i>	456.06	
			<i>For Class 55 Rating, Add</i>	1,013.67	
40 05 19 00-0948	EA		24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,483.75	835.66
			<i>For Class 52 Rating, Deduct</i>	-683.94	
			<i>For Class 54 Rating, Add</i>	466.32	
			<i>For Class 55 Rating, Add</i>	1,036.47	
40 05 19 00-0949	EA		24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,624.22	838.08
			<i>For Class 52 Rating, Deduct</i>	-698.98	
			<i>For Class 54 Rating, Add</i>	476.58	
			<i>For Class 55 Rating, Add</i>	1,059.28	
40 05 19 00-0950			30" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0954)</small>		
40 05 19 00-0951	EA		30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,576.04	997.94
			<i>For Class 52 Rating, Deduct</i>	-227.04	
			<i>For Class 54 Rating, Add</i>	154.80	
			<i>For Class 55 Rating, Add</i>	344.07	
40 05 19 00-0952	EA		30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,777.30	1,000.37
			<i>For Class 52 Rating, Deduct</i>	-248.78	
			<i>For Class 54 Rating, Add</i>	169.62	
			<i>For Class 55 Rating, Add</i>	377.01	
40 05 19 00-0953	EA		30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,978.58	1,002.79
			<i>For Class 52 Rating, Deduct</i>	-270.51	
			<i>For Class 54 Rating, Add</i>	184.44	
			<i>For Class 55 Rating, Add</i>	409.95	
40 05 19 00-0954	EA		30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,179.85	1,005.21
			<i>For Class 52 Rating, Deduct</i>	-292.25	
			<i>For Class 54 Rating, Add</i>	199.26	
			<i>For Class 55 Rating, Add</i>	442.89	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0955 EA 30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,381.12	1,007.63
For Class 52 Rating, Deduct	-313.98	
For Class 54 Rating, Add	214.08	
For Class 55 Rating, Add	475.83	
40 05 19 00-0956 EA 30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,582.38	1,010.06
For Class 52 Rating, Deduct	-335.72	
For Class 54 Rating, Add	228.90	
For Class 55 Rating, Add	508.77	
40 05 19 00-0957 EA 30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,783.66	1,012.48
For Class 52 Rating, Deduct	-357.46	
For Class 54 Rating, Add	243.72	
For Class 55 Rating, Add	541.71	
40 05 19 00-0958 EA 30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,984.93	1,014.90
For Class 52 Rating, Deduct	-379.19	
For Class 54 Rating, Add	258.54	
For Class 55 Rating, Add	574.65	
40 05 19 00-0959 EA 30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,186.20	1,017.32
For Class 52 Rating, Deduct	-400.93	
For Class 54 Rating, Add	273.36	
For Class 55 Rating, Add	607.59	
40 05 19 00-0960 EA 30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,387.47	1,019.75
For Class 52 Rating, Deduct	-422.66	
For Class 54 Rating, Add	288.18	
For Class 55 Rating, Add	640.53	
40 05 19 00-0961 EA 30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,588.74	1,022.16
For Class 52 Rating, Deduct	-444.40	
For Class 54 Rating, Add	303.00	
For Class 55 Rating, Add	673.47	
40 05 19 00-0962 EA 30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,790.01	1,024.59
For Class 52 Rating, Deduct	-466.14	
For Class 54 Rating, Add	317.82	
For Class 55 Rating, Add	706.41	
40 05 19 00-0963 EA 30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,991.28	1,027.02
For Class 52 Rating, Deduct	-487.87	
For Class 54 Rating, Add	332.64	
For Class 55 Rating, Add	739.35	
40 05 19 00-0964 EA 30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,192.55	1,029.43
For Class 52 Rating, Deduct	-509.61	
For Class 54 Rating, Add	347.46	
For Class 55 Rating, Add	772.29	
40 05 19 00-0965 EA 30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,393.81	1,031.86
For Class 52 Rating, Deduct	-531.34	
For Class 54 Rating, Add	362.28	
For Class 55 Rating, Add	805.23	
40 05 19 00-0966 EA 30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,595.09	1,034.28
For Class 52 Rating, Deduct	-553.08	
For Class 54 Rating, Add	377.10	
For Class 55 Rating, Add	838.17	
40 05 19 00-0967 EA 30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,796.36	1,036.70
For Class 52 Rating, Deduct	-574.82	
For Class 54 Rating, Add	391.92	
For Class 55 Rating, Add	871.11	
40 05 19 00-0968 EA 30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,997.63	1,039.12
For Class 52 Rating, Deduct	-596.55	
For Class 54 Rating, Add	406.74	
For Class 55 Rating, Add	904.05	
40 05 19 00-0969 EA 30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,198.89	1,041.55
For Class 52 Rating, Deduct	-618.29	
For Class 54 Rating, Add	421.56	
For Class 55 Rating, Add	936.99	
40 05 19 00-0970 EA 30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,400.17	1,043.96
For Class 52 Rating, Deduct	-640.02	
For Class 54 Rating, Add	436.38	
For Class 55 Rating, Add	969.93	
40 05 19 00-0971 EA 30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,601.44	1,046.39
For Class 52 Rating, Deduct	-661.76	
For Class 54 Rating, Add	451.20	
For Class 55 Rating, Add	1,002.87	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0972	EA		30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,802.71	1,048.81
			For Class 52 Rating, Deduct	-683.50	
			For Class 54 Rating, Add	466.02	
			For Class 55 Rating, Add	1,035.81	
40 05 19 00-0973	EA		30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,003.98	1,051.24
			For Class 52 Rating, Deduct	-705.23	
			For Class 54 Rating, Add	480.84	
			For Class 55 Rating, Add	1,068.75	
40 05 19 00-0974	EA		30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,205.25	1,053.65
			For Class 52 Rating, Deduct	-726.97	
			For Class 54 Rating, Add	495.66	
			For Class 55 Rating, Add	1,101.69	
40 05 19 00-0975	EA		30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,406.52	1,056.08
			For Class 52 Rating, Deduct	-748.70	
			For Class 54 Rating, Add	510.48	
			For Class 55 Rating, Add	1,134.63	
40 05 19 00-0976	EA		30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,607.79	1,058.50
			For Class 52 Rating, Deduct	-770.44	
			For Class 54 Rating, Add	525.30	
			For Class 55 Rating, Add	1,167.57	
40 05 19 00-0977	EA		30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,809.06	1,060.92
			For Class 52 Rating, Deduct	-792.18	
			For Class 54 Rating, Add	540.12	
			For Class 55 Rating, Add	1,200.51	
40 05 19 00-0978	EA		30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,010.32	1,063.34
			For Class 52 Rating, Deduct	-813.91	
			For Class 54 Rating, Add	554.94	
			For Class 55 Rating, Add	1,233.45	
40 05 19 00-0979	EA		30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,211.60	1,065.77
			For Class 52 Rating, Deduct	-835.65	
			For Class 54 Rating, Add	569.76	
			For Class 55 Rating, Add	1,266.39	
40 05 19 00-0980	EA		30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,412.87	1,068.19
			For Class 52 Rating, Deduct	-857.38	
			For Class 54 Rating, Add	584.58	
			For Class 55 Rating, Add	1,299.33	
40 05 19 00-0981	EA		30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,614.14	1,070.61
			For Class 52 Rating, Deduct	-879.12	
			For Class 54 Rating, Add	599.40	
			For Class 55 Rating, Add	1,332.27	
40 05 19 00-0982	EA		30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,815.40	1,073.04
			For Class 52 Rating, Deduct	-900.86	
			For Class 54 Rating, Add	614.22	
			For Class 55 Rating, Add	1,365.21	
40 05 19 00-0983	EA		30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,016.68	1,075.46
			For Class 52 Rating, Deduct	-922.59	
			For Class 54 Rating, Add	629.04	
			For Class 55 Rating, Add	1,398.15	
40 05 19 00-0984	EA		30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,217.95	1,077.88
			For Class 52 Rating, Deduct	-944.33	
			For Class 54 Rating, Add	643.86	
			For Class 55 Rating, Add	1,431.09	
40 05 19 00-0985	EA		30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,419.22	1,080.30
			For Class 52 Rating, Deduct	-966.06	
			For Class 54 Rating, Add	658.68	
			For Class 55 Rating, Add	1,464.03	
40 05 19 00-0986	EA		30" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,620.49	1,082.73
			For Class 52 Rating, Deduct	-987.80	
			For Class 54 Rating, Add	673.50	
			For Class 55 Rating, Add	1,496.97	
40 05 19 00-0987	EA		30" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,821.76	1,085.14
			For Class 52 Rating, Deduct	-1,009.54	
			For Class 54 Rating, Add	688.32	
			For Class 55 Rating, Add	1,529.91	
40 05 19 00-0988	EA		30" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,023.03	1,087.57
			For Class 52 Rating, Deduct	-1,031.27	
			For Class 54 Rating, Add	703.14	
			For Class 55 Rating, Add	1,562.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0989 36" Flanged End x Grooved End (FxD), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0990 EA 36" Flanged x Grooved (FxD), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,825.34	1,264.39
For Class 52 Rating, Deduct	-320.06	
For Class 54 Rating, Add	218.22	
For Class 55 Rating, Add	485.03	
40 05 19 00-0991 EA 36" Flanged x Grooved (FxD), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,097.81	1,266.81
For Class 52 Rating, Deduct	-349.62	
For Class 54 Rating, Add	238.38	
For Class 55 Rating, Add	529.84	
40 05 19 00-0992 EA 36" Flanged x Grooved (FxD), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,370.28	1,269.23
For Class 52 Rating, Deduct	-379.19	
For Class 54 Rating, Add	258.54	
For Class 55 Rating, Add	574.65	
40 05 19 00-0993 EA 36" Flanged x Grooved (FxD), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,642.74	1,271.66
For Class 52 Rating, Deduct	-408.76	
For Class 54 Rating, Add	278.70	
For Class 55 Rating, Add	619.46	
40 05 19 00-0994 EA 36" Flanged x Grooved (FxD), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,915.22	1,274.07
For Class 52 Rating, Deduct	-438.33	
For Class 54 Rating, Add	298.86	
For Class 55 Rating, Add	664.27	
40 05 19 00-0995 EA 36" Flanged x Grooved (FxD), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,187.69	1,276.50
For Class 52 Rating, Deduct	-467.90	
For Class 54 Rating, Add	319.02	
For Class 55 Rating, Add	709.08	
40 05 19 00-0996 EA 36" Flanged x Grooved (FxD), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,460.16	1,278.92
For Class 52 Rating, Deduct	-497.46	
For Class 54 Rating, Add	339.18	
For Class 55 Rating, Add	753.88	
40 05 19 00-0997 EA 36" Flanged x Grooved (FxD), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,732.63	1,281.34
For Class 52 Rating, Deduct	-527.03	
For Class 54 Rating, Add	359.34	
For Class 55 Rating, Add	798.69	
40 05 19 00-0998 EA 36" Flanged x Grooved (FxD), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,005.10	1,283.76
For Class 52 Rating, Deduct	-556.60	
For Class 54 Rating, Add	379.50	
For Class 55 Rating, Add	843.50	
40 05 19 00-0999 EA 36" Flanged x Grooved (FxD), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,277.57	1,286.19
For Class 52 Rating, Deduct	-586.17	
For Class 54 Rating, Add	399.66	
For Class 55 Rating, Add	888.31	
40 05 19 00-1000 EA 36" Flanged x Grooved (FxD), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,550.04	1,288.60
For Class 52 Rating, Deduct	-615.74	
For Class 54 Rating, Add	419.82	
For Class 55 Rating, Add	933.12	
40 05 19 00-1001 EA 36" Flanged x Grooved (FxD), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,822.51	1,291.03
For Class 52 Rating, Deduct	-645.30	
For Class 54 Rating, Add	439.98	
For Class 55 Rating, Add	977.93	
40 05 19 00-1002 EA 36" Flanged x Grooved (FxD), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,094.97	1,293.46
For Class 52 Rating, Deduct	-674.87	
For Class 54 Rating, Add	460.14	
For Class 55 Rating, Add	1,022.74	
40 05 19 00-1003 EA 36" Flanged x Grooved (FxD), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,367.45	1,295.88
For Class 52 Rating, Deduct	-704.44	
For Class 54 Rating, Add	480.30	
For Class 55 Rating, Add	1,067.55	
40 05 19 00-1004 EA 36" Flanged x Grooved (FxD), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,639.92	1,298.30
For Class 52 Rating, Deduct	-734.01	
For Class 54 Rating, Add	500.46	
For Class 55 Rating, Add	1,112.36	
40 05 19 00-1005 EA 36" Flanged x Grooved (FxD), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,912.39	1,300.72
For Class 52 Rating, Deduct	-763.58	
For Class 54 Rating, Add	520.62	
For Class 55 Rating, Add	1,157.16	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1006	EA		36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,184.85	1,303.15
			<i>For Class 52 Rating, Deduct</i>	-793.14	
			<i>For Class 54 Rating, Add</i>	540.78	
			<i>For Class 55 Rating, Add</i>	1,201.97	
40 05 19 00-1007	EA		36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,457.33	1,305.56
			<i>For Class 52 Rating, Deduct</i>	-822.71	
			<i>For Class 54 Rating, Add</i>	560.94	
			<i>For Class 55 Rating, Add</i>	1,246.78	
40 05 19 00-1008	EA		36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,729.80	1,307.99
			<i>For Class 52 Rating, Deduct</i>	-852.28	
			<i>For Class 54 Rating, Add</i>	581.10	
			<i>For Class 55 Rating, Add</i>	1,291.59	
40 05 19 00-1009	EA		36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,002.27	1,310.41
			<i>For Class 52 Rating, Deduct</i>	-881.85	
			<i>For Class 54 Rating, Add</i>	601.26	
			<i>For Class 55 Rating, Add</i>	1,336.40	
40 05 19 00-1010	EA		36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,274.74	1,312.83
			<i>For Class 52 Rating, Deduct</i>	-911.42	
			<i>For Class 54 Rating, Add</i>	621.42	
			<i>For Class 55 Rating, Add</i>	1,381.21	
40 05 19 00-1011	EA		36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,547.21	1,315.25
			<i>For Class 52 Rating, Deduct</i>	-940.98	
			<i>For Class 54 Rating, Add</i>	641.58	
			<i>For Class 55 Rating, Add</i>	1,426.02	
40 05 19 00-1012	EA		36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,819.68	1,317.68
			<i>For Class 52 Rating, Deduct</i>	-970.55	
			<i>For Class 54 Rating, Add</i>	661.74	
			<i>For Class 55 Rating, Add</i>	1,470.83	
40 05 19 00-1013	EA		36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,092.15	1,320.09
			<i>For Class 52 Rating, Deduct</i>	-1,000.12	
			<i>For Class 54 Rating, Add</i>	681.90	
			<i>For Class 55 Rating, Add</i>	1,515.64	
40 05 19 00-1014	EA		36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,364.62	1,322.52
			<i>For Class 52 Rating, Deduct</i>	-1,029.69	
			<i>For Class 54 Rating, Add</i>	702.06	
			<i>For Class 55 Rating, Add</i>	1,560.45	
40 05 19 00-1015	EA		36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,637.08	1,324.94
			<i>For Class 52 Rating, Deduct</i>	-1,059.26	
			<i>For Class 54 Rating, Add</i>	722.22	
			<i>For Class 55 Rating, Add</i>	1,605.25	
40 05 19 00-1016	EA		36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,909.56	1,327.37
			<i>For Class 52 Rating, Deduct</i>	-1,088.82	
			<i>For Class 54 Rating, Add</i>	742.38	
			<i>For Class 55 Rating, Add</i>	1,650.06	
40 05 19 00-1017	EA		36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,182.03	1,329.78
			<i>For Class 52 Rating, Deduct</i>	-1,118.39	
			<i>For Class 54 Rating, Add</i>	762.54	
			<i>For Class 55 Rating, Add</i>	1,694.87	
40 05 19 00-1018	EA		36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,454.50	1,332.21
			<i>For Class 52 Rating, Deduct</i>	-1,147.96	
			<i>For Class 54 Rating, Add</i>	782.70	
			<i>For Class 55 Rating, Add</i>	1,739.68	
40 05 19 00-1019	EA		36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,726.96	1,334.63
			<i>For Class 52 Rating, Deduct</i>	-1,177.53	
			<i>For Class 54 Rating, Add</i>	802.86	
			<i>For Class 55 Rating, Add</i>	1,784.49	
40 05 19 00-1020	EA		36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,999.44	1,337.05
			<i>For Class 52 Rating, Deduct</i>	-1,207.10	
			<i>For Class 54 Rating, Add</i>	823.02	
			<i>For Class 55 Rating, Add</i>	1,829.30	
40 05 19 00-1021	EA		36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,271.91	1,339.48
			<i>For Class 52 Rating, Deduct</i>	-1,236.66	
			<i>For Class 54 Rating, Add</i>	843.18	
			<i>For Class 55 Rating, Add</i>	1,874.11	
40 05 19 00-1022	EA		36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,544.38	1,341.90
			<i>For Class 52 Rating, Deduct</i>	-1,266.23	
			<i>For Class 54 Rating, Add</i>	863.34	
			<i>For Class 55 Rating, Add</i>	1,918.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1023 EA 36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	13,816.85 -1,295.80 883.50 1,963.73	1,344.32
40 05 19 00-1024 EA 36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	14,089.32 -1,325.37 903.66 2,008.53	1,346.74
40 05 19 00-1025 EA 36" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	14,361.79 -1,354.94 923.82 2,053.34	1,349.17
40 05 19 00-1026 EA 36" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	14,634.26 -1,384.50 943.98 2,098.15	1,351.58
40 05 19 00-1027 EA 36" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	14,906.73 -1,414.07 964.14 2,142.96	1,354.01
40 05 19 00-1028 Flanged End x Plain End (FxPE), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0001)</small>		
40 05 19 00-1029 4" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1030 EA 4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	295.48 -12.76 8.70 19.34	118.46
40 05 19 00-1031 EA 4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	319.42 -15.05 10.26 22.80	120.54
40 05 19 00-1032 EA 4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	343.35 -17.34 11.82 26.27	122.60
40 05 19 00-1033 EA 4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	367.30 -19.62 13.38 29.74	124.67
40 05 19 00-1034 EA 4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	391.23 -21.91 14.94 33.21	126.74
40 05 19 00-1035 EA 4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	415.17 -24.20 16.50 36.67	128.82
40 05 19 00-1036 EA 4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	439.11 -26.49 18.06 40.14	130.89
40 05 19 00-1037 EA 4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	463.05 -28.78 19.62 43.61	132.96
40 05 19 00-1038 EA 4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	486.98 -31.06 21.18 47.08	135.03
40 05 19 00-1039 EA 4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	510.92 -33.35 22.74 50.54	137.10

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1040	EA		4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	534.86	139.16
			<i>For Class 52 Rating, Deduct</i>	-35.64	
			<i>For Class 54 Rating, Add</i>	24.30	
			<i>For Class 55 Rating, Add</i>	54.01	
40 05 19 00-1041	EA		4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	558.79	141.24
			<i>For Class 52 Rating, Deduct</i>	-37.93	
			<i>For Class 54 Rating, Add</i>	25.86	
			<i>For Class 55 Rating, Add</i>	57.48	
40 05 19 00-1042	EA		4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	582.74	143.31
			<i>For Class 52 Rating, Deduct</i>	-40.22	
			<i>For Class 54 Rating, Add</i>	27.42	
			<i>For Class 55 Rating, Add</i>	60.95	
40 05 19 00-1043	EA		4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	606.67	145.39
			<i>For Class 52 Rating, Deduct</i>	-42.50	
			<i>For Class 54 Rating, Add</i>	28.98	
			<i>For Class 55 Rating, Add</i>	64.41	
40 05 19 00-1044	EA		4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	630.61	147.45
			<i>For Class 52 Rating, Deduct</i>	-44.79	
			<i>For Class 54 Rating, Add</i>	30.54	
			<i>For Class 55 Rating, Add</i>	67.88	
40 05 19 00-1045	EA		4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	654.55	149.53
			<i>For Class 52 Rating, Deduct</i>	-47.08	
			<i>For Class 54 Rating, Add</i>	32.10	
			<i>For Class 55 Rating, Add</i>	71.35	
40 05 19 00-1046	EA		4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	678.49	151.59
			<i>For Class 52 Rating, Deduct</i>	-49.37	
			<i>For Class 54 Rating, Add</i>	33.66	
			<i>For Class 55 Rating, Add</i>	74.81	
40 05 19 00-1047	EA		4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	702.42	153.66
			<i>For Class 52 Rating, Deduct</i>	-51.66	
			<i>For Class 54 Rating, Add</i>	35.22	
			<i>For Class 55 Rating, Add</i>	78.28	
40 05 19 00-1048	EA		4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	726.36	155.74
			<i>For Class 52 Rating, Deduct</i>	-53.94	
			<i>For Class 54 Rating, Add</i>	36.78	
			<i>For Class 55 Rating, Add</i>	81.75	
40 05 19 00-1049	EA		4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	750.30	157.81
			<i>For Class 52 Rating, Deduct</i>	-56.23	
			<i>For Class 54 Rating, Add</i>	38.34	
			<i>For Class 55 Rating, Add</i>	85.22	
40 05 19 00-1050	EA		4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	774.23	159.89
			<i>For Class 52 Rating, Deduct</i>	-58.52	
			<i>For Class 54 Rating, Add</i>	39.90	
			<i>For Class 55 Rating, Add</i>	88.68	
40 05 19 00-1051	EA		4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	798.18	161.95
			<i>For Class 52 Rating, Deduct</i>	-60.81	
			<i>For Class 54 Rating, Add</i>	41.46	
			<i>For Class 55 Rating, Add</i>	92.15	
40 05 19 00-1052	EA		4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	822.11	164.02
			<i>For Class 52 Rating, Deduct</i>	-63.10	
			<i>For Class 54 Rating, Add</i>	43.02	
			<i>For Class 55 Rating, Add</i>	95.62	
40 05 19 00-1053	EA		4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	846.05	166.09
			<i>For Class 52 Rating, Deduct</i>	-65.38	
			<i>For Class 54 Rating, Add</i>	44.58	
			<i>For Class 55 Rating, Add</i>	99.09	
40 05 19 00-1054	EA		4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	869.99	168.16
			<i>For Class 52 Rating, Deduct</i>	-67.67	
			<i>For Class 54 Rating, Add</i>	46.14	
			<i>For Class 55 Rating, Add</i>	102.55	
40 05 19 00-1055	EA		4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	893.93	170.23
			<i>For Class 52 Rating, Deduct</i>	-69.96	
			<i>For Class 54 Rating, Add</i>	47.70	
			<i>For Class 55 Rating, Add</i>	106.02	
40 05 19 00-1056	EA		4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	917.87	172.31
			<i>For Class 52 Rating, Deduct</i>	-72.25	
			<i>For Class 54 Rating, Add</i>	49.26	
			<i>For Class 55 Rating, Add</i>	109.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1057 EA 4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	941.80	174.38
<i>For Class 52 Rating, Deduct</i>	-74.54	
<i>For Class 54 Rating, Add</i>	50.82	
<i>For Class 55 Rating, Add</i>	112.96	
40 05 19 00-1058 EA 4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	965.74	176.45
<i>For Class 52 Rating, Deduct</i>	-76.82	
<i>For Class 54 Rating, Add</i>	52.38	
<i>For Class 55 Rating, Add</i>	116.42	
40 05 19 00-1059 EA 4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	989.68	178.51
<i>For Class 52 Rating, Deduct</i>	-79.11	
<i>For Class 54 Rating, Add</i>	53.94	
<i>For Class 55 Rating, Add</i>	119.89	
40 05 19 00-1060 EA 4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,013.62	180.59
<i>For Class 52 Rating, Deduct</i>	-81.40	
<i>For Class 54 Rating, Add</i>	55.50	
<i>For Class 55 Rating, Add</i>	123.36	
40 05 19 00-1061 EA 4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,037.55	182.66
<i>For Class 52 Rating, Deduct</i>	-83.69	
<i>For Class 54 Rating, Add</i>	57.06	
<i>For Class 55 Rating, Add</i>	126.83	
40 05 19 00-1062 EA 4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,061.50	184.73
<i>For Class 52 Rating, Deduct</i>	-85.98	
<i>For Class 54 Rating, Add</i>	58.62	
<i>For Class 55 Rating, Add</i>	130.29	
40 05 19 00-1063 EA 4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,085.43	186.80
<i>For Class 52 Rating, Deduct</i>	-88.26	
<i>For Class 54 Rating, Add</i>	60.18	
<i>For Class 55 Rating, Add</i>	133.76	
40 05 19 00-1064 EA 4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,109.37	188.88
<i>For Class 52 Rating, Deduct</i>	-90.55	
<i>For Class 54 Rating, Add</i>	61.74	
<i>For Class 55 Rating, Add</i>	137.23	
40 05 19 00-1065 EA 4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,133.31	190.95
<i>For Class 52 Rating, Deduct</i>	-92.84	
<i>For Class 54 Rating, Add</i>	63.30	
<i>For Class 55 Rating, Add</i>	140.69	
40 05 19 00-1066 EA 4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,157.24	193.01
<i>For Class 52 Rating, Deduct</i>	-95.13	
<i>For Class 54 Rating, Add</i>	64.86	
<i>For Class 55 Rating, Add</i>	144.16	
40 05 19 00-1067 EA 4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,181.18	195.08
<i>For Class 52 Rating, Deduct</i>	-97.42	
<i>For Class 54 Rating, Add</i>	66.42	
<i>For Class 55 Rating, Add</i>	147.63	
40 05 19 00-1068 EA 4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,205.12	197.16
<i>For Class 52 Rating, Deduct</i>	-99.70	
<i>For Class 54 Rating, Add</i>	67.98	
<i>For Class 55 Rating, Add</i>	151.10	
40 05 19 00-1069 6" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1070 EA 6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	370.73	149.11
<i>For Class 52 Rating, Deduct</i>	-15.93	
<i>For Class 54 Rating, Add</i>	10.86	
<i>For Class 55 Rating, Add</i>	24.14	
40 05 19 00-1071 EA 6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	399.46	151.18
<i>For Class 52 Rating, Deduct</i>	-18.74	
<i>For Class 54 Rating, Add</i>	12.78	
<i>For Class 55 Rating, Add</i>	28.41	
40 05 19 00-1072 EA 6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	428.20	153.25
<i>For Class 52 Rating, Deduct</i>	-21.56	
<i>For Class 54 Rating, Add</i>	14.70	
<i>For Class 55 Rating, Add</i>	32.67	
40 05 19 00-1073 EA 6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	456.94	155.32
<i>For Class 52 Rating, Deduct</i>	-24.38	
<i>For Class 54 Rating, Add</i>	16.62	
<i>For Class 55 Rating, Add</i>	36.94	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1074	EA		6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	485.68	157.40
			For Class 52 Rating, Deduct	-27.19	
			For Class 54 Rating, Add	18.54	
			For Class 55 Rating, Add	41.21	
40 05 19 00-1075	EA		6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	514.41	159.47
			For Class 52 Rating, Deduct	-30.01	
			For Class 54 Rating, Add	20.46	
			For Class 55 Rating, Add	45.48	
40 05 19 00-1076	EA		6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	543.16	161.53
			For Class 52 Rating, Deduct	-32.82	
			For Class 54 Rating, Add	22.38	
			For Class 55 Rating, Add	49.74	
40 05 19 00-1077	EA		6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	571.89	163.61
			For Class 52 Rating, Deduct	-35.64	
			For Class 54 Rating, Add	24.30	
			For Class 55 Rating, Add	54.01	
40 05 19 00-1078	EA		6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	600.62	165.68
			For Class 52 Rating, Deduct	-38.46	
			For Class 54 Rating, Add	26.22	
			For Class 55 Rating, Add	58.28	
40 05 19 00-1079	EA		6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	629.37	167.75
			For Class 52 Rating, Deduct	-41.27	
			For Class 54 Rating, Add	28.14	
			For Class 55 Rating, Add	62.55	
40 05 19 00-1080	EA		6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	658.10	169.82
			For Class 52 Rating, Deduct	-44.09	
			For Class 54 Rating, Add	30.06	
			For Class 55 Rating, Add	66.81	
40 05 19 00-1081	EA		6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	686.84	171.90
			For Class 52 Rating, Deduct	-46.90	
			For Class 54 Rating, Add	31.98	
			For Class 55 Rating, Add	71.08	
40 05 19 00-1082	EA		6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	715.58	173.96
			For Class 52 Rating, Deduct	-49.72	
			For Class 54 Rating, Add	33.90	
			For Class 55 Rating, Add	75.35	
40 05 19 00-1083	EA		6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	744.32	176.03
			For Class 52 Rating, Deduct	-52.54	
			For Class 54 Rating, Add	35.82	
			For Class 55 Rating, Add	79.62	
40 05 19 00-1084	EA		6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	773.05	178.10
			For Class 52 Rating, Deduct	-55.35	
			For Class 54 Rating, Add	37.74	
			For Class 55 Rating, Add	83.88	
40 05 19 00-1085	EA		6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	801.80	180.18
			For Class 52 Rating, Deduct	-58.17	
			For Class 54 Rating, Add	39.66	
			For Class 55 Rating, Add	88.15	
40 05 19 00-1086	EA		6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	830.53	182.24
			For Class 52 Rating, Deduct	-60.98	
			For Class 54 Rating, Add	41.58	
			For Class 55 Rating, Add	92.42	
40 05 19 00-1087	EA		6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	859.26	184.32
			For Class 52 Rating, Deduct	-63.80	
			For Class 54 Rating, Add	43.50	
			For Class 55 Rating, Add	96.69	
40 05 19 00-1088	EA		6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	888.01	186.39
			For Class 52 Rating, Deduct	-66.62	
			For Class 54 Rating, Add	45.42	
			For Class 55 Rating, Add	100.95	
40 05 19 00-1089	EA		6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	916.74	188.47
			For Class 52 Rating, Deduct	-69.43	
			For Class 54 Rating, Add	47.34	
			For Class 55 Rating, Add	105.22	
40 05 19 00-1090	EA		6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	945.48	190.52
			For Class 52 Rating, Deduct	-72.25	
			For Class 54 Rating, Add	49.26	
			For Class 55 Rating, Add	109.49	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1091 EA 6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	974.22	192.60
<i>For Class 52 Rating, Deduct</i>	-75.06	
<i>For Class 54 Rating, Add</i>	51.18	
<i>For Class 55 Rating, Add</i>	113.76	
40 05 19 00-1092 EA 6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,002.96	194.67
<i>For Class 52 Rating, Deduct</i>	-77.88	
<i>For Class 54 Rating, Add</i>	53.10	
<i>For Class 55 Rating, Add</i>	118.02	
40 05 19 00-1093 EA 6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,031.70	196.74
<i>For Class 52 Rating, Deduct</i>	-80.70	
<i>For Class 54 Rating, Add</i>	55.02	
<i>For Class 55 Rating, Add</i>	122.29	
40 05 19 00-1094 EA 6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,060.43	198.81
<i>For Class 52 Rating, Deduct</i>	-83.51	
<i>For Class 54 Rating, Add</i>	56.94	
<i>For Class 55 Rating, Add</i>	126.56	
40 05 19 00-1095 EA 6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,089.17	200.89
<i>For Class 52 Rating, Deduct</i>	-86.33	
<i>For Class 54 Rating, Add</i>	58.86	
<i>For Class 55 Rating, Add</i>	130.83	
40 05 19 00-1096 EA 6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,117.91	202.96
<i>For Class 52 Rating, Deduct</i>	-89.14	
<i>For Class 54 Rating, Add</i>	60.78	
<i>For Class 55 Rating, Add</i>	135.09	
40 05 19 00-1097 EA 6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,146.65	205.02
<i>For Class 52 Rating, Deduct</i>	-91.96	
<i>For Class 54 Rating, Add</i>	62.70	
<i>For Class 55 Rating, Add</i>	139.36	
40 05 19 00-1098 EA 6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,175.38	207.10
<i>For Class 52 Rating, Deduct</i>	-94.78	
<i>For Class 54 Rating, Add</i>	64.62	
<i>For Class 55 Rating, Add</i>	143.63	
40 05 19 00-1099 EA 6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,204.13	209.17
<i>For Class 52 Rating, Deduct</i>	-97.59	
<i>For Class 54 Rating, Add</i>	66.54	
<i>For Class 55 Rating, Add</i>	147.90	
40 05 19 00-1100 EA 6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,232.86	211.24
<i>For Class 52 Rating, Deduct</i>	-100.41	
<i>For Class 54 Rating, Add</i>	68.46	
<i>For Class 55 Rating, Add</i>	152.16	
40 05 19 00-1101 EA 6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,261.60	213.31
<i>For Class 52 Rating, Deduct</i>	-103.22	
<i>For Class 54 Rating, Add</i>	70.38	
<i>For Class 55 Rating, Add</i>	156.43	
40 05 19 00-1102 EA 6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,290.34	215.39
<i>For Class 52 Rating, Deduct</i>	-106.04	
<i>For Class 54 Rating, Add</i>	72.30	
<i>For Class 55 Rating, Add</i>	160.70	
40 05 19 00-1103 EA 6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,319.07	217.46
<i>For Class 52 Rating, Deduct</i>	-108.86	
<i>For Class 54 Rating, Add</i>	74.22	
<i>For Class 55 Rating, Add</i>	164.97	
40 05 19 00-1104 EA 6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,347.81	219.52
<i>For Class 52 Rating, Deduct</i>	-111.67	
<i>For Class 54 Rating, Add</i>	76.14	
<i>For Class 55 Rating, Add</i>	169.23	
40 05 19 00-1105 EA 6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,376.55	221.59
<i>For Class 52 Rating, Deduct</i>	-114.49	
<i>For Class 54 Rating, Add</i>	78.06	
<i>For Class 55 Rating, Add</i>	173.50	
40 05 19 00-1106 EA 6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,405.29	223.67
<i>For Class 52 Rating, Deduct</i>	-117.30	
<i>For Class 54 Rating, Add</i>	79.98	
<i>For Class 55 Rating, Add</i>	177.77	
40 05 19 00-1107 EA 6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,434.02	225.73
<i>For Class 52 Rating, Deduct</i>	-120.12	
<i>For Class 54 Rating, Add</i>	81.90	
<i>For Class 55 Rating, Add</i>	182.04	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1108	EA		6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,462.77	227.81
			<i>For Class 52 Rating, Deduct</i>	-122.94	
			<i>For Class 54 Rating, Add</i>	83.82	
			<i>For Class 55 Rating, Add</i>	186.30	
40 05 19 00-1109			8" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1110	EA		8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	499.08	190.52
			<i>For Class 52 Rating, Deduct</i>	-23.14	
			<i>For Class 54 Rating, Add</i>	15.78	
			<i>For Class 55 Rating, Add</i>	35.07	
40 05 19 00-1111	EA		8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	537.42	192.60
			<i>For Class 52 Rating, Deduct</i>	-27.02	
			<i>For Class 54 Rating, Add</i>	18.42	
			<i>For Class 55 Rating, Add</i>	40.94	
40 05 19 00-1112	EA		8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	575.76	194.67
			<i>For Class 52 Rating, Deduct</i>	-30.89	
			<i>For Class 54 Rating, Add</i>	21.06	
			<i>For Class 55 Rating, Add</i>	46.81	
40 05 19 00-1113	EA		8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	614.10	196.74
			<i>For Class 52 Rating, Deduct</i>	-34.76	
			<i>For Class 54 Rating, Add</i>	23.70	
			<i>For Class 55 Rating, Add</i>	52.68	
40 05 19 00-1114	EA		8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	652.43	198.81
			<i>For Class 52 Rating, Deduct</i>	-38.63	
			<i>For Class 54 Rating, Add</i>	26.34	
			<i>For Class 55 Rating, Add</i>	58.55	
40 05 19 00-1115	EA		8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	690.77	200.89
			<i>For Class 52 Rating, Deduct</i>	-42.50	
			<i>For Class 54 Rating, Add</i>	28.98	
			<i>For Class 55 Rating, Add</i>	64.41	
40 05 19 00-1116	EA		8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	729.11	202.96
			<i>For Class 52 Rating, Deduct</i>	-46.38	
			<i>For Class 54 Rating, Add</i>	31.62	
			<i>For Class 55 Rating, Add</i>	70.28	
40 05 19 00-1117	EA		8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	767.45	205.02
			<i>For Class 52 Rating, Deduct</i>	-50.25	
			<i>For Class 54 Rating, Add</i>	34.26	
			<i>For Class 55 Rating, Add</i>	76.15	
40 05 19 00-1118	EA		8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	805.78	207.10
			<i>For Class 52 Rating, Deduct</i>	-54.12	
			<i>For Class 54 Rating, Add</i>	36.90	
			<i>For Class 55 Rating, Add</i>	82.02	
40 05 19 00-1119	EA		8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	844.13	209.17
			<i>For Class 52 Rating, Deduct</i>	-57.99	
			<i>For Class 54 Rating, Add</i>	39.54	
			<i>For Class 55 Rating, Add</i>	87.88	
40 05 19 00-1120	EA		8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	882.46	211.24
			<i>For Class 52 Rating, Deduct</i>	-61.86	
			<i>For Class 54 Rating, Add</i>	42.18	
			<i>For Class 55 Rating, Add</i>	93.75	
40 05 19 00-1121	EA		8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	920.80	213.31
			<i>For Class 52 Rating, Deduct</i>	-65.74	
			<i>For Class 54 Rating, Add</i>	44.82	
			<i>For Class 55 Rating, Add</i>	99.62	
40 05 19 00-1122	EA		8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	959.14	215.39
			<i>For Class 52 Rating, Deduct</i>	-69.61	
			<i>For Class 54 Rating, Add</i>	47.46	
			<i>For Class 55 Rating, Add</i>	105.49	
40 05 19 00-1123	EA		8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	997.47	217.46
			<i>For Class 52 Rating, Deduct</i>	-73.48	
			<i>For Class 54 Rating, Add</i>	50.10	
			<i>For Class 55 Rating, Add</i>	111.36	
40 05 19 00-1124	EA		8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,035.81	219.52
			<i>For Class 52 Rating, Deduct</i>	-77.35	
			<i>For Class 54 Rating, Add</i>	52.74	
			<i>For Class 55 Rating, Add</i>	117.22	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1125 EA 8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,074.15	221.59
<i>For Class 52 Rating, Deduct</i>	-81.22	
<i>For Class 54 Rating, Add</i>	55.38	
<i>For Class 55 Rating, Add</i>	123.09	
40 05 19 00-1126 EA 8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,112.49	223.67
<i>For Class 52 Rating, Deduct</i>	-85.10	
<i>For Class 54 Rating, Add</i>	58.02	
<i>For Class 55 Rating, Add</i>	128.96	
40 05 19 00-1127 EA 8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,150.82	225.73
<i>For Class 52 Rating, Deduct</i>	-88.97	
<i>For Class 54 Rating, Add</i>	60.66	
<i>For Class 55 Rating, Add</i>	134.83	
40 05 19 00-1128 EA 8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,189.17	227.81
<i>For Class 52 Rating, Deduct</i>	-92.84	
<i>For Class 54 Rating, Add</i>	63.30	
<i>For Class 55 Rating, Add</i>	140.69	
40 05 19 00-1129 EA 8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,227.50	229.88
<i>For Class 52 Rating, Deduct</i>	-96.71	
<i>For Class 54 Rating, Add</i>	65.94	
<i>For Class 55 Rating, Add</i>	146.56	
40 05 19 00-1130 EA 8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,265.84	231.95
<i>For Class 52 Rating, Deduct</i>	-100.58	
<i>For Class 54 Rating, Add</i>	68.58	
<i>For Class 55 Rating, Add</i>	152.43	
40 05 19 00-1131 EA 8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,304.18	234.01
<i>For Class 52 Rating, Deduct</i>	-104.46	
<i>For Class 54 Rating, Add</i>	71.22	
<i>For Class 55 Rating, Add</i>	158.30	
40 05 19 00-1132 EA 8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,342.51	236.09
<i>For Class 52 Rating, Deduct</i>	-108.33	
<i>For Class 54 Rating, Add</i>	73.86	
<i>For Class 55 Rating, Add</i>	164.17	
40 05 19 00-1133 EA 8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,380.85	238.16
<i>For Class 52 Rating, Deduct</i>	-112.20	
<i>For Class 54 Rating, Add</i>	76.50	
<i>For Class 55 Rating, Add</i>	170.03	
40 05 19 00-1134 EA 8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,419.19	240.24
<i>For Class 52 Rating, Deduct</i>	-116.07	
<i>For Class 54 Rating, Add</i>	79.14	
<i>For Class 55 Rating, Add</i>	175.90	
40 05 19 00-1135 EA 8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,457.53	242.31
<i>For Class 52 Rating, Deduct</i>	-119.94	
<i>For Class 54 Rating, Add</i>	81.78	
<i>For Class 55 Rating, Add</i>	181.77	
40 05 19 00-1136 EA 8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,495.86	244.38
<i>For Class 52 Rating, Deduct</i>	-123.82	
<i>For Class 54 Rating, Add</i>	84.42	
<i>For Class 55 Rating, Add</i>	187.64	
40 05 19 00-1137 EA 8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,534.21	246.45
<i>For Class 52 Rating, Deduct</i>	-127.69	
<i>For Class 54 Rating, Add</i>	87.06	
<i>For Class 55 Rating, Add</i>	193.51	
40 05 19 00-1138 EA 8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,572.54	248.51
<i>For Class 52 Rating, Deduct</i>	-131.56	
<i>For Class 54 Rating, Add</i>	89.70	
<i>For Class 55 Rating, Add</i>	199.37	
40 05 19 00-1139 EA 8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,610.88	250.59
<i>For Class 52 Rating, Deduct</i>	-135.43	
<i>For Class 54 Rating, Add</i>	92.34	
<i>For Class 55 Rating, Add</i>	205.24	
40 05 19 00-1140 EA 8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,649.22	252.66
<i>For Class 52 Rating, Deduct</i>	-139.30	
<i>For Class 54 Rating, Add</i>	94.98	
<i>For Class 55 Rating, Add</i>	211.11	
40 05 19 00-1141 EA 8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,687.55	254.74
<i>For Class 52 Rating, Deduct</i>	-143.18	
<i>For Class 54 Rating, Add</i>	97.62	
<i>For Class 55 Rating, Add</i>	216.98	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1142	EA		8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,725.89	256.80
			<i>For Class 52 Rating, Deduct</i>	-147.05	
			<i>For Class 54 Rating, Add</i>	100.26	
			<i>For Class 55 Rating, Add</i>	222.84	
40 05 19 00-1143	EA		8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,764.23	258.88
			<i>For Class 52 Rating, Deduct</i>	-150.92	
			<i>For Class 54 Rating, Add</i>	102.90	
			<i>For Class 55 Rating, Add</i>	228.71	
40 05 19 00-1144	EA		8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,802.57	260.94
			<i>For Class 52 Rating, Deduct</i>	-154.79	
			<i>For Class 54 Rating, Add</i>	105.54	
			<i>For Class 55 Rating, Add</i>	234.58	
40 05 19 00-1145	EA		8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,840.90	263.01
			<i>For Class 52 Rating, Deduct</i>	-158.66	
			<i>For Class 54 Rating, Add</i>	108.18	
			<i>For Class 55 Rating, Add</i>	240.45	
40 05 19 00-1146	EA		8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,879.25	265.08
			<i>For Class 52 Rating, Deduct</i>	-162.54	
			<i>For Class 54 Rating, Add</i>	110.82	
			<i>For Class 55 Rating, Add</i>	246.32	
40 05 19 00-1147	EA		8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,917.58	267.16
			<i>For Class 52 Rating, Deduct</i>	-166.41	
			<i>For Class 54 Rating, Add</i>	113.46	
			<i>For Class 55 Rating, Add</i>	252.18	
40 05 19 00-1148	EA		8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,955.92	269.23
			<i>For Class 52 Rating, Deduct</i>	-170.28	
			<i>For Class 54 Rating, Add</i>	116.10	
			<i>For Class 55 Rating, Add</i>	258.05	
40 05 19 00-1149			10" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1150	EA		10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	622.64	231.95
			<i>For Class 52 Rating, Deduct</i>	-29.83	
			<i>For Class 54 Rating, Add</i>	20.34	
			<i>For Class 55 Rating, Add</i>	45.21	
40 05 19 00-1151	EA		10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	672.18	234.01
			<i>For Class 52 Rating, Deduct</i>	-34.94	
			<i>For Class 54 Rating, Add</i>	23.82	
			<i>For Class 55 Rating, Add</i>	52.94	
40 05 19 00-1152	EA		10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	721.71	236.09
			<i>For Class 52 Rating, Deduct</i>	-40.04	
			<i>For Class 54 Rating, Add</i>	27.30	
			<i>For Class 55 Rating, Add</i>	60.68	
40 05 19 00-1153	EA		10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	771.25	238.16
			<i>For Class 52 Rating, Deduct</i>	-45.14	
			<i>For Class 54 Rating, Add</i>	30.78	
			<i>For Class 55 Rating, Add</i>	68.41	
40 05 19 00-1154	EA		10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	820.79	240.24
			<i>For Class 52 Rating, Deduct</i>	-50.25	
			<i>For Class 54 Rating, Add</i>	34.26	
			<i>For Class 55 Rating, Add</i>	76.15	
40 05 19 00-1155	EA		10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	870.33	242.31
			<i>For Class 52 Rating, Deduct</i>	-55.35	
			<i>For Class 54 Rating, Add</i>	37.74	
			<i>For Class 55 Rating, Add</i>	83.88	
40 05 19 00-1156	EA		10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	919.86	244.38
			<i>For Class 52 Rating, Deduct</i>	-60.46	
			<i>For Class 54 Rating, Add</i>	41.22	
			<i>For Class 55 Rating, Add</i>	91.62	
40 05 19 00-1157	EA		10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	969.41	246.45
			<i>For Class 52 Rating, Deduct</i>	-65.56	
			<i>For Class 54 Rating, Add</i>	44.70	
			<i>For Class 55 Rating, Add</i>	99.35	
40 05 19 00-1158	EA		10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,018.94	248.51
			<i>For Class 52 Rating, Deduct</i>	-70.66	
			<i>For Class 54 Rating, Add</i>	48.18	
			<i>For Class 55 Rating, Add</i>	107.09	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1159 EA 10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,068.48	250.59
<i>For Class 52 Rating, Deduct</i>	-75.77	
<i>For Class 54 Rating, Add</i>	51.66	
<i>For Class 55 Rating, Add</i>	114.82	
40 05 19 00-1160 EA 10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,118.02	252.66
<i>For Class 52 Rating, Deduct</i>	-80.87	
<i>For Class 54 Rating, Add</i>	55.14	
<i>For Class 55 Rating, Add</i>	122.56	
40 05 19 00-1161 EA 10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,167.55	254.74
<i>For Class 52 Rating, Deduct</i>	-85.98	
<i>For Class 54 Rating, Add</i>	58.62	
<i>For Class 55 Rating, Add</i>	130.29	
40 05 19 00-1162 EA 10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,217.09	256.80
<i>For Class 52 Rating, Deduct</i>	-91.08	
<i>For Class 54 Rating, Add</i>	62.10	
<i>For Class 55 Rating, Add</i>	138.03	
40 05 19 00-1163 EA 10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,266.63	258.88
<i>For Class 52 Rating, Deduct</i>	-96.18	
<i>For Class 54 Rating, Add</i>	65.58	
<i>For Class 55 Rating, Add</i>	145.76	
40 05 19 00-1164 EA 10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,316.17	260.94
<i>For Class 52 Rating, Deduct</i>	-101.29	
<i>For Class 54 Rating, Add</i>	69.06	
<i>For Class 55 Rating, Add</i>	153.50	
40 05 19 00-1165 EA 10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,365.70	263.01
<i>For Class 52 Rating, Deduct</i>	-106.39	
<i>For Class 54 Rating, Add</i>	72.54	
<i>For Class 55 Rating, Add</i>	161.23	
40 05 19 00-1166 EA 10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,415.25	265.08
<i>For Class 52 Rating, Deduct</i>	-111.50	
<i>For Class 54 Rating, Add</i>	76.02	
<i>For Class 55 Rating, Add</i>	168.97	
40 05 19 00-1167 EA 10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,464.78	267.16
<i>For Class 52 Rating, Deduct</i>	-116.60	
<i>For Class 54 Rating, Add</i>	79.50	
<i>For Class 55 Rating, Add</i>	176.70	
40 05 19 00-1168 EA 10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,514.32	269.23
<i>For Class 52 Rating, Deduct</i>	-121.70	
<i>For Class 54 Rating, Add</i>	82.98	
<i>For Class 55 Rating, Add</i>	184.44	
40 05 19 00-1169 EA 10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,563.86	271.30
<i>For Class 52 Rating, Deduct</i>	-126.81	
<i>For Class 54 Rating, Add</i>	86.46	
<i>For Class 55 Rating, Add</i>	192.17	
40 05 19 00-1170 EA 10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,613.39	273.36
<i>For Class 52 Rating, Deduct</i>	-131.91	
<i>For Class 54 Rating, Add</i>	89.94	
<i>For Class 55 Rating, Add</i>	199.91	
40 05 19 00-1171 EA 10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,662.93	275.44
<i>For Class 52 Rating, Deduct</i>	-137.02	
<i>For Class 54 Rating, Add</i>	93.42	
<i>For Class 55 Rating, Add</i>	207.64	
40 05 19 00-1172 EA 10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,712.47	277.51
<i>For Class 52 Rating, Deduct</i>	-142.12	
<i>For Class 54 Rating, Add</i>	96.90	
<i>For Class 55 Rating, Add</i>	215.38	
40 05 19 00-1173 EA 10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,762.01	279.58
<i>For Class 52 Rating, Deduct</i>	-147.22	
<i>For Class 54 Rating, Add</i>	100.38	
<i>For Class 55 Rating, Add</i>	223.11	
40 05 19 00-1174 EA 10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,811.55	281.65
<i>For Class 52 Rating, Deduct</i>	-152.33	
<i>For Class 54 Rating, Add</i>	103.86	
<i>For Class 55 Rating, Add</i>	230.85	
40 05 19 00-1175 EA 10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,861.09	283.73
<i>For Class 52 Rating, Deduct</i>	-157.43	
<i>For Class 54 Rating, Add</i>	107.34	
<i>For Class 55 Rating, Add</i>	238.58	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1176	EA		10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,910.62	285.80
			<i>For Class 52 Rating, Deduct</i>	-162.54	
			<i>For Class 54 Rating, Add</i>	110.82	
			<i>For Class 55 Rating, Add</i>	246.32	
40 05 19 00-1177	EA		10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,960.17	287.86
			<i>For Class 52 Rating, Deduct</i>	-167.64	
			<i>For Class 54 Rating, Add</i>	114.30	
			<i>For Class 55 Rating, Add</i>	254.05	
40 05 19 00-1178	EA		10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,009.70	289.94
			<i>For Class 52 Rating, Deduct</i>	-172.74	
			<i>For Class 54 Rating, Add</i>	117.78	
			<i>For Class 55 Rating, Add</i>	261.79	
40 05 19 00-1179	EA		10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,059.23	292.01
			<i>For Class 52 Rating, Deduct</i>	-177.85	
			<i>For Class 54 Rating, Add</i>	121.26	
			<i>For Class 55 Rating, Add</i>	269.52	
40 05 19 00-1180	EA		10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,108.78	294.08
			<i>For Class 52 Rating, Deduct</i>	-182.95	
			<i>For Class 54 Rating, Add</i>	124.74	
			<i>For Class 55 Rating, Add</i>	277.26	
40 05 19 00-1181	EA		10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,158.31	296.15
			<i>For Class 52 Rating, Deduct</i>	-188.06	
			<i>For Class 54 Rating, Add</i>	128.22	
			<i>For Class 55 Rating, Add</i>	284.99	
40 05 19 00-1182	EA		10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,207.85	298.23
			<i>For Class 52 Rating, Deduct</i>	-193.16	
			<i>For Class 54 Rating, Add</i>	131.70	
			<i>For Class 55 Rating, Add</i>	292.73	
40 05 19 00-1183	EA		10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,257.39	300.29
			<i>For Class 52 Rating, Deduct</i>	-198.26	
			<i>For Class 54 Rating, Add</i>	135.18	
			<i>For Class 55 Rating, Add</i>	300.46	
40 05 19 00-1184	EA		10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,306.93	302.36
			<i>For Class 52 Rating, Deduct</i>	-203.37	
			<i>For Class 54 Rating, Add</i>	138.66	
			<i>For Class 55 Rating, Add</i>	308.19	
40 05 19 00-1185	EA		10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,356.46	304.43
			<i>For Class 52 Rating, Deduct</i>	-208.47	
			<i>For Class 54 Rating, Add</i>	142.14	
			<i>For Class 55 Rating, Add</i>	315.93	
40 05 19 00-1186	EA		10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,406.01	306.51
			<i>For Class 52 Rating, Deduct</i>	-213.58	
			<i>For Class 54 Rating, Add</i>	145.62	
			<i>For Class 55 Rating, Add</i>	323.66	
40 05 19 00-1187	EA		10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,455.54	308.57
			<i>For Class 52 Rating, Deduct</i>	-218.68	
			<i>For Class 54 Rating, Add</i>	149.10	
			<i>For Class 55 Rating, Add</i>	331.40	
40 05 19 00-1188	EA		10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,505.07	310.65
			<i>For Class 52 Rating, Deduct</i>	-223.78	
			<i>For Class 54 Rating, Add</i>	152.58	
			<i>For Class 55 Rating, Add</i>	339.13	
40 05 19 00-1189			12" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1190	EA		12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	800.90	289.94
			<i>For Class 52 Rating, Deduct</i>	-39.78	
			<i>For Class 54 Rating, Add</i>	27.12	
			<i>For Class 55 Rating, Add</i>	60.28	
40 05 19 00-1191	EA		12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	862.43	292.01
			<i>For Class 52 Rating, Deduct</i>	-46.20	
			<i>For Class 54 Rating, Add</i>	31.50	
			<i>For Class 55 Rating, Add</i>	70.01	
40 05 19 00-1192	EA		12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	923.98	294.08
			<i>For Class 52 Rating, Deduct</i>	-52.62	
			<i>For Class 54 Rating, Add</i>	35.88	
			<i>For Class 55 Rating, Add</i>	79.75	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1193 EA 12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	985.51	296.15
<i>For Class 52 Rating, Deduct</i>	-59.05	
<i>For Class 54 Rating, Add</i>	40.26	
<i>For Class 55 Rating, Add</i>	89.48	
40 05 19 00-1194 EA 12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,047.05	298.23
<i>For Class 52 Rating, Deduct</i>	-65.47	
<i>For Class 54 Rating, Add</i>	44.64	
<i>For Class 55 Rating, Add</i>	99.22	
40 05 19 00-1195 EA 12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,108.59	300.29
<i>For Class 52 Rating, Deduct</i>	-71.90	
<i>For Class 54 Rating, Add</i>	49.02	
<i>For Class 55 Rating, Add</i>	108.96	
40 05 19 00-1196 EA 12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,170.13	302.36
<i>For Class 52 Rating, Deduct</i>	-78.32	
<i>For Class 54 Rating, Add</i>	53.40	
<i>For Class 55 Rating, Add</i>	118.69	
40 05 19 00-1197 EA 12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,231.66	304.43
<i>For Class 52 Rating, Deduct</i>	-84.74	
<i>For Class 54 Rating, Add</i>	57.78	
<i>For Class 55 Rating, Add</i>	128.43	
40 05 19 00-1198 EA 12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,293.21	306.51
<i>For Class 52 Rating, Deduct</i>	-91.17	
<i>For Class 54 Rating, Add</i>	62.16	
<i>For Class 55 Rating, Add</i>	138.16	
40 05 19 00-1199 EA 12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,354.74	308.57
<i>For Class 52 Rating, Deduct</i>	-97.59	
<i>For Class 54 Rating, Add</i>	66.54	
<i>For Class 55 Rating, Add</i>	147.90	
40 05 19 00-1200 EA 12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,416.27	310.65
<i>For Class 52 Rating, Deduct</i>	-104.02	
<i>For Class 54 Rating, Add</i>	70.92	
<i>For Class 55 Rating, Add</i>	157.63	
40 05 19 00-1201 EA 12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,477.82	312.72
<i>For Class 52 Rating, Deduct</i>	-110.44	
<i>For Class 54 Rating, Add</i>	75.30	
<i>For Class 55 Rating, Add</i>	167.37	
40 05 19 00-1202 EA 12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,539.35	314.79
<i>For Class 52 Rating, Deduct</i>	-116.86	
<i>For Class 54 Rating, Add</i>	79.68	
<i>For Class 55 Rating, Add</i>	177.10	
40 05 19 00-1203 EA 12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,600.89	316.85
<i>For Class 52 Rating, Deduct</i>	-123.29	
<i>For Class 54 Rating, Add</i>	84.06	
<i>For Class 55 Rating, Add</i>	186.84	
40 05 19 00-1204 EA 12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,662.43	318.93
<i>For Class 52 Rating, Deduct</i>	-129.71	
<i>For Class 54 Rating, Add</i>	88.44	
<i>For Class 55 Rating, Add</i>	196.57	
40 05 19 00-1205 EA 12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,723.97	321.00
<i>For Class 52 Rating, Deduct</i>	-136.14	
<i>For Class 54 Rating, Add</i>	92.82	
<i>For Class 55 Rating, Add</i>	206.31	
40 05 19 00-1206 EA 12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,785.50	323.07
<i>For Class 52 Rating, Deduct</i>	-142.56	
<i>For Class 54 Rating, Add</i>	97.20	
<i>For Class 55 Rating, Add</i>	216.04	
40 05 19 00-1207 EA 12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,847.05	325.15
<i>For Class 52 Rating, Deduct</i>	-148.98	
<i>For Class 54 Rating, Add</i>	101.58	
<i>For Class 55 Rating, Add</i>	225.78	
40 05 19 00-1208 EA 12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,908.58	327.22
<i>For Class 52 Rating, Deduct</i>	-155.41	
<i>For Class 54 Rating, Add</i>	105.96	
<i>For Class 55 Rating, Add</i>	235.51	
40 05 19 00-1209 EA 12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,970.11	329.28
<i>For Class 52 Rating, Deduct</i>	-161.83	
<i>For Class 54 Rating, Add</i>	110.34	
<i>For Class 55 Rating, Add</i>	245.25	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1210	EA		12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,031.66	331.35
			<i>For Class 52 Rating, Deduct</i>	-168.26	
			<i>For Class 54 Rating, Add</i>	114.72	
			<i>For Class 55 Rating, Add</i>	254.98	
40 05 19 00-1211	EA		12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,093.19	333.43
			<i>For Class 52 Rating, Deduct</i>	-174.68	
			<i>For Class 54 Rating, Add</i>	119.10	
			<i>For Class 55 Rating, Add</i>	264.72	
40 05 19 00-1212	EA		12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,154.73	335.50
			<i>For Class 52 Rating, Deduct</i>	-181.10	
			<i>For Class 54 Rating, Add</i>	123.48	
			<i>For Class 55 Rating, Add</i>	274.45	
40 05 19 00-1213	EA		12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,216.27	337.57
			<i>For Class 52 Rating, Deduct</i>	-187.53	
			<i>For Class 54 Rating, Add</i>	127.86	
			<i>For Class 55 Rating, Add</i>	284.19	
40 05 19 00-1214	EA		12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,277.81	339.64
			<i>For Class 52 Rating, Deduct</i>	-193.95	
			<i>For Class 54 Rating, Add</i>	132.24	
			<i>For Class 55 Rating, Add</i>	293.93	
40 05 19 00-1215	EA		12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,339.34	341.72
			<i>For Class 52 Rating, Deduct</i>	-200.38	
			<i>For Class 54 Rating, Add</i>	136.62	
			<i>For Class 55 Rating, Add</i>	303.66	
40 05 19 00-1216	EA		12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,400.88	343.78
			<i>For Class 52 Rating, Deduct</i>	-206.80	
			<i>For Class 54 Rating, Add</i>	141.00	
			<i>For Class 55 Rating, Add</i>	313.40	
40 05 19 00-1217	EA		12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,462.42	345.85
			<i>For Class 52 Rating, Deduct</i>	-213.22	
			<i>For Class 54 Rating, Add</i>	145.38	
			<i>For Class 55 Rating, Add</i>	323.13	
40 05 19 00-1218	EA		12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,523.95	347.92
			<i>For Class 52 Rating, Deduct</i>	-219.65	
			<i>For Class 54 Rating, Add</i>	149.76	
			<i>For Class 55 Rating, Add</i>	332.87	
40 05 19 00-1219	EA		12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,585.50	350.00
			<i>For Class 52 Rating, Deduct</i>	-226.07	
			<i>For Class 54 Rating, Add</i>	154.14	
			<i>For Class 55 Rating, Add</i>	342.60	
40 05 19 00-1220	EA		12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,647.03	352.06
			<i>For Class 52 Rating, Deduct</i>	-232.50	
			<i>For Class 54 Rating, Add</i>	158.52	
			<i>For Class 55 Rating, Add</i>	352.34	
40 05 19 00-1221	EA		12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,708.57	354.14
			<i>For Class 52 Rating, Deduct</i>	-238.92	
			<i>For Class 54 Rating, Add</i>	162.90	
			<i>For Class 55 Rating, Add</i>	362.07	
40 05 19 00-1222	EA		12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,770.11	356.21
			<i>For Class 52 Rating, Deduct</i>	-245.34	
			<i>For Class 54 Rating, Add</i>	167.28	
			<i>For Class 55 Rating, Add</i>	371.81	
40 05 19 00-1223	EA		12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,831.65	358.28
			<i>For Class 52 Rating, Deduct</i>	-251.77	
			<i>For Class 54 Rating, Add</i>	171.66	
			<i>For Class 55 Rating, Add</i>	381.54	
40 05 19 00-1224	EA		12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,893.19	360.35
			<i>For Class 52 Rating, Deduct</i>	-258.19	
			<i>For Class 54 Rating, Add</i>	176.04	
			<i>For Class 55 Rating, Add</i>	391.28	
40 05 19 00-1225	EA		12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,954.72	362.42
			<i>For Class 52 Rating, Deduct</i>	-264.62	
			<i>For Class 54 Rating, Add</i>	180.42	
			<i>For Class 55 Rating, Add</i>	401.01	
40 05 19 00-1226	EA		12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,016.26	364.50
			<i>For Class 52 Rating, Deduct</i>	-271.04	
			<i>For Class 54 Rating, Add</i>	184.80	
			<i>For Class 55 Rating, Add</i>	410.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1227 EA 12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,077.80	366.56
<i>For Class 52 Rating, Deduct</i>	-277.46	
<i>For Class 54 Rating, Add</i>	189.18	
<i>For Class 55 Rating, Add</i>	420.48	
40 05 19 00-1228 EA 12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,139.34	368.64
<i>For Class 52 Rating, Deduct</i>	-283.89	
<i>For Class 54 Rating, Add</i>	193.56	
<i>For Class 55 Rating, Add</i>	430.22	
40 05 19 00-1229 14" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
(40 05 19 00-1028)		
40 05 19 00-1230 EA 14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,043.15	347.92
<i>For Class 52 Rating, Deduct</i>	-56.76	
<i>For Class 54 Rating, Add</i>	38.70	
<i>For Class 55 Rating, Add</i>	86.02	
40 05 19 00-1231 EA 14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,117.50	350.00
<i>For Class 52 Rating, Deduct</i>	-64.59	
<i>For Class 54 Rating, Add</i>	44.04	
<i>For Class 55 Rating, Add</i>	97.89	
40 05 19 00-1232 EA 14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,191.83	352.06
<i>For Class 52 Rating, Deduct</i>	-72.42	
<i>For Class 54 Rating, Add</i>	49.38	
<i>For Class 55 Rating, Add</i>	109.76	
40 05 19 00-1233 EA 14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,266.17	354.14
<i>For Class 52 Rating, Deduct</i>	-80.26	
<i>For Class 54 Rating, Add</i>	54.72	
<i>For Class 55 Rating, Add</i>	121.62	
40 05 19 00-1234 EA 14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,340.51	356.21
<i>For Class 52 Rating, Deduct</i>	-88.09	
<i>For Class 54 Rating, Add</i>	60.06	
<i>For Class 55 Rating, Add</i>	133.49	
40 05 19 00-1235 EA 14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,414.85	358.28
<i>For Class 52 Rating, Deduct</i>	-95.92	
<i>For Class 54 Rating, Add</i>	65.40	
<i>For Class 55 Rating, Add</i>	145.36	
40 05 19 00-1236 EA 14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,489.19	360.35
<i>For Class 52 Rating, Deduct</i>	-103.75	
<i>For Class 54 Rating, Add</i>	70.74	
<i>For Class 55 Rating, Add</i>	157.23	
40 05 19 00-1237 EA 14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,563.52	362.42
<i>For Class 52 Rating, Deduct</i>	-111.58	
<i>For Class 54 Rating, Add</i>	76.08	
<i>For Class 55 Rating, Add</i>	169.10	
40 05 19 00-1238 EA 14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,637.86	364.50
<i>For Class 52 Rating, Deduct</i>	-119.42	
<i>For Class 54 Rating, Add</i>	81.42	
<i>For Class 55 Rating, Add</i>	180.97	
40 05 19 00-1239 EA 14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,712.20	366.56
<i>For Class 52 Rating, Deduct</i>	-127.25	
<i>For Class 54 Rating, Add</i>	86.76	
<i>For Class 55 Rating, Add</i>	192.84	
40 05 19 00-1240 EA 14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,786.54	368.64
<i>For Class 52 Rating, Deduct</i>	-135.08	
<i>For Class 54 Rating, Add</i>	92.10	
<i>For Class 55 Rating, Add</i>	204.71	
40 05 19 00-1241 EA 14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,860.87	370.71
<i>For Class 52 Rating, Deduct</i>	-142.91	
<i>For Class 54 Rating, Add</i>	97.44	
<i>For Class 55 Rating, Add</i>	216.58	
40 05 19 00-1242 EA 14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,935.22	372.78
<i>For Class 52 Rating, Deduct</i>	-150.74	
<i>For Class 54 Rating, Add</i>	102.78	
<i>For Class 55 Rating, Add</i>	228.45	
40 05 19 00-1243 EA 14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,009.55	374.84
<i>For Class 52 Rating, Deduct</i>	-158.58	
<i>For Class 54 Rating, Add</i>	108.12	
<i>For Class 55 Rating, Add</i>	240.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1244	EA		14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,083.89	376.92
			<i>For Class 52 Rating, Deduct</i>	-166.41	
			<i>For Class 54 Rating, Add</i>	113.46	
			<i>For Class 55 Rating, Add</i>	252.18	
40 05 19 00-1245	EA		14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,158.23	378.99
			<i>For Class 52 Rating, Deduct</i>	-174.24	
			<i>For Class 54 Rating, Add</i>	118.80	
			<i>For Class 55 Rating, Add</i>	264.05	
40 05 19 00-1246	EA		14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,232.56	381.06
			<i>For Class 52 Rating, Deduct</i>	-182.07	
			<i>For Class 54 Rating, Add</i>	124.14	
			<i>For Class 55 Rating, Add</i>	275.92	
40 05 19 00-1247	EA		14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,306.90	383.13
			<i>For Class 52 Rating, Deduct</i>	-189.90	
			<i>For Class 54 Rating, Add</i>	129.48	
			<i>For Class 55 Rating, Add</i>	287.79	
40 05 19 00-1248	EA		14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,381.24	385.21
			<i>For Class 52 Rating, Deduct</i>	-197.74	
			<i>For Class 54 Rating, Add</i>	134.82	
			<i>For Class 55 Rating, Add</i>	299.66	
40 05 19 00-1249	EA		14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,455.58	387.27
			<i>For Class 52 Rating, Deduct</i>	-205.57	
			<i>For Class 54 Rating, Add</i>	140.16	
			<i>For Class 55 Rating, Add</i>	311.53	
40 05 19 00-1250	EA		14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,529.91	389.34
			<i>For Class 52 Rating, Deduct</i>	-213.40	
			<i>For Class 54 Rating, Add</i>	145.50	
			<i>For Class 55 Rating, Add</i>	323.40	
40 05 19 00-1251	EA		14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,604.26	391.41
			<i>For Class 52 Rating, Deduct</i>	-221.23	
			<i>For Class 54 Rating, Add</i>	150.84	
			<i>For Class 55 Rating, Add</i>	335.27	
40 05 19 00-1252	EA		14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,678.59	393.49
			<i>For Class 52 Rating, Deduct</i>	-229.06	
			<i>For Class 54 Rating, Add</i>	156.18	
			<i>For Class 55 Rating, Add</i>	347.14	
40 05 19 00-1253	EA		14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,752.93	395.56
			<i>For Class 52 Rating, Deduct</i>	-236.90	
			<i>For Class 54 Rating, Add</i>	161.52	
			<i>For Class 55 Rating, Add</i>	359.01	
40 05 19 00-1254	EA		14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,827.27	397.63
			<i>For Class 52 Rating, Deduct</i>	-244.73	
			<i>For Class 54 Rating, Add</i>	166.86	
			<i>For Class 55 Rating, Add</i>	370.87	
40 05 19 00-1255	EA		14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,901.60	399.69
			<i>For Class 52 Rating, Deduct</i>	-252.56	
			<i>For Class 54 Rating, Add</i>	172.20	
			<i>For Class 55 Rating, Add</i>	382.74	
40 05 19 00-1256	EA		14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,975.94	401.77
			<i>For Class 52 Rating, Deduct</i>	-260.39	
			<i>For Class 54 Rating, Add</i>	177.54	
			<i>For Class 55 Rating, Add</i>	394.61	
40 05 19 00-1257	EA		14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,050.28	403.84
			<i>For Class 52 Rating, Deduct</i>	-268.22	
			<i>For Class 54 Rating, Add</i>	182.88	
			<i>For Class 55 Rating, Add</i>	406.48	
40 05 19 00-1258	EA		14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,124.62	405.91
			<i>For Class 52 Rating, Deduct</i>	-276.06	
			<i>For Class 54 Rating, Add</i>	188.22	
			<i>For Class 55 Rating, Add</i>	418.35	
40 05 19 00-1259	EA		14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,198.95	407.99
			<i>For Class 52 Rating, Deduct</i>	-283.89	
			<i>For Class 54 Rating, Add</i>	193.56	
			<i>For Class 55 Rating, Add</i>	430.22	
40 05 19 00-1260	EA		14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,273.30	410.06
			<i>For Class 52 Rating, Deduct</i>	-291.72	
			<i>For Class 54 Rating, Add</i>	198.90	
			<i>For Class 55 Rating, Add</i>	442.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1261 EA 14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,347.63	412.13
For Class 52 Rating, Deduct	-299.55	
For Class 54 Rating, Add	204.24	
For Class 55 Rating, Add	453.96	
40 05 19 00-1262 EA 14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,421.97	414.19
For Class 52 Rating, Deduct	-307.38	
For Class 54 Rating, Add	209.58	
For Class 55 Rating, Add	465.83	
40 05 19 00-1263 EA 14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,496.31	416.27
For Class 52 Rating, Deduct	-315.22	
For Class 54 Rating, Add	214.92	
For Class 55 Rating, Add	477.70	
40 05 19 00-1264 EA 14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,570.64	418.33
For Class 52 Rating, Deduct	-323.05	
For Class 54 Rating, Add	220.26	
For Class 55 Rating, Add	489.56	
40 05 19 00-1265 EA 14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,644.98	420.41
For Class 52 Rating, Deduct	-330.88	
For Class 54 Rating, Add	225.60	
For Class 55 Rating, Add	501.43	
40 05 19 00-1266 EA 14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,719.32	422.48
For Class 52 Rating, Deduct	-338.71	
For Class 54 Rating, Add	230.94	
For Class 55 Rating, Add	513.30	
40 05 19 00-1267 EA 14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,793.66	424.56
For Class 52 Rating, Deduct	-346.54	
For Class 54 Rating, Add	236.28	
For Class 55 Rating, Add	525.17	
40 05 19 00-1268 16" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1269 EA 16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,212.87	397.63
For Class 52 Rating, Deduct	-67.14	
For Class 54 Rating, Add	45.78	
For Class 55 Rating, Add	101.75	
40 05 19 00-1270 EA 16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,299.20	399.69
For Class 52 Rating, Deduct	-76.30	
For Class 54 Rating, Add	52.02	
For Class 55 Rating, Add	115.62	
40 05 19 00-1271 EA 16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,385.54	401.77
For Class 52 Rating, Deduct	-85.45	
For Class 54 Rating, Add	58.26	
For Class 55 Rating, Add	129.49	
40 05 19 00-1272 EA 16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,471.88	403.84
For Class 52 Rating, Deduct	-94.60	
For Class 54 Rating, Add	64.50	
For Class 55 Rating, Add	143.36	
40 05 19 00-1273 EA 16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,558.22	405.91
For Class 52 Rating, Deduct	-103.75	
For Class 54 Rating, Add	70.74	
For Class 55 Rating, Add	157.23	
40 05 19 00-1274 EA 16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,644.55	407.99
For Class 52 Rating, Deduct	-112.90	
For Class 54 Rating, Add	76.98	
For Class 55 Rating, Add	171.10	
40 05 19 00-1275 EA 16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,730.90	410.06
For Class 52 Rating, Deduct	-122.06	
For Class 54 Rating, Add	83.22	
For Class 55 Rating, Add	184.97	
40 05 19 00-1276 EA 16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,817.23	412.13
For Class 52 Rating, Deduct	-131.21	
For Class 54 Rating, Add	89.46	
For Class 55 Rating, Add	198.84	
40 05 19 00-1277 EA 16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,903.57	414.19
For Class 52 Rating, Deduct	-140.36	
For Class 54 Rating, Add	95.70	
For Class 55 Rating, Add	212.71	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1278	EA		16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,989.91	416.27
			<i>For Class 52 Rating, Deduct</i>	-149.51	
			<i>For Class 54 Rating, Add</i>	101.94	
			<i>For Class 55 Rating, Add</i>	226.58	
40 05 19 00-1279	EA		16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,076.24	418.33
			<i>For Class 52 Rating, Deduct</i>	-158.66	
			<i>For Class 54 Rating, Add</i>	108.18	
			<i>For Class 55 Rating, Add</i>	240.45	
40 05 19 00-1280	EA		16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,162.58	420.41
			<i>For Class 52 Rating, Deduct</i>	-167.82	
			<i>For Class 54 Rating, Add</i>	114.42	
			<i>For Class 55 Rating, Add</i>	254.32	
40 05 19 00-1281	EA		16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,248.92	422.48
			<i>For Class 52 Rating, Deduct</i>	-176.97	
			<i>For Class 54 Rating, Add</i>	120.66	
			<i>For Class 55 Rating, Add</i>	268.19	
40 05 19 00-1282	EA		16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,335.26	424.56
			<i>For Class 52 Rating, Deduct</i>	-186.12	
			<i>For Class 54 Rating, Add</i>	126.90	
			<i>For Class 55 Rating, Add</i>	282.06	
40 05 19 00-1283	EA		16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,421.59	426.62
			<i>For Class 52 Rating, Deduct</i>	-195.27	
			<i>For Class 54 Rating, Add</i>	133.14	
			<i>For Class 55 Rating, Add</i>	295.93	
40 05 19 00-1284	EA		16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,507.94	428.69
			<i>For Class 52 Rating, Deduct</i>	-204.42	
			<i>For Class 54 Rating, Add</i>	139.38	
			<i>For Class 55 Rating, Add</i>	309.80	
40 05 19 00-1285	EA		16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,594.27	430.76
			<i>For Class 52 Rating, Deduct</i>	-213.58	
			<i>For Class 54 Rating, Add</i>	145.62	
			<i>For Class 55 Rating, Add</i>	323.66	
40 05 19 00-1286	EA		16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,680.61	432.83
			<i>For Class 52 Rating, Deduct</i>	-222.73	
			<i>For Class 54 Rating, Add</i>	151.86	
			<i>For Class 55 Rating, Add</i>	337.53	
40 05 19 00-1287	EA		16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,766.95	434.90
			<i>For Class 52 Rating, Deduct</i>	-231.88	
			<i>For Class 54 Rating, Add</i>	158.10	
			<i>For Class 55 Rating, Add</i>	351.40	
40 05 19 00-1288	EA		16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,853.28	436.98
			<i>For Class 52 Rating, Deduct</i>	-241.03	
			<i>For Class 54 Rating, Add</i>	164.34	
			<i>For Class 55 Rating, Add</i>	365.27	
40 05 19 00-1289	EA		16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,939.63	439.05
			<i>For Class 52 Rating, Deduct</i>	-250.18	
			<i>For Class 54 Rating, Add</i>	170.58	
			<i>For Class 55 Rating, Add</i>	379.14	
40 05 19 00-1290	EA		16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,025.96	441.11
			<i>For Class 52 Rating, Deduct</i>	-259.34	
			<i>For Class 54 Rating, Add</i>	176.82	
			<i>For Class 55 Rating, Add</i>	393.01	
40 05 19 00-1291	EA		16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,112.30	443.19
			<i>For Class 52 Rating, Deduct</i>	-268.49	
			<i>For Class 54 Rating, Add</i>	183.06	
			<i>For Class 55 Rating, Add</i>	406.88	
40 05 19 00-1292	EA		16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,198.64	445.26
			<i>For Class 52 Rating, Deduct</i>	-277.64	
			<i>For Class 54 Rating, Add</i>	189.30	
			<i>For Class 55 Rating, Add</i>	420.75	
40 05 19 00-1293	EA		16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,284.98	447.34
			<i>For Class 52 Rating, Deduct</i>	-286.79	
			<i>For Class 54 Rating, Add</i>	195.54	
			<i>For Class 55 Rating, Add</i>	434.62	
40 05 19 00-1294	EA		16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,371.31	449.40
			<i>For Class 52 Rating, Deduct</i>	-295.94	
			<i>For Class 54 Rating, Add</i>	201.78	
			<i>For Class 55 Rating, Add</i>	448.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1295 EA 16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,457.65	451.48
For Class 52 Rating, Deduct	-305.10	
For Class 54 Rating, Add	208.02	
For Class 55 Rating, Add	462.36	
40 05 19 00-1296 EA 16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,543.99	453.55
For Class 52 Rating, Deduct	-314.25	
For Class 54 Rating, Add	214.26	
For Class 55 Rating, Add	476.23	
40 05 19 00-1297 EA 16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,630.32	455.61
For Class 52 Rating, Deduct	-323.40	
For Class 54 Rating, Add	220.50	
For Class 55 Rating, Add	490.10	
40 05 19 00-1298 EA 16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,716.67	457.68
For Class 52 Rating, Deduct	-332.55	
For Class 54 Rating, Add	226.74	
For Class 55 Rating, Add	503.97	
40 05 19 00-1299 EA 16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,803.00	459.76
For Class 52 Rating, Deduct	-341.70	
For Class 54 Rating, Add	232.98	
For Class 55 Rating, Add	517.84	
40 05 19 00-1300 EA 16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,889.34	461.83
For Class 52 Rating, Deduct	-350.86	
For Class 54 Rating, Add	239.22	
For Class 55 Rating, Add	531.71	
40 05 19 00-1301 EA 16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,975.68	463.90
For Class 52 Rating, Deduct	-360.01	
For Class 54 Rating, Add	245.46	
For Class 55 Rating, Add	545.58	
40 05 19 00-1302 EA 16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,062.02	465.97
For Class 52 Rating, Deduct	-369.16	
For Class 54 Rating, Add	251.70	
For Class 55 Rating, Add	559.45	
40 05 19 00-1303 EA 16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,148.35	468.05
For Class 52 Rating, Deduct	-378.31	
For Class 54 Rating, Add	257.94	
For Class 55 Rating, Add	573.31	
40 05 19 00-1304 EA 16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,234.69	470.10
For Class 52 Rating, Deduct	-387.46	
For Class 54 Rating, Add	264.18	
For Class 55 Rating, Add	587.18	
40 05 19 00-1305 EA 16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,321.03	472.18
For Class 52 Rating, Deduct	-396.62	
For Class 54 Rating, Add	270.42	
For Class 55 Rating, Add	601.05	
40 05 19 00-1306 EA 16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,407.36	474.25
For Class 52 Rating, Deduct	-405.77	
For Class 54 Rating, Add	276.66	
For Class 55 Rating, Add	614.92	
40 05 19 00-1307 18" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1308 EA 18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,395.03	448.16
For Class 52 Rating, Deduct	-78.76	
For Class 54 Rating, Add	53.70	
For Class 55 Rating, Add	119.36	
40 05 19 00-1309 EA 18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,494.17	450.23
For Class 52 Rating, Deduct	-89.32	
For Class 54 Rating, Add	60.90	
For Class 55 Rating, Add	135.36	
40 05 19 00-1310 EA 18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,593.31	452.30
For Class 52 Rating, Deduct	-99.88	
For Class 54 Rating, Add	68.10	
For Class 55 Rating, Add	151.36	
40 05 19 00-1311 EA 18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,692.45	454.37
For Class 52 Rating, Deduct	-110.44	
For Class 54 Rating, Add	75.30	
For Class 55 Rating, Add	167.37	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1312	EA		18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,791.58	456.45
			For Class 52 Rating, Deduct	-121.00	
			For Class 54 Rating, Add	82.50	
			For Class 55 Rating, Add	183.37	
40 05 19 00-1313	EA		18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,890.72	458.51
			For Class 52 Rating, Deduct	-131.56	
			For Class 54 Rating, Add	89.70	
			For Class 55 Rating, Add	199.37	
40 05 19 00-1314	EA		18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,989.86	460.59
			For Class 52 Rating, Deduct	-142.12	
			For Class 54 Rating, Add	96.90	
			For Class 55 Rating, Add	215.38	
40 05 19 00-1315	EA		18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,088.99	462.65
			For Class 52 Rating, Deduct	-152.68	
			For Class 54 Rating, Add	104.10	
			For Class 55 Rating, Add	231.38	
40 05 19 00-1316	EA		18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,188.14	464.73
			For Class 52 Rating, Deduct	-163.24	
			For Class 54 Rating, Add	111.30	
			For Class 55 Rating, Add	247.38	
40 05 19 00-1317	EA		18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,287.27	466.80
			For Class 52 Rating, Deduct	-173.80	
			For Class 54 Rating, Add	118.50	
			For Class 55 Rating, Add	263.39	
40 05 19 00-1318	EA		18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,386.41	468.87
			For Class 52 Rating, Deduct	-184.36	
			For Class 54 Rating, Add	125.70	
			For Class 55 Rating, Add	279.39	
40 05 19 00-1319	EA		18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,485.55	470.95
			For Class 52 Rating, Deduct	-194.92	
			For Class 54 Rating, Add	132.90	
			For Class 55 Rating, Add	295.39	
40 05 19 00-1320	EA		18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,584.69	473.01
			For Class 52 Rating, Deduct	-205.48	
			For Class 54 Rating, Add	140.10	
			For Class 55 Rating, Add	311.40	
40 05 19 00-1321	EA		18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,683.82	475.08
			For Class 52 Rating, Deduct	-216.04	
			For Class 54 Rating, Add	147.30	
			For Class 55 Rating, Add	327.40	
40 05 19 00-1322	EA		18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,782.96	477.15
			For Class 52 Rating, Deduct	-226.60	
			For Class 54 Rating, Add	154.50	
			For Class 55 Rating, Add	343.40	
40 05 19 00-1323	EA		18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,882.10	479.23
			For Class 52 Rating, Deduct	-237.16	
			For Class 54 Rating, Add	161.70	
			For Class 55 Rating, Add	359.41	
40 05 19 00-1324	EA		18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,981.23	481.29
			For Class 52 Rating, Deduct	-247.72	
			For Class 54 Rating, Add	168.90	
			For Class 55 Rating, Add	375.41	
40 05 19 00-1325	EA		18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,080.38	483.37
			For Class 52 Rating, Deduct	-258.28	
			For Class 54 Rating, Add	176.10	
			For Class 55 Rating, Add	391.41	
40 05 19 00-1326	EA		18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,179.51	485.44
			For Class 52 Rating, Deduct	-268.84	
			For Class 54 Rating, Add	183.30	
			For Class 55 Rating, Add	407.41	
40 05 19 00-1327	EA		18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,278.65	487.51
			For Class 52 Rating, Deduct	-279.40	
			For Class 54 Rating, Add	190.50	
			For Class 55 Rating, Add	423.42	
40 05 19 00-1328	EA		18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,377.79	489.57
			For Class 52 Rating, Deduct	-289.96	
			For Class 54 Rating, Add	197.70	
			For Class 55 Rating, Add	439.42	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40 05 19
Ductile Iron Process Pipe	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1329 EA 18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,476.93	491.65
<i>For Class 52 Rating, Deduct</i>	-300.52	
<i>For Class 54 Rating, Add</i>	204.90	
<i>For Class 55 Rating, Add</i>	455.42	
40 05 19 00-1330 EA 18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,576.07	493.72
<i>For Class 52 Rating, Deduct</i>	-311.08	
<i>For Class 54 Rating, Add</i>	212.10	
<i>For Class 55 Rating, Add</i>	471.43	
40 05 19 00-1331 EA 18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,675.20	495.79
<i>For Class 52 Rating, Deduct</i>	-321.64	
<i>For Class 54 Rating, Add</i>	219.30	
<i>For Class 55 Rating, Add</i>	487.43	
40 05 19 00-1332 EA 18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,774.34	497.86
<i>For Class 52 Rating, Deduct</i>	-332.20	
<i>For Class 54 Rating, Add</i>	226.50	
<i>For Class 55 Rating, Add</i>	503.43	
40 05 19 00-1333 EA 18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,873.48	499.94
<i>For Class 52 Rating, Deduct</i>	-342.76	
<i>For Class 54 Rating, Add</i>	233.70	
<i>For Class 55 Rating, Add</i>	519.44	
40 05 19 00-1334 EA 18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,972.62	502.01
<i>For Class 52 Rating, Deduct</i>	-353.32	
<i>For Class 54 Rating, Add</i>	240.90	
<i>For Class 55 Rating, Add</i>	535.44	
40 05 19 00-1335 EA 18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,071.75	504.07
<i>For Class 52 Rating, Deduct</i>	-363.88	
<i>For Class 54 Rating, Add</i>	248.10	
<i>For Class 55 Rating, Add</i>	551.44	
40 05 19 00-1336 EA 18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,170.90	506.14
<i>For Class 52 Rating, Deduct</i>	-374.44	
<i>For Class 54 Rating, Add</i>	255.30	
<i>For Class 55 Rating, Add</i>	567.45	
40 05 19 00-1337 EA 18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,270.03	508.22
<i>For Class 52 Rating, Deduct</i>	-385.00	
<i>For Class 54 Rating, Add</i>	262.50	
<i>For Class 55 Rating, Add</i>	583.45	
40 05 19 00-1338 EA 18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,369.16	510.29
<i>For Class 52 Rating, Deduct</i>	-395.56	
<i>For Class 54 Rating, Add</i>	269.70	
<i>For Class 55 Rating, Add</i>	599.45	
40 05 19 00-1339 EA 18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,468.31	512.36
<i>For Class 52 Rating, Deduct</i>	-406.12	
<i>For Class 54 Rating, Add</i>	276.90	
<i>For Class 55 Rating, Add</i>	615.46	
40 05 19 00-1340 EA 18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,567.44	514.44
<i>For Class 52 Rating, Deduct</i>	-416.68	
<i>For Class 54 Rating, Add</i>	284.10	
<i>For Class 55 Rating, Add</i>	631.46	
40 05 19 00-1341 EA 18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,666.58	516.51
<i>For Class 52 Rating, Deduct</i>	-427.24	
<i>For Class 54 Rating, Add</i>	291.30	
<i>For Class 55 Rating, Add</i>	647.46	
40 05 19 00-1342 EA 18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,765.72	518.57
<i>For Class 52 Rating, Deduct</i>	-437.80	
<i>For Class 54 Rating, Add</i>	298.50	
<i>For Class 55 Rating, Add</i>	663.47	
40 05 19 00-1343 EA 18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,864.86	520.64
<i>For Class 52 Rating, Deduct</i>	-448.36	
<i>For Class 54 Rating, Add</i>	305.70	
<i>For Class 55 Rating, Add</i>	679.47	
40 05 19 00-1344 EA 18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,963.99	522.72
<i>For Class 52 Rating, Deduct</i>	-458.92	
<i>For Class 54 Rating, Add</i>	312.90	
<i>For Class 55 Rating, Add</i>	695.47	
40 05 19 00-1345 EA 18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,063.14	524.78
<i>For Class 52 Rating, Deduct</i>	-469.48	
<i>For Class 54 Rating, Add</i>	320.10	
<i>For Class 55 Rating, Add</i>	711.48	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1346			20" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1347	EA		20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,618.24	511.53
			For Class 52 Rating, Deduct	-92.75	
			For Class 54 Rating, Add	63.24	
			For Class 55 Rating, Add	140.56	
40 05 19 00-1348	EA		20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,731.79	513.60
			For Class 52 Rating, Deduct	-104.90	
			For Class 54 Rating, Add	71.52	
			For Class 55 Rating, Add	158.97	
40 05 19 00-1349	EA		20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,845.32	515.67
			For Class 52 Rating, Deduct	-117.04	
			For Class 54 Rating, Add	79.80	
			For Class 55 Rating, Add	177.37	
40 05 19 00-1350	EA		20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,958.87	517.74
			For Class 52 Rating, Deduct	-129.18	
			For Class 54 Rating, Add	88.08	
			For Class 55 Rating, Add	195.77	
40 05 19 00-1351	EA		20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,072.40	519.82
			For Class 52 Rating, Deduct	-141.33	
			For Class 54 Rating, Add	96.36	
			For Class 55 Rating, Add	214.18	
40 05 19 00-1352	EA		20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,185.94	521.89
			For Class 52 Rating, Deduct	-153.47	
			For Class 54 Rating, Add	104.64	
			For Class 55 Rating, Add	232.58	
40 05 19 00-1353	EA		20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,299.48	523.96
			For Class 52 Rating, Deduct	-165.62	
			For Class 54 Rating, Add	112.92	
			For Class 55 Rating, Add	250.98	
40 05 19 00-1354	EA		20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,413.01	526.03
			For Class 52 Rating, Deduct	-177.76	
			For Class 54 Rating, Add	121.20	
			For Class 55 Rating, Add	269.39	
40 05 19 00-1355	EA		20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,526.55	528.10
			For Class 52 Rating, Deduct	-189.90	
			For Class 54 Rating, Add	129.48	
			For Class 55 Rating, Add	287.79	
40 05 19 00-1356	EA		20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,640.09	530.17
			For Class 52 Rating, Deduct	-202.05	
			For Class 54 Rating, Add	137.76	
			For Class 55 Rating, Add	306.19	
40 05 19 00-1357	EA		20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,753.63	532.24
			For Class 52 Rating, Deduct	-214.19	
			For Class 54 Rating, Add	146.04	
			For Class 55 Rating, Add	324.60	
40 05 19 00-1358	EA		20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,867.16	534.32
			For Class 52 Rating, Deduct	-226.34	
			For Class 54 Rating, Add	154.32	
			For Class 55 Rating, Add	343.00	
40 05 19 00-1359	EA		20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,980.71	536.38
			For Class 52 Rating, Deduct	-238.48	
			For Class 54 Rating, Add	162.60	
			For Class 55 Rating, Add	361.41	
40 05 19 00-1360	EA		20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,094.24	538.46
			For Class 52 Rating, Deduct	-250.62	
			For Class 54 Rating, Add	170.88	
			For Class 55 Rating, Add	379.81	
40 05 19 00-1361	EA		20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,207.78	540.52
			For Class 52 Rating, Deduct	-262.77	
			For Class 54 Rating, Add	179.16	
			For Class 55 Rating, Add	398.21	
40 05 19 00-1362	EA		20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,321.32	542.60
			For Class 52 Rating, Deduct	-274.91	
			For Class 54 Rating, Add	187.44	
			For Class 55 Rating, Add	416.62	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1363 EA 20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,434.85	544.66
<i>For Class 52 Rating, Deduct</i>	-287.06	
<i>For Class 54 Rating, Add</i>	195.72	
<i>For Class 55 Rating, Add</i>	435.02	
40 05 19 00-1364 EA 20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,548.39	546.74
<i>For Class 52 Rating, Deduct</i>	-299.20	
<i>For Class 54 Rating, Add</i>	204.00	
<i>For Class 55 Rating, Add</i>	453.42	
40 05 19 00-1365 EA 20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,661.93	548.81
<i>For Class 52 Rating, Deduct</i>	-311.34	
<i>For Class 54 Rating, Add</i>	212.28	
<i>For Class 55 Rating, Add</i>	471.83	
40 05 19 00-1366 EA 20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,775.47	550.89
<i>For Class 52 Rating, Deduct</i>	-323.49	
<i>For Class 54 Rating, Add</i>	220.56	
<i>For Class 55 Rating, Add</i>	490.23	
40 05 19 00-1367 EA 20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,889.00	552.95
<i>For Class 52 Rating, Deduct</i>	-335.63	
<i>For Class 54 Rating, Add</i>	228.84	
<i>For Class 55 Rating, Add</i>	508.64	
40 05 19 00-1368 EA 20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,002.55	555.02
<i>For Class 52 Rating, Deduct</i>	-347.78	
<i>For Class 54 Rating, Add</i>	237.12	
<i>For Class 55 Rating, Add</i>	527.04	
40 05 19 00-1369 EA 20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,116.08	557.09
<i>For Class 52 Rating, Deduct</i>	-359.92	
<i>For Class 54 Rating, Add</i>	245.40	
<i>For Class 55 Rating, Add</i>	545.44	
40 05 19 00-1370 EA 20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,229.62	559.16
<i>For Class 52 Rating, Deduct</i>	-372.06	
<i>For Class 54 Rating, Add</i>	253.68	
<i>For Class 55 Rating, Add</i>	563.85	
40 05 19 00-1371 EA 20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,343.16	561.23
<i>For Class 52 Rating, Deduct</i>	-384.21	
<i>For Class 54 Rating, Add</i>	261.96	
<i>For Class 55 Rating, Add</i>	582.25	
40 05 19 00-1372 EA 20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,456.69	563.31
<i>For Class 52 Rating, Deduct</i>	-396.35	
<i>For Class 54 Rating, Add</i>	270.24	
<i>For Class 55 Rating, Add</i>	600.65	
40 05 19 00-1373 EA 20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,570.23	565.38
<i>For Class 52 Rating, Deduct</i>	-408.50	
<i>For Class 54 Rating, Add</i>	278.52	
<i>For Class 55 Rating, Add</i>	619.06	
40 05 19 00-1374 EA 20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,683.77	567.44
<i>For Class 52 Rating, Deduct</i>	-420.64	
<i>For Class 54 Rating, Add</i>	286.80	
<i>For Class 55 Rating, Add</i>	637.46	
40 05 19 00-1375 EA 20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,797.31	569.52
<i>For Class 52 Rating, Deduct</i>	-432.78	
<i>For Class 54 Rating, Add</i>	295.08	
<i>For Class 55 Rating, Add</i>	655.86	
40 05 19 00-1376 EA 20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,910.84	571.59
<i>For Class 52 Rating, Deduct</i>	-444.93	
<i>For Class 54 Rating, Add</i>	303.36	
<i>For Class 55 Rating, Add</i>	674.27	
40 05 19 00-1377 EA 20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,024.39	573.66
<i>For Class 52 Rating, Deduct</i>	-457.07	
<i>For Class 54 Rating, Add</i>	311.64	
<i>For Class 55 Rating, Add</i>	692.67	
40 05 19 00-1378 EA 20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,137.92	575.73
<i>For Class 52 Rating, Deduct</i>	-469.22	
<i>For Class 54 Rating, Add</i>	319.92	
<i>For Class 55 Rating, Add</i>	711.08	
40 05 19 00-1379 EA 20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,251.46	577.81
<i>For Class 52 Rating, Deduct</i>	-481.36	
<i>For Class 54 Rating, Add</i>	328.20	
<i>For Class 55 Rating, Add</i>	729.48	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1380	EA		20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,365.00	579.88
			<i>For Class 52 Rating, Deduct</i>	-493.50	
			<i>For Class 54 Rating, Add</i>	336.48	
			<i>For Class 55 Rating, Add</i>	747.88	
40 05 19 00-1381	EA		20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,478.53	581.94
			<i>For Class 52 Rating, Deduct</i>	-505.65	
			<i>For Class 54 Rating, Add</i>	344.76	
			<i>For Class 55 Rating, Add</i>	766.29	
40 05 19 00-1382	EA		20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,592.07	584.01
			<i>For Class 52 Rating, Deduct</i>	-517.79	
			<i>For Class 54 Rating, Add</i>	353.04	
			<i>For Class 55 Rating, Add</i>	784.69	
40 05 19 00-1383	EA		20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,705.61	586.09
			<i>For Class 52 Rating, Deduct</i>	-529.94	
			<i>For Class 54 Rating, Add</i>	361.32	
			<i>For Class 55 Rating, Add</i>	803.09	
40 05 19 00-1384	EA		20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,819.15	588.15
			<i>For Class 52 Rating, Deduct</i>	-542.08	
			<i>For Class 54 Rating, Add</i>	369.60	
			<i>For Class 55 Rating, Add</i>	821.50	
40 05 19 00-1385			24" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1386	EA		24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,969.05	604.73
			<i>For Class 52 Rating, Deduct</i>	-115.81	
			<i>For Class 54 Rating, Add</i>	78.96	
			<i>For Class 55 Rating, Add</i>	175.50	
40 05 19 00-1387	EA		24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,108.99	606.80
			<i>For Class 52 Rating, Deduct</i>	-130.86	
			<i>For Class 54 Rating, Add</i>	89.22	
			<i>For Class 55 Rating, Add</i>	198.31	
40 05 19 00-1388	EA		24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,248.93	608.88
			<i>For Class 52 Rating, Deduct</i>	-145.90	
			<i>For Class 54 Rating, Add</i>	99.48	
			<i>For Class 55 Rating, Add</i>	221.11	
40 05 19 00-1389	EA		24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,388.87	610.93
			<i>For Class 52 Rating, Deduct</i>	-160.95	
			<i>For Class 54 Rating, Add</i>	109.74	
			<i>For Class 55 Rating, Add</i>	243.92	
40 05 19 00-1390	EA		24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,528.80	613.01
			<i>For Class 52 Rating, Deduct</i>	-176.00	
			<i>For Class 54 Rating, Add</i>	120.00	
			<i>For Class 55 Rating, Add</i>	266.72	
40 05 19 00-1391	EA		24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,668.74	615.08
			<i>For Class 52 Rating, Deduct</i>	-191.05	
			<i>For Class 54 Rating, Add</i>	130.26	
			<i>For Class 55 Rating, Add</i>	289.52	
40 05 19 00-1392	EA		24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,808.68	617.16
			<i>For Class 52 Rating, Deduct</i>	-206.10	
			<i>For Class 54 Rating, Add</i>	140.52	
			<i>For Class 55 Rating, Add</i>	312.33	
40 05 19 00-1393	EA		24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,948.61	619.22
			<i>For Class 52 Rating, Deduct</i>	-221.14	
			<i>For Class 54 Rating, Add</i>	150.78	
			<i>For Class 55 Rating, Add</i>	335.13	
40 05 19 00-1394	EA		24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,088.56	621.30
			<i>For Class 52 Rating, Deduct</i>	-236.19	
			<i>For Class 54 Rating, Add</i>	161.04	
			<i>For Class 55 Rating, Add</i>	357.94	
40 05 19 00-1395	EA		24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,228.49	623.37
			<i>For Class 52 Rating, Deduct</i>	-251.24	
			<i>For Class 54 Rating, Add</i>	171.30	
			<i>For Class 55 Rating, Add</i>	380.74	
40 05 19 00-1396	EA		24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,368.43	625.43
			<i>For Class 52 Rating, Deduct</i>	-266.29	
			<i>For Class 54 Rating, Add</i>	181.56	
			<i>For Class 55 Rating, Add</i>	403.55	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1397 EA 24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,508.37	627.50
<i>For Class 52 Rating, Deduct</i>	-281.34	
<i>For Class 54 Rating, Add</i>	191.82	
<i>For Class 55 Rating, Add</i>	426.35	
40 05 19 00-1398 EA 24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,648.31	629.58
<i>For Class 52 Rating, Deduct</i>	-296.38	
<i>For Class 54 Rating, Add</i>	202.08	
<i>For Class 55 Rating, Add</i>	449.16	
40 05 19 00-1399 EA 24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,788.24	631.65
<i>For Class 52 Rating, Deduct</i>	-311.43	
<i>For Class 54 Rating, Add</i>	212.34	
<i>For Class 55 Rating, Add</i>	471.96	
40 05 19 00-1400 EA 24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,928.18	633.72
<i>For Class 52 Rating, Deduct</i>	-326.48	
<i>For Class 54 Rating, Add</i>	222.60	
<i>For Class 55 Rating, Add</i>	494.77	
40 05 19 00-1401 EA 24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,068.12	635.79
<i>For Class 52 Rating, Deduct</i>	-341.53	
<i>For Class 54 Rating, Add</i>	232.86	
<i>For Class 55 Rating, Add</i>	517.57	
40 05 19 00-1402 EA 24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,208.05	637.86
<i>For Class 52 Rating, Deduct</i>	-356.58	
<i>For Class 54 Rating, Add</i>	243.12	
<i>For Class 55 Rating, Add</i>	540.37	
40 05 19 00-1403 EA 24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,348.00	639.93
<i>For Class 52 Rating, Deduct</i>	-371.62	
<i>For Class 54 Rating, Add</i>	253.38	
<i>For Class 55 Rating, Add</i>	563.18	
40 05 19 00-1404 EA 24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,487.93	642.00
<i>For Class 52 Rating, Deduct</i>	-386.67	
<i>For Class 54 Rating, Add</i>	263.64	
<i>For Class 55 Rating, Add</i>	585.98	
40 05 19 00-1405 EA 24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,627.87	644.07
<i>For Class 52 Rating, Deduct</i>	-401.72	
<i>For Class 54 Rating, Add</i>	273.90	
<i>For Class 55 Rating, Add</i>	608.79	
40 05 19 00-1406 EA 24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,767.81	646.15
<i>For Class 52 Rating, Deduct</i>	-416.77	
<i>For Class 54 Rating, Add</i>	284.16	
<i>For Class 55 Rating, Add</i>	631.59	
40 05 19 00-1407 EA 24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,907.75	648.22
<i>For Class 52 Rating, Deduct</i>	-431.82	
<i>For Class 54 Rating, Add</i>	294.42	
<i>For Class 55 Rating, Add</i>	654.40	
40 05 19 00-1408 EA 24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,047.68	650.29
<i>For Class 52 Rating, Deduct</i>	-446.86	
<i>For Class 54 Rating, Add</i>	304.68	
<i>For Class 55 Rating, Add</i>	677.20	
40 05 19 00-1409 EA 24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,187.62	652.36
<i>For Class 52 Rating, Deduct</i>	-461.91	
<i>For Class 54 Rating, Add</i>	314.94	
<i>For Class 55 Rating, Add</i>	700.01	
40 05 19 00-1410 EA 24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,327.56	654.43
<i>For Class 52 Rating, Deduct</i>	-476.96	
<i>For Class 54 Rating, Add</i>	325.20	
<i>For Class 55 Rating, Add</i>	722.81	
40 05 19 00-1411 EA 24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,467.49	656.50
<i>For Class 52 Rating, Deduct</i>	-492.01	
<i>For Class 54 Rating, Add</i>	335.46	
<i>For Class 55 Rating, Add</i>	745.62	
40 05 19 00-1412 EA 24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,607.44	658.57
<i>For Class 52 Rating, Deduct</i>	-507.06	
<i>For Class 54 Rating, Add</i>	345.72	
<i>For Class 55 Rating, Add</i>	768.42	
40 05 19 00-1413 EA 24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,747.37	660.65
<i>For Class 52 Rating, Deduct</i>	-522.10	
<i>For Class 54 Rating, Add</i>	355.98	
<i>For Class 55 Rating, Add</i>	791.22	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1414	EA		24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,887.31	662.71
			For Class 52 Rating, Deduct	-537.15	
			For Class 54 Rating, Add	366.24	
			For Class 55 Rating, Add	814.03	
40 05 19 00-1415	EA		24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,080.60	699.99
			For Class 52 Rating, Deduct	-552.20	
			For Class 54 Rating, Add	376.50	
			For Class 55 Rating, Add	836.83	
40 05 19 00-1416	EA		24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,220.53	702.06
			For Class 52 Rating, Deduct	-567.25	
			For Class 54 Rating, Add	386.76	
			For Class 55 Rating, Add	859.64	
40 05 19 00-1417	EA		24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,360.47	704.14
			For Class 52 Rating, Deduct	-582.30	
			For Class 54 Rating, Add	397.02	
			For Class 55 Rating, Add	882.44	
40 05 19 00-1418	EA		24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,500.41	706.21
			For Class 52 Rating, Deduct	-597.34	
			For Class 54 Rating, Add	407.28	
			For Class 55 Rating, Add	905.25	
40 05 19 00-1419	EA		24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,640.34	708.27
			For Class 52 Rating, Deduct	-612.39	
			For Class 54 Rating, Add	417.54	
			For Class 55 Rating, Add	928.05	
40 05 19 00-1420	EA		24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,780.28	710.34
			For Class 52 Rating, Deduct	-627.44	
			For Class 54 Rating, Add	427.80	
			For Class 55 Rating, Add	950.86	
40 05 19 00-1421	EA		24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,920.22	712.42
			For Class 52 Rating, Deduct	-642.49	
			For Class 54 Rating, Add	438.06	
			For Class 55 Rating, Add	973.66	
40 05 19 00-1422	EA		24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,060.16	714.48
			For Class 52 Rating, Deduct	-657.54	
			For Class 54 Rating, Add	448.32	
			For Class 55 Rating, Add	996.47	
40 05 19 00-1423	EA		24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,200.09	716.56
			For Class 52 Rating, Deduct	-672.58	
			For Class 54 Rating, Add	458.58	
			For Class 55 Rating, Add	1,019.27	
40 05 19 00-1424			30" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1425	EA		30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,956.79	853.25
			For Class 52 Rating, Deduct	-183.04	
			For Class 54 Rating, Add	124.80	
			For Class 55 Rating, Add	277.39	
40 05 19 00-1426	EA		30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,157.53	855.31
			For Class 52 Rating, Deduct	-204.78	
			For Class 54 Rating, Add	139.62	
			For Class 55 Rating, Add	310.33	
40 05 19 00-1427	EA		30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,358.27	857.39
			For Class 52 Rating, Deduct	-226.51	
			For Class 54 Rating, Add	154.44	
			For Class 55 Rating, Add	343.27	
40 05 19 00-1428	EA		30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,559.01	859.46
			For Class 52 Rating, Deduct	-248.25	
			For Class 54 Rating, Add	169.26	
			For Class 55 Rating, Add	376.21	
40 05 19 00-1429	EA		30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,759.74	861.54
			For Class 52 Rating, Deduct	-269.98	
			For Class 54 Rating, Add	184.08	
			For Class 55 Rating, Add	409.15	
40 05 19 00-1430	EA		30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,960.49	863.59
			For Class 52 Rating, Deduct	-291.72	
			For Class 54 Rating, Add	198.90	
			For Class 55 Rating, Add	442.09	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1431 EA 30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,161.22	865.67
<i>For Class 52 Rating, Deduct</i>	-313.46	
<i>For Class 54 Rating, Add</i>	213.72	
<i>For Class 55 Rating, Add</i>	475.03	
40 05 19 00-1432 EA 30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,361.95	867.74
<i>For Class 52 Rating, Deduct</i>	-335.19	
<i>For Class 54 Rating, Add</i>	228.54	
<i>For Class 55 Rating, Add</i>	507.97	
40 05 19 00-1433 EA 30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,562.70	869.81
<i>For Class 52 Rating, Deduct</i>	-356.93	
<i>For Class 54 Rating, Add</i>	243.36	
<i>For Class 55 Rating, Add</i>	540.91	
40 05 19 00-1434 EA 30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,763.43	871.88
<i>For Class 52 Rating, Deduct</i>	-378.66	
<i>For Class 54 Rating, Add</i>	258.18	
<i>For Class 55 Rating, Add</i>	573.85	
40 05 19 00-1435 EA 30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,964.17	873.96
<i>For Class 52 Rating, Deduct</i>	-400.40	
<i>For Class 54 Rating, Add</i>	273.00	
<i>For Class 55 Rating, Add</i>	606.79	
40 05 19 00-1436 EA 30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,164.91	876.02
<i>For Class 52 Rating, Deduct</i>	-422.14	
<i>For Class 54 Rating, Add</i>	287.82	
<i>For Class 55 Rating, Add</i>	639.73	
40 05 19 00-1437 EA 30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,365.65	878.09
<i>For Class 52 Rating, Deduct</i>	-443.87	
<i>For Class 54 Rating, Add</i>	302.64	
<i>For Class 55 Rating, Add</i>	672.67	
40 05 19 00-1438 EA 30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,566.38	880.16
<i>For Class 52 Rating, Deduct</i>	-465.61	
<i>For Class 54 Rating, Add</i>	317.46	
<i>For Class 55 Rating, Add</i>	705.61	
40 05 19 00-1439 EA 30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,767.13	882.24
<i>For Class 52 Rating, Deduct</i>	-487.34	
<i>For Class 54 Rating, Add</i>	332.28	
<i>For Class 55 Rating, Add</i>	738.55	
40 05 19 00-1440 EA 30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,967.86	884.31
<i>For Class 52 Rating, Deduct</i>	-509.08	
<i>For Class 54 Rating, Add</i>	347.10	
<i>For Class 55 Rating, Add</i>	771.49	
40 05 19 00-1441 EA 30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,168.59	886.38
<i>For Class 52 Rating, Deduct</i>	-530.82	
<i>For Class 54 Rating, Add</i>	361.92	
<i>For Class 55 Rating, Add</i>	804.43	
40 05 19 00-1442 EA 30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,369.34	888.46
<i>For Class 52 Rating, Deduct</i>	-552.55	
<i>For Class 54 Rating, Add</i>	376.74	
<i>For Class 55 Rating, Add</i>	837.37	
40 05 19 00-1443 EA 30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,570.07	890.52
<i>For Class 52 Rating, Deduct</i>	-574.29	
<i>For Class 54 Rating, Add</i>	391.56	
<i>For Class 55 Rating, Add</i>	870.31	
40 05 19 00-1444 EA 30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,770.81	892.59
<i>For Class 52 Rating, Deduct</i>	-596.02	
<i>For Class 54 Rating, Add</i>	406.38	
<i>For Class 55 Rating, Add</i>	903.25	
40 05 19 00-1445 EA 30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,971.55	894.66
<i>For Class 52 Rating, Deduct</i>	-617.76	
<i>For Class 54 Rating, Add</i>	421.20	
<i>For Class 55 Rating, Add</i>	936.19	
40 05 19 00-1446 EA 30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,172.29	896.74
<i>For Class 52 Rating, Deduct</i>	-639.50	
<i>For Class 54 Rating, Add</i>	436.02	
<i>For Class 55 Rating, Add</i>	969.13	
40 05 19 00-1447 EA 30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,373.02	898.80
<i>For Class 52 Rating, Deduct</i>	-661.23	
<i>For Class 54 Rating, Add</i>	450.84	
<i>For Class 55 Rating, Add</i>	1,002.07	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1448	EA		30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,573.77	900.88
			<i>For Class 52 Rating, Deduct</i>	-682.97	
			<i>For Class 54 Rating, Add</i>	465.66	
			<i>For Class 55 Rating, Add</i>	1,035.01	
40 05 19 00-1449	EA		30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,774.50	902.95
			<i>For Class 52 Rating, Deduct</i>	-704.70	
			<i>For Class 54 Rating, Add</i>	480.48	
			<i>For Class 55 Rating, Add</i>	1,067.95	
40 05 19 00-1450	EA		30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,975.23	905.02
			<i>For Class 52 Rating, Deduct</i>	-726.44	
			<i>For Class 54 Rating, Add</i>	495.30	
			<i>For Class 55 Rating, Add</i>	1,100.89	
40 05 19 00-1451	EA		30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,175.98	907.08
			<i>For Class 52 Rating, Deduct</i>	-748.18	
			<i>For Class 54 Rating, Add</i>	510.12	
			<i>For Class 55 Rating, Add</i>	1,133.83	
40 05 19 00-1452	EA		30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,376.71	909.16
			<i>For Class 52 Rating, Deduct</i>	-769.91	
			<i>For Class 54 Rating, Add</i>	524.94	
			<i>For Class 55 Rating, Add</i>	1,166.77	
40 05 19 00-1453	EA		30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,577.46	911.23
			<i>For Class 52 Rating, Deduct</i>	-791.65	
			<i>For Class 54 Rating, Add</i>	539.76	
			<i>For Class 55 Rating, Add</i>	1,199.71	
40 05 19 00-1454	EA		30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,778.19	913.31
			<i>For Class 52 Rating, Deduct</i>	-813.38	
			<i>For Class 54 Rating, Add</i>	554.58	
			<i>For Class 55 Rating, Add</i>	1,232.65	
40 05 19 00-1455	EA		30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,978.93	915.37
			<i>For Class 52 Rating, Deduct</i>	-835.12	
			<i>For Class 54 Rating, Add</i>	569.40	
			<i>For Class 55 Rating, Add</i>	1,265.59	
40 05 19 00-1456	EA		30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,179.67	917.45
			<i>For Class 52 Rating, Deduct</i>	-856.86	
			<i>For Class 54 Rating, Add</i>	584.22	
			<i>For Class 55 Rating, Add</i>	1,298.53	
40 05 19 00-1457	EA		30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,380.41	919.51
			<i>For Class 52 Rating, Deduct</i>	-878.59	
			<i>For Class 54 Rating, Add</i>	599.04	
			<i>For Class 55 Rating, Add</i>	1,331.47	
40 05 19 00-1458	EA		30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,581.14	921.58
			<i>For Class 52 Rating, Deduct</i>	-900.33	
			<i>For Class 54 Rating, Add</i>	613.86	
			<i>For Class 55 Rating, Add</i>	1,364.41	
40 05 19 00-1459	EA		30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,781.88	923.66
			<i>For Class 52 Rating, Deduct</i>	-922.06	
			<i>For Class 54 Rating, Add</i>	628.68	
			<i>For Class 55 Rating, Add</i>	1,397.35	
40 05 19 00-1460	EA		30" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,982.62	925.73
			<i>For Class 52 Rating, Deduct</i>	-943.80	
			<i>For Class 54 Rating, Add</i>	643.50	
			<i>For Class 55 Rating, Add</i>	1,430.29	
40 05 19 00-1461	EA		30" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,183.35	927.80
			<i>For Class 52 Rating, Deduct</i>	-965.54	
			<i>For Class 54 Rating, Add</i>	658.32	
			<i>For Class 55 Rating, Add</i>	1,463.23	
40 05 19 00-1462	EA		30" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,384.10	929.87
			<i>For Class 52 Rating, Deduct</i>	-987.27	
			<i>For Class 54 Rating, Add</i>	673.14	
			<i>For Class 55 Rating, Add</i>	1,496.17	
40 05 19 00-1463			36" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
			<small>(40 05 19 00-1028)</small>		
40 05 19 00-1464	EA		36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,007.56	1,081.05
			<i>For Class 52 Rating, Deduct</i>	-260.66	
			<i>For Class 54 Rating, Add</i>	177.72	
			<i>For Class 55 Rating, Add</i>	395.01	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1465 EA 36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,279.50	1,083.13
<i>For Class 52 Rating, Deduct</i>	-290.22	
<i>For Class 54 Rating, Add</i>	197.88	
<i>For Class 55 Rating, Add</i>	439.82	
40 05 19 00-1466 EA 36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,551.43	1,085.20
<i>For Class 52 Rating, Deduct</i>	-319.79	
<i>For Class 54 Rating, Add</i>	218.04	
<i>For Class 55 Rating, Add</i>	484.63	
40 05 19 00-1467 EA 36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,823.37	1,087.26
<i>For Class 52 Rating, Deduct</i>	-349.36	
<i>For Class 54 Rating, Add</i>	238.20	
<i>For Class 55 Rating, Add</i>	529.44	
40 05 19 00-1468 EA 36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,095.31	1,089.34
<i>For Class 52 Rating, Deduct</i>	-378.93	
<i>For Class 54 Rating, Add</i>	258.36	
<i>For Class 55 Rating, Add</i>	574.25	
40 05 19 00-1469 EA 36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,367.24	1,091.40
<i>For Class 52 Rating, Deduct</i>	-408.50	
<i>For Class 54 Rating, Add</i>	278.52	
<i>For Class 55 Rating, Add</i>	619.06	
40 05 19 00-1470 EA 36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,639.19	1,093.48
<i>For Class 52 Rating, Deduct</i>	-438.06	
<i>For Class 54 Rating, Add</i>	298.68	
<i>For Class 55 Rating, Add</i>	663.87	
40 05 19 00-1471 EA 36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,911.12	1,095.55
<i>For Class 52 Rating, Deduct</i>	-467.63	
<i>For Class 54 Rating, Add</i>	318.84	
<i>For Class 55 Rating, Add</i>	708.68	
40 05 19 00-1472 EA 36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,183.06	1,097.63
<i>For Class 52 Rating, Deduct</i>	-497.20	
<i>For Class 54 Rating, Add</i>	339.00	
<i>For Class 55 Rating, Add</i>	753.48	
40 05 19 00-1473 EA 36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,455.00	1,099.68
<i>For Class 52 Rating, Deduct</i>	-526.77	
<i>For Class 54 Rating, Add</i>	359.16	
<i>For Class 55 Rating, Add</i>	798.29	
40 05 19 00-1474 EA 36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,726.94	1,101.76
<i>For Class 52 Rating, Deduct</i>	-556.34	
<i>For Class 54 Rating, Add</i>	379.32	
<i>For Class 55 Rating, Add</i>	843.10	
40 05 19 00-1475 EA 36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,998.87	1,103.83
<i>For Class 52 Rating, Deduct</i>	-585.90	
<i>For Class 54 Rating, Add</i>	399.48	
<i>For Class 55 Rating, Add</i>	887.91	
40 05 19 00-1476 EA 36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,270.81	1,105.90
<i>For Class 52 Rating, Deduct</i>	-615.47	
<i>For Class 54 Rating, Add</i>	419.64	
<i>For Class 55 Rating, Add</i>	932.72	
40 05 19 00-1477 EA 36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,542.75	1,107.97
<i>For Class 52 Rating, Deduct</i>	-645.04	
<i>For Class 54 Rating, Add</i>	439.80	
<i>For Class 55 Rating, Add</i>	977.53	
40 05 19 00-1478 EA 36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,814.68	1,110.05
<i>For Class 52 Rating, Deduct</i>	-674.61	
<i>For Class 54 Rating, Add</i>	459.96	
<i>For Class 55 Rating, Add</i>	1,022.34	
40 05 19 00-1479 EA 36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,086.63	1,112.12
<i>For Class 52 Rating, Deduct</i>	-704.18	
<i>For Class 54 Rating, Add</i>	480.12	
<i>For Class 55 Rating, Add</i>	1,067.15	
40 05 19 00-1480 EA 36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,358.56	1,114.18
<i>For Class 52 Rating, Deduct</i>	-733.74	
<i>For Class 54 Rating, Add</i>	500.28	
<i>For Class 55 Rating, Add</i>	1,111.96	
40 05 19 00-1481 EA 36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,630.50	1,116.25
<i>For Class 52 Rating, Deduct</i>	-763.31	
<i>For Class 54 Rating, Add</i>	520.44	
<i>For Class 55 Rating, Add</i>	1,156.76	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1482	EA		36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,902.44	1,118.33
			<i>For Class 52 Rating, Deduct</i>	-792.88	
			<i>For Class 54 Rating, Add</i>	540.60	
			<i>For Class 55 Rating, Add</i>	1,201.57	
40 05 19 00-1483	EA		36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,174.37	1,120.40
			<i>For Class 52 Rating, Deduct</i>	-822.45	
			<i>For Class 54 Rating, Add</i>	560.76	
			<i>For Class 55 Rating, Add</i>	1,246.38	
40 05 19 00-1484	EA		36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,446.31	1,122.47
			<i>For Class 52 Rating, Deduct</i>	-852.02	
			<i>For Class 54 Rating, Add</i>	580.92	
			<i>For Class 55 Rating, Add</i>	1,291.19	
40 05 19 00-1485	EA		36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,718.25	1,124.54
			<i>For Class 52 Rating, Deduct</i>	-881.58	
			<i>For Class 54 Rating, Add</i>	601.08	
			<i>For Class 55 Rating, Add</i>	1,336.00	
40 05 19 00-1486	EA		36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,990.19	1,126.62
			<i>For Class 52 Rating, Deduct</i>	-911.15	
			<i>For Class 54 Rating, Add</i>	621.24	
			<i>For Class 55 Rating, Add</i>	1,380.81	
40 05 19 00-1487	EA		36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,262.12	1,128.68
			<i>For Class 52 Rating, Deduct</i>	-940.72	
			<i>For Class 54 Rating, Add</i>	641.40	
			<i>For Class 55 Rating, Add</i>	1,425.62	
40 05 19 00-1488	EA		36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,534.07	1,130.75
			<i>For Class 52 Rating, Deduct</i>	-970.29	
			<i>For Class 54 Rating, Add</i>	661.56	
			<i>For Class 55 Rating, Add</i>	1,470.43	
40 05 19 00-1489	EA		36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,806.00	1,132.83
			<i>For Class 52 Rating, Deduct</i>	-999.86	
			<i>For Class 54 Rating, Add</i>	681.72	
			<i>For Class 55 Rating, Add</i>	1,515.24	
40 05 19 00-1490	EA		36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,077.94	1,134.90
			<i>For Class 52 Rating, Deduct</i>	-1,029.42	
			<i>For Class 54 Rating, Add</i>	701.88	
			<i>For Class 55 Rating, Add</i>	1,560.05	
40 05 19 00-1491	EA		36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,349.88	1,136.97
			<i>For Class 52 Rating, Deduct</i>	-1,058.99	
			<i>For Class 54 Rating, Add</i>	722.04	
			<i>For Class 55 Rating, Add</i>	1,604.85	
40 05 19 00-1492	EA		36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,621.81	1,139.04
			<i>For Class 52 Rating, Deduct</i>	-1,088.56	
			<i>For Class 54 Rating, Add</i>	742.20	
			<i>For Class 55 Rating, Add</i>	1,649.66	
40 05 19 00-1493	EA		36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,893.75	1,141.12
			<i>For Class 52 Rating, Deduct</i>	-1,118.13	
			<i>For Class 54 Rating, Add</i>	762.36	
			<i>For Class 55 Rating, Add</i>	1,694.47	
40 05 19 00-1494	EA		36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,165.69	1,143.17
			<i>For Class 52 Rating, Deduct</i>	-1,147.70	
			<i>For Class 54 Rating, Add</i>	782.52	
			<i>For Class 55 Rating, Add</i>	1,739.28	
40 05 19 00-1495	EA		36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,437.63	1,145.25
			<i>For Class 52 Rating, Deduct</i>	-1,177.26	
			<i>For Class 54 Rating, Add</i>	802.68	
			<i>For Class 55 Rating, Add</i>	1,784.09	
40 05 19 00-1496	EA		36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,709.57	1,147.32
			<i>For Class 52 Rating, Deduct</i>	-1,206.83	
			<i>For Class 54 Rating, Add</i>	822.84	
			<i>For Class 55 Rating, Add</i>	1,828.90	
40 05 19 00-1497	EA		36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,981.51	1,149.40
			<i>For Class 52 Rating, Deduct</i>	-1,236.40	
			<i>For Class 54 Rating, Add</i>	843.00	
			<i>For Class 55 Rating, Add</i>	1,873.71	
40 05 19 00-1498	EA		36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,253.44	1,151.46
			<i>For Class 52 Rating, Deduct</i>	-1,265.97	
			<i>For Class 54 Rating, Add</i>	863.16	
			<i>For Class 55 Rating, Add</i>	1,918.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1499 EA 36" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,525.39	1,153.54
<i>For Class 52 Rating, Deduct</i>	-1,295.54	
<i>For Class 54 Rating, Add</i>	883.32	
<i>For Class 55 Rating, Add</i>	1,963.33	
40 05 19 00-1500 EA 36" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,797.32	1,155.61
<i>For Class 52 Rating, Deduct</i>	-1,325.10	
<i>For Class 54 Rating, Add</i>	903.48	
<i>For Class 55 Rating, Add</i>	2,008.13	
40 05 19 00-1501 EA 36" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,069.25	1,157.67
<i>For Class 52 Rating, Deduct</i>	-1,354.67	
<i>For Class 54 Rating, Add</i>	923.64	
<i>For Class 55 Rating, Add</i>	2,052.94	
40 05 19 00-1502 42" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1503 EA 42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,241.50	1,362.71
<i>For Class 52 Rating, Deduct</i>	-349.45	
<i>For Class 54 Rating, Add</i>	238.26	
<i>For Class 55 Rating, Add</i>	529.57	
40 05 19 00-1504 EA 42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,646.24	1,364.78
<i>For Class 52 Rating, Deduct</i>	-393.62	
<i>For Class 54 Rating, Add</i>	268.38	
<i>For Class 55 Rating, Add</i>	596.52	
40 05 19 00-1505 EA 42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,046.18	1,366.84
<i>For Class 52 Rating, Deduct</i>	-437.27	
<i>For Class 54 Rating, Add</i>	298.14	
<i>For Class 55 Rating, Add</i>	662.67	
40 05 19 00-1506 EA 42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,450.12	1,368.92
<i>For Class 52 Rating, Deduct</i>	-481.36	
<i>For Class 54 Rating, Add</i>	328.20	
<i>For Class 55 Rating, Add</i>	729.48	
40 05 19 00-1507 EA 42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,850.05	1,370.99
<i>For Class 52 Rating, Deduct</i>	-525.01	
<i>For Class 54 Rating, Add</i>	357.96	
<i>For Class 55 Rating, Add</i>	795.63	
40 05 19 00-1508 EA 42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,254.79	1,373.06
<i>For Class 52 Rating, Deduct</i>	-569.18	
<i>For Class 54 Rating, Add</i>	388.08	
<i>For Class 55 Rating, Add</i>	862.57	
40 05 19 00-1509 EA 42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,653.93	1,375.13
<i>For Class 52 Rating, Deduct</i>	-612.74	
<i>For Class 54 Rating, Add</i>	417.78	
<i>For Class 55 Rating, Add</i>	928.59	
40 05 19 00-1510 EA 42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,058.66	1,377.21
<i>For Class 52 Rating, Deduct</i>	-656.92	
<i>For Class 54 Rating, Add</i>	447.90	
<i>For Class 55 Rating, Add</i>	995.53	
40 05 19 00-1511 EA 42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,458.61	1,379.28
<i>For Class 52 Rating, Deduct</i>	-700.57	
<i>For Class 54 Rating, Add</i>	477.66	
<i>For Class 55 Rating, Add</i>	1,061.68	
40 05 19 00-1512 EA 42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,862.54	1,381.34
<i>For Class 52 Rating, Deduct</i>	-744.66	
<i>For Class 54 Rating, Add</i>	507.72	
<i>For Class 55 Rating, Add</i>	1,128.49	
40 05 19 00-1513 EA 42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,262.48	1,383.41
<i>For Class 52 Rating, Deduct</i>	-788.30	
<i>For Class 54 Rating, Add</i>	537.48	
<i>For Class 55 Rating, Add</i>	1,194.64	
40 05 19 00-1514 EA 42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,666.42	1,385.49
<i>For Class 52 Rating, Deduct</i>	-832.39	
<i>For Class 54 Rating, Add</i>	567.54	
<i>For Class 55 Rating, Add</i>	1,261.45	
40 05 19 00-1515 EA 42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,066.36	1,387.55
<i>For Class 52 Rating, Deduct</i>	-876.04	
<i>For Class 54 Rating, Add</i>	597.30	
<i>For Class 55 Rating, Add</i>	1,327.60	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1516	EA		42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,467.10	1,389.63
			For Class 52 Rating, Deduct	-919.78	
			For Class 54 Rating, Add	627.12	
			For Class 55 Rating, Add	1,393.88	
40 05 19 00-1517	EA		42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,870.23	1,391.70
			For Class 52 Rating, Deduct	-963.78	
			For Class 54 Rating, Add	657.12	
			For Class 55 Rating, Add	1,460.56	
40 05 19 00-1518	EA		42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,270.17	1,393.78
			For Class 52 Rating, Deduct	-1,007.42	
			For Class 54 Rating, Add	686.88	
			For Class 55 Rating, Add	1,526.71	
40 05 19 00-1519	EA		42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,674.91	1,395.83
			For Class 52 Rating, Deduct	-1,051.60	
			For Class 54 Rating, Add	717.00	
			For Class 55 Rating, Add	1,593.65	
40 05 19 00-1520	EA		42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,074.85	1,397.91
			For Class 52 Rating, Deduct	-1,095.25	
			For Class 54 Rating, Add	746.76	
			For Class 55 Rating, Add	1,659.80	
40 05 19 00-1521	EA		42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,478.78	1,399.98
			For Class 52 Rating, Deduct	-1,139.34	
			For Class 54 Rating, Add	776.82	
			For Class 55 Rating, Add	1,726.61	
40 05 19 00-1522	EA		42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,878.73	1,402.05
			For Class 52 Rating, Deduct	-1,182.98	
			For Class 54 Rating, Add	806.58	
			For Class 55 Rating, Add	1,792.76	
40 05 19 00-1523	EA		42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,283.46	1,404.12
			For Class 52 Rating, Deduct	-1,227.16	
			For Class 54 Rating, Add	836.70	
			For Class 55 Rating, Add	1,859.71	
40 05 19 00-1524	EA		42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,683.40	1,406.20
			For Class 52 Rating, Deduct	-1,270.81	
			For Class 54 Rating, Add	866.46	
			For Class 55 Rating, Add	1,925.85	
40 05 19 00-1525	EA		42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,087.34	1,408.26
			For Class 52 Rating, Deduct	-1,314.90	
			For Class 54 Rating, Add	896.52	
			For Class 55 Rating, Add	1,992.67	
40 05 19 00-1526	EA		42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,487.27	1,410.33
			For Class 52 Rating, Deduct	-1,358.54	
			For Class 54 Rating, Add	926.28	
			For Class 55 Rating, Add	2,058.81	
40 05 19 00-1527	EA		42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,892.01	1,412.41
			For Class 52 Rating, Deduct	-1,402.72	
			For Class 54 Rating, Add	956.40	
			For Class 55 Rating, Add	2,125.76	
40 05 19 00-1528	EA		42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,291.95	1,414.48
			For Class 52 Rating, Deduct	-1,446.37	
			For Class 54 Rating, Add	986.16	
			For Class 55 Rating, Add	2,191.90	
40 05 19 00-1529	EA		42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,695.09	1,416.55
			For Class 52 Rating, Deduct	-1,490.37	
			For Class 54 Rating, Add	1,016.16	
			For Class 55 Rating, Add	2,258.58	
40 05 19 00-1530	EA		42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,095.82	1,418.62
			For Class 52 Rating, Deduct	-1,534.10	
			For Class 54 Rating, Add	1,045.98	
			For Class 55 Rating, Add	2,324.86	
40 05 19 00-1531	EA		42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,415.77	1,420.70
			For Class 52 Rating, Deduct	-1,568.95	
			For Class 54 Rating, Add	1,069.74	
			For Class 55 Rating, Add	2,377.68	
40 05 19 00-1532	EA		42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,899.70	1,422.76
			For Class 52 Rating, Deduct	-1,621.84	
			For Class 54 Rating, Add	1,105.80	
			For Class 55 Rating, Add	2,457.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1533 EA 42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,299.64	1,424.83
<i>For Class 52 Rating, Deduct</i>	-1,665.49	
<i>For Class 54 Rating, Add</i>	1,135.56	
<i>For Class 55 Rating, Add</i>	2,523.97	
40 05 19 00-1534 EA 42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,703.58	1,426.90
<i>For Class 52 Rating, Deduct</i>	-1,709.58	
<i>For Class 54 Rating, Add</i>	1,165.62	
<i>For Class 55 Rating, Add</i>	2,590.78	
40 05 19 00-1535 EA 42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,103.51	1,428.98
<i>For Class 52 Rating, Deduct</i>	-1,753.22	
<i>For Class 54 Rating, Add</i>	1,195.38	
<i>For Class 55 Rating, Add</i>	2,656.93	
40 05 19 00-1536 EA 42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,508.25	1,431.05
<i>For Class 52 Rating, Deduct</i>	-1,797.40	
<i>For Class 54 Rating, Add</i>	1,225.50	
<i>For Class 55 Rating, Add</i>	2,723.88	
40 05 19 00-1537 EA 42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,907.39	1,433.12
<i>For Class 52 Rating, Deduct</i>	-1,840.96	
<i>For Class 54 Rating, Add</i>	1,255.20	
<i>For Class 55 Rating, Add</i>	2,789.89	
40 05 19 00-1538 EA 42" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,312.13	1,435.19
<i>For Class 52 Rating, Deduct</i>	-1,885.14	
<i>For Class 54 Rating, Add</i>	1,285.32	
<i>For Class 55 Rating, Add</i>	2,856.84	
40 05 19 00-1539 EA 42" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,712.06	1,437.26
<i>For Class 52 Rating, Deduct</i>	-1,928.78	
<i>For Class 54 Rating, Add</i>	1,315.08	
<i>For Class 55 Rating, Add</i>	2,922.98	
40 05 19 00-1540 EA 42" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,116.01	1,439.32
<i>For Class 52 Rating, Deduct</i>	-1,972.87	
<i>For Class 54 Rating, Add</i>	1,345.14	
<i>For Class 55 Rating, Add</i>	2,989.80	
40 05 19 00-1541 48" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1542 EA 48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,726.20	1,712.70
<i>For Class 52 Rating, Deduct</i>	-454.43	
<i>For Class 54 Rating, Add</i>	309.84	
<i>For Class 55 Rating, Add</i>	688.67	
40 05 19 00-1543 EA 48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,314.14	1,714.77
<i>For Class 52 Rating, Deduct</i>	-518.76	
<i>For Class 54 Rating, Add</i>	353.70	
<i>For Class 55 Rating, Add</i>	786.16	
40 05 19 00-1544 EA 48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,901.28	1,716.84
<i>For Class 52 Rating, Deduct</i>	-583.00	
<i>For Class 54 Rating, Add</i>	397.50	
<i>For Class 55 Rating, Add</i>	883.51	
40 05 19 00-1545 EA 48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,493.21	1,718.91
<i>For Class 52 Rating, Deduct</i>	-647.77	
<i>For Class 54 Rating, Add</i>	441.66	
<i>For Class 55 Rating, Add</i>	981.66	
40 05 19 00-1546 EA 48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,081.15	1,720.98
<i>For Class 52 Rating, Deduct</i>	-712.10	
<i>For Class 54 Rating, Add</i>	485.52	
<i>For Class 55 Rating, Add</i>	1,079.15	
40 05 19 00-1547 EA 48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,669.09	1,723.05
<i>For Class 52 Rating, Deduct</i>	-776.42	
<i>For Class 54 Rating, Add</i>	529.38	
<i>For Class 55 Rating, Add</i>	1,176.64	
40 05 19 00-1548 EA 48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,260.23	1,725.13
<i>For Class 52 Rating, Deduct</i>	-841.10	
<i>For Class 54 Rating, Add</i>	573.48	
<i>For Class 55 Rating, Add</i>	1,274.65	
40 05 19 00-1549 EA 48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,848.96	1,727.20
<i>For Class 52 Rating, Deduct</i>	-905.52	
<i>For Class 54 Rating, Add</i>	617.40	
<i>For Class 55 Rating, Add</i>	1,372.27	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1550	EA		48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,436.11	1,729.27
			<i>For Class 52 Rating, Deduct</i>	-969.76	
			<i>For Class 54 Rating, Add</i>	661.20	
			<i>For Class 55 Rating, Add</i>	1,469.63	
40 05 19 00-1551	EA		48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,028.04	1,731.34
			<i>For Class 52 Rating, Deduct</i>	-1,034.53	
			<i>For Class 54 Rating, Add</i>	705.36	
			<i>For Class 55 Rating, Add</i>	1,567.78	
40 05 19 00-1552	EA		48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,615.98	1,733.41
			<i>For Class 52 Rating, Deduct</i>	-1,098.86	
			<i>For Class 54 Rating, Add</i>	749.22	
			<i>For Class 55 Rating, Add</i>	1,665.27	
40 05 19 00-1553	EA		48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,207.92	1,735.48
			<i>For Class 52 Rating, Deduct</i>	-1,163.62	
			<i>For Class 54 Rating, Add</i>	793.38	
			<i>For Class 55 Rating, Add</i>	1,763.42	
40 05 19 00-1554	EA		48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,795.05	1,737.55
			<i>For Class 52 Rating, Deduct</i>	-1,227.86	
			<i>For Class 54 Rating, Add</i>	837.18	
			<i>For Class 55 Rating, Add</i>	1,860.77	
40 05 19 00-1555	EA		48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,382.99	1,739.63
			<i>For Class 52 Rating, Deduct</i>	-1,292.19	
			<i>For Class 54 Rating, Add</i>	881.04	
			<i>For Class 55 Rating, Add</i>	1,958.26	
40 05 19 00-1556	EA		48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,974.93	1,741.70
			<i>For Class 52 Rating, Deduct</i>	-1,356.96	
			<i>For Class 54 Rating, Add</i>	925.20	
			<i>For Class 55 Rating, Add</i>	2,056.41	
40 05 19 00-1557	EA		48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,562.87	1,743.77
			<i>For Class 52 Rating, Deduct</i>	-1,421.29	
			<i>For Class 54 Rating, Add</i>	969.06	
			<i>For Class 55 Rating, Add</i>	2,153.90	
40 05 19 00-1558	EA		48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,150.00	1,745.83
			<i>For Class 52 Rating, Deduct</i>	-1,485.53	
			<i>For Class 54 Rating, Add</i>	1,012.86	
			<i>For Class 55 Rating, Add</i>	2,251.25	
40 05 19 00-1559	EA		48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,741.95	1,747.91
			<i>For Class 52 Rating, Deduct</i>	-1,550.30	
			<i>For Class 54 Rating, Add</i>	1,057.02	
			<i>For Class 55 Rating, Add</i>	2,349.40	
40 05 19 00-1560	EA		48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,329.88	1,749.97
			<i>For Class 52 Rating, Deduct</i>	-1,614.62	
			<i>For Class 54 Rating, Add</i>	1,100.88	
			<i>For Class 55 Rating, Add</i>	2,446.89	
40 05 19 00-1561	EA		48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,917.01	1,752.05
			<i>For Class 52 Rating, Deduct</i>	-1,678.86	
			<i>For Class 54 Rating, Add</i>	1,144.68	
			<i>For Class 55 Rating, Add</i>	2,544.24	
40 05 19 00-1562	EA		48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,508.96	1,754.12
			<i>For Class 52 Rating, Deduct</i>	-1,743.63	
			<i>For Class 54 Rating, Add</i>	1,188.84	
			<i>For Class 55 Rating, Add</i>	2,642.40	
40 05 19 00-1563	EA		48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,097.69	1,756.20
			<i>For Class 52 Rating, Deduct</i>	-1,808.05	
			<i>For Class 54 Rating, Add</i>	1,232.76	
			<i>For Class 55 Rating, Add</i>	2,740.01	
40 05 19 00-1564	EA		48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,684.83	1,758.25
			<i>For Class 52 Rating, Deduct</i>	-1,872.29	
			<i>For Class 54 Rating, Add</i>	1,276.56	
			<i>For Class 55 Rating, Add</i>	2,837.37	
40 05 19 00-1565	EA		48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,276.77	1,760.33
			<i>For Class 52 Rating, Deduct</i>	-1,937.06	
			<i>For Class 54 Rating, Add</i>	1,320.72	
			<i>For Class 55 Rating, Add</i>	2,935.52	
40 05 19 00-1566	EA		48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,864.71	1,762.40
			<i>For Class 52 Rating, Deduct</i>	-2,001.38	
			<i>For Class 54 Rating, Add</i>	1,364.58	
			<i>For Class 55 Rating, Add</i>	3,033.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1567 EA 48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,451.84	1,764.47
For Class 52 Rating, Deduct	-2,065.62	
For Class 54 Rating, Add	1,408.38	
For Class 55 Rating, Add	3,130.36	
40 05 19 00-1568 EA 48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,043.79	1,766.54
For Class 52 Rating, Deduct	-2,130.39	
For Class 54 Rating, Add	1,452.54	
For Class 55 Rating, Add	3,228.51	
40 05 19 00-1569 EA 48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,631.72	1,768.62
For Class 52 Rating, Deduct	-2,194.72	
For Class 54 Rating, Add	1,496.40	
For Class 55 Rating, Add	3,326.00	
40 05 19 00-1570 EA 48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,147.65	1,770.69
For Class 52 Rating, Deduct	-2,251.13	
For Class 54 Rating, Add	1,534.86	
For Class 55 Rating, Add	3,411.48	
40 05 19 00-1571 EA 48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,811.60	1,772.75
For Class 52 Rating, Deduct	-2,323.82	
For Class 54 Rating, Add	1,584.42	
For Class 55 Rating, Add	3,521.64	
40 05 19 00-1572 EA 48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,398.73	1,774.83
For Class 52 Rating, Deduct	-2,388.06	
For Class 54 Rating, Add	1,628.22	
For Class 55 Rating, Add	3,618.99	
40 05 19 00-1573 EA 48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,991.47	1,776.90
For Class 52 Rating, Deduct	-2,452.91	
For Class 54 Rating, Add	1,672.44	
For Class 55 Rating, Add	3,717.28	
40 05 19 00-1574 EA 48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,578.61	1,778.97
For Class 52 Rating, Deduct	-2,517.15	
For Class 54 Rating, Add	1,716.24	
For Class 55 Rating, Add	3,814.63	
40 05 19 00-1575 EA 48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,165.75	1,781.04
For Class 52 Rating, Deduct	-2,581.39	
For Class 54 Rating, Add	1,760.04	
For Class 55 Rating, Add	3,911.98	
40 05 19 00-1576 EA 48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,758.49	1,783.12
For Class 52 Rating, Deduct	-2,646.25	
For Class 54 Rating, Add	1,804.26	
For Class 55 Rating, Add	4,010.27	
40 05 19 00-1577 EA 48" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,345.63	1,785.19
For Class 52 Rating, Deduct	-2,710.49	
For Class 54 Rating, Add	1,848.06	
For Class 55 Rating, Add	4,107.62	
40 05 19 00-1578 EA 48" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,933.56	1,787.25
For Class 52 Rating, Deduct	-2,774.82	
For Class 54 Rating, Add	1,891.92	
For Class 55 Rating, Add	4,205.11	
40 05 19 00-1579 EA 48" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,525.50	1,789.32
For Class 52 Rating, Deduct	-2,839.58	
For Class 54 Rating, Add	1,936.08	
For Class 55 Rating, Add	4,303.26	
40 05 19 00-1580 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows		
<small>(40 05 19 00-0001)</small>		
40 05 19 00-1581 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	260.98	99.92
40 05 19 00-1582 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	363.19	127.78
40 05 19 00-1583 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	498.48	144.72
40 05 19 00-1584 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	721.20	183.48
40 05 19 00-1585 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	885.88	203.46
40 05 19 00-1586 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,094.89	221.02
40 05 19 00-1587 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,348.88	272.50
40 05 19 00-1588 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,761.05	327.00
40 05 19 00-1589 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	2,171.90	411.78
40 05 19 00-1590 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	3,258.47	466.27
40 05 19 00-1591 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	5,432.65	617.66
40 05 19 00-1592 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	7,650.91	699.41
40 05 19 00-1593 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	12,707.90	799.33
40 05 19 00-1594 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	16,896.75	980.99

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1595			Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1596	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	248.98	99.92
40 05 19 00-1597	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	343.99	127.78
40 05 19 00-1598	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	449.68	144.72
40 05 19 00-1599	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	650.80	183.48
40 05 19 00-1600	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	796.28	203.46
40 05 19 00-1601	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	912.49	221.02
40 05 19 00-1602	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,147.28	272.50
40 05 19 00-1603	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,489.85	327.00
40 05 19 00-1604	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,924.70	411.78
40 05 19 00-1605	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,512.87	466.27
40 05 19 00-1606	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	4,887.05	617.66
40 05 19 00-1607	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	7,252.51	699.41
40 05 19 00-1608	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	10,995.10	799.33
40 05 19 00-1609	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	14,959.15	980.99
40 05 19 00-1610			Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1611	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	248.18	99.92
40 05 19 00-1612	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	337.59	127.78
40 05 19 00-1613	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	444.08	144.72
40 05 19 00-1614	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	634.80	183.48
40 05 19 00-1615	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	831.48	203.46
40 05 19 00-1616	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,023.69	221.02
40 05 19 00-1617	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,172.08	272.50
40 05 19 00-1618	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,520.25	327.00
40 05 19 00-1619	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,056.70	411.78
40 05 19 00-1620	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,813.67	466.27
40 05 19 00-1621	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	4,940.65	617.66
40 05 19 00-1622	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	7,375.71	699.41
40 05 19 00-1623	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	11,240.70	799.33
40 05 19 00-1624	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	15,279.15	980.99
40 05 19 00-1625			Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1626	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	268.18	99.92
40 05 19 00-1627	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	375.19	127.78
40 05 19 00-1628	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	460.08	144.72
40 05 19 00-1629	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	691.60	183.48
40 05 19 00-1630	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	936.28	203.46
40 05 19 00-1631	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,050.89	221.02
40 05 19 00-1632	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,285.68	272.50
40 05 19 00-1633	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,520.25	327.00
40 05 19 00-1634	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,056.70	411.78
40 05 19 00-1635	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,921.67	466.27
40 05 19 00-1636	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	4,994.25	617.66
40 05 19 00-1637	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	7,428.51	699.41
40 05 19 00-1638	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	11,296.70	799.33
40 05 19 00-1639	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	15,391.95	980.99
40 05 19 00-1640			Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1641	EA		6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	341.29	113.85
40 05 19 00-1642	EA		8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	415.73	122.32
40 05 19 00-1643	EA		8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	468.04	136.25
40 05 19 00-1644	EA		10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	613.09	141.70
40 05 19 00-1645	EA		10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	649.40	155.63
40 05 19 00-1646	EA		10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	707.84	164.10
40 05 19 00-1647	EA		12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	659.09	151.99
40 05 19 00-1648	EA		12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	740.99	165.92
40 05 19 00-1649	EA		12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	846.64	174.40
40 05 19 00-1650	EA		12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	904.79	193.77
40 05 19 00-1651	EA		14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	846.64	174.40
40 05 19 00-1652	EA		14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	934.69	182.87
40 05 19 00-1653	EA		14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,040.85	202.26
40 05 19 00-1654	EA		14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,148.45	212.55
40 05 19 00-1655	EA		16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	976.03	200.14
40 05 19 00-1656	EA		16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,050.48	208.61
40 05 19 00-1657	EA		16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,202.24	227.99
40 05 19 00-1658	EA		16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,308.57	237.98
40 05 19 00-1659	EA		16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,398.68	246.76
40 05 19 00-1660	EA		18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,139.72	227.39
40 05 19 00-1661	EA		18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,351.77	235.86
40 05 19 00-1662	EA		18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,396.32	255.23
40 05 19 00-1663	EA		18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,473.07	265.23



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1664 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,593.57	274.01
40 05 19 00-1665 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,738.16	299.75
40 05 19 00-1666 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,463.15	269.78
40 05 19 00-1667 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,558.39	278.25
40 05 19 00-1668 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,916.55	297.63
40 05 19 00-1669 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,988.49	307.62
40 05 19 00-1670 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,185.79	316.40
40 05 19 00-1671 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,148.78	342.14
40 05 19 00-1672 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,289.28	369.39
40 05 19 00-1673 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,030.83	297.02
40 05 19 00-1674 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,126.88	305.50
40 05 19 00-1675 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,287.43	324.87
40 05 19 00-1676 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,401.78	334.87
40 05 19 00-1677 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,612.68	343.65
40 05 19 00-1678 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,815.68	369.39
40 05 19 00-1679 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,889.76	396.63
40 05 19 00-1680 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,031.11	392.25
40 05 19 00-1681 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,585.27	410.56
40 05 19 00-1682 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,810.56	419.34
40 05 19 00-1683 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,286.36	445.08
40 05 19 00-1684 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,967.65	472.33
40 05 19 00-1685 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,733.48	514.72
40 05 19 00-1686 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,054.76	541.97
40 05 19 00-1687 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,900.79	451.44
40 05 19 00-1688 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,306.10	460.22
40 05 19 00-1689 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,165.09	485.95
40 05 19 00-1690 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,703.98	513.20
40 05 19 00-1691 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,434.60	555.59
40 05 19 00-1692 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,007.90	582.84
40 05 19 00-1693 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,488.98	658.54
40 05 19 00-1694 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,573.80	510.17
40 05 19 00-1695 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,266.39	535.91
40 05 19 00-1696 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,734.07	563.16
40 05 19 00-1697 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,595.90	605.55
40 05 19 00-1698 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,410.79	632.80
40 05 19 00-1699 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,898.27	708.50
40 05 19 00-1700 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,893.01	749.37
40 05 19 00-1701 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,301.48	731.21
40 05 19 00-1702 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,469.76	806.89
40 05 19 00-1703 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,899.70	847.77
40 05 19 00-1704 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	18,990.60	897.73
40 05 19 00-1705 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1706 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	304.98	99.92
40 05 19 00-1707 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	461.59	127.78
40 05 19 00-1708 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	663.28	144.72
40 05 19 00-1709 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	935.60	183.48
40 05 19 00-1710 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,302.68	203.46
40 05 19 00-1711 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,513.29	221.02
40 05 19 00-1712 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,958.48	272.50
40 05 19 00-1713 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,422.65	327.00
40 05 19 00-1714 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	3,291.90	411.78
40 05 19 00-1715 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	4,789.67	466.27
40 05 19 00-1716 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	8,363.05	617.66
40 05 19 00-1717 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	12,650.11	699.41
40 05 19 00-1718 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	19,519.90	799.33
40 05 19 00-1719 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base (40 05 19 00-0001)		
40 05 19 00-1720 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	320.18	99.92
40 05 19 00-1721 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	431.99	127.78
40 05 19 00-1722 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	684.08	144.72
40 05 19 00-1723 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	920.40	183.48
40 05 19 00-1724 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,221.88	203.46
40 05 19 00-1725 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,436.49	221.02
40 05 19 00-1726 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,774.48	272.50
40 05 19 00-1727 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,224.25	327.00
40 05 19 00-1728 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,928.70	411.78
40 05 19 00-1729 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,098.47	466.27
40 05 19 00-1730 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	6,669.45	617.66
40 05 19 00-1731 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	9,474.91	699.41
40 05 19 00-1732 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	17,430.30	799.33
40 05 19 00-1733 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	18,835.15	980.99
40 05 19 00-1734 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees (40 05 19 00-0001)		
40 05 19 00-1735 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	443.14	160.47

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-1736	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	548.70	197.40
40 05 19 00-1737	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	750.77	220.42
40 05 19 00-1738	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	1,067.58	286.43
40 05 19 00-1739	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	1,395.03	312.46
40 05 19 00-1740	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	1,839.61	336.08
40 05 19 00-1741	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	2,099.04	423.88
40 05 19 00-1742	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	2,548.40	484.44
40 05 19 00-1743	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	3,214.68	611.61
40 05 19 00-1744	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	4,656.61	675.19
40 05 19 00-1745	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	7,850.55	932.55
40 05 19 00-1746	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	11,220.99	1,068.80
40 05 19 00-1747	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	22,870.90	1,235.32

40 05 19 00-1748 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tees

(40 05 19 00-0001)

40 05 19 00-1749	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	547.58	179.24
40 05 19 00-1750	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	664.29	182.87
40 05 19 00-1751	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	671.95	205.89
40 05 19 00-1752	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	862.45	202.26
40 05 19 00-1753	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	860.50	225.26
40 05 19 00-1754	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	908.13	239.80
40 05 19 00-1755	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,078.05	212.55
40 05 19 00-1756	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,083.30	235.56
40 05 19 00-1757	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,144.53	250.10
40 05 19 00-1758	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,363.18	296.72
40 05 19 00-1759	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,540.49	221.02
40 05 19 00-1760	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,516.96	244.04
40 05 19 00-1761	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,585.37	258.57
40 05 19 00-1762	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,685.62	305.19
40 05 19 00-1763	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,786.74	321.24
40 05 19 00-1764	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,861.08	246.76
40 05 19 00-1765	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,729.55	269.78
40 05 19 00-1766	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,708.36	284.31
40 05 19 00-1767	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,003.81	330.93
40 05 19 00-1768	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,953.73	346.98
40 05 19 00-1769	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,169.81	361.82
40 05 19 00-1770	EA	18" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,266.37	274.01
40 05 19 00-1771	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,739.63	297.02
40 05 19 00-1772	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,079.26	311.56
40 05 19 00-1773	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,102.70	358.18
40 05 19 00-1774	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,283.01	374.23
40 05 19 00-1775	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,485.49	389.07
40 05 19 00-1776	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,671.54	451.13
40 05 19 00-1777	EA	20" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,908.19	316.40
40 05 19 00-1778	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,523.86	339.41
40 05 19 00-1779	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,578.68	353.95
40 05 19 00-1780	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,698.92	400.57
40 05 19 00-1781	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,804.84	416.62
40 05 19 00-1782	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,844.12	431.46
40 05 19 00-1783	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,415.76	493.52
40 05 19 00-1784	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,499.03	526.83
40 05 19 00-1785	EA	24" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,303.88	343.65
40 05 19 00-1786	EA	24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,877.94	366.66
40 05 19 00-1787	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,007.97	381.19
40 05 19 00-1788	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,138.62	427.82
40 05 19 00-1789	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,505.33	443.87
40 05 19 00-1790	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,593.41	458.71
40 05 19 00-1791	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,730.65	520.77
40 05 19 00-1792	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,857.11	554.07
40 05 19 00-1793	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,030.69	592.08
40 05 19 00-1794	EA	30" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,804.63	442.35
40 05 19 00-1795	EA	30" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,843.45	456.89
40 05 19 00-1796	EA	30" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,020.50	503.51
40 05 19 00-1797	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,044.81	519.57
40 05 19 00-1798	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,067.29	534.39
40 05 19 00-1799	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,214.14	596.47
40 05 19 00-1800	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,299.80	629.77
40 05 19 00-1801	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,515.45	714.55
40 05 19 00-1802	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,282.50	750.88
40 05 19 00-1803	EA	36" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,015.25	633.11
40 05 19 00-1804	EA	36" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,563.08	644.61
40 05 19 00-1805	EA	36" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,630.68	677.61
40 05 19 00-1806	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,703.20	690.63
40 05 19 00-1807	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,738.70	702.44
40 05 19 00-1808	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,840.42	746.34
40 05 19 00-1809	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,903.89	776.62
40 05 19 00-1810	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,070.63	840.20
40 05 19 00-1811	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,278.00	871.99
40 05 19 00-1812	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,100.17	1,000.67
40 05 19 00-1813	EA	42" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,129.88	547.72
40 05 19 00-1814	EA	42" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,811.73	594.34



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1815 EA 42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,836.04	610.40
40 05 19 00-1816 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,876.92	625.23
40 05 19 00-1817 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	13,008.56	687.30
40 05 19 00-1818 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	13,153.42	720.60
40 05 19 00-1819 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	13,281.87	805.38
40 05 19 00-1820 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	13,487.33	841.72
40 05 19 00-1821 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,073.77	1,023.38
40 05 19 00-1822 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	21,866.28	1,118.75
40 05 19 00-1823 EA 48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,313.14	708.79
40 05 19 00-1824 EA 48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,335.61	723.63
40 05 19 00-1825 EA 48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,485.65	785.70
40 05 19 00-1826 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,536.12	819.01
40 05 19 00-1827 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,738.97	903.78
40 05 19 00-1828 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,926.02	940.11
40 05 19 00-1829 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	18,465.26	1,121.78
40 05 19 00-1830 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees With		
Base <small>(40 05 19 00-0001)</small>		
40 05 19 00-1831 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	473.54	160.47
40 05 19 00-1832 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	635.90	197.40
40 05 19 00-1833 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	901.17	220.42
40 05 19 00-1834 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,351.58	286.43
40 05 19 00-1835 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,788.63	312.46
40 05 19 00-1836 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,993.21	336.08
40 05 19 00-1837 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	2,476.64	423.88
40 05 19 00-1838 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	2,997.20	484.44
40 05 19 00-1839 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	3,989.08	611.61
40 05 19 00-1840 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	5,666.21	675.19
40 05 19 00-1841 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	9,422.55	932.55
40 05 19 00-1842 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	13,332.19	1,068.80
40 05 19 00-1843 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wyes <small>(40 05 19 00-0001)</small>		
40 05 19 00-1844 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	396.74	160.47
40 05 19 00-1845 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	544.70	197.40
40 05 19 00-1846 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	762.77	220.42
40 05 19 00-1847 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,001.18	286.43
40 05 19 00-1848 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,391.03	312.46
40 05 19 00-1849 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,778.81	336.08
40 05 19 00-1850 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Crosses <small>(40 05 19 00-0001)</small>		
40 05 19 00-1851 EA 4" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	545.29	221.02
40 05 19 00-1852 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	699.67	239.49
40 05 19 00-1853 EA 6" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	746.21	267.04
40 05 19 00-1854 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	843.24	243.43
40 05 19 00-1855 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	923.07	275.53
40 05 19 00-1856 EA 8" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	959.86	296.12
40 05 19 00-1857 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,071.00	262.81
40 05 19 00-1858 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,181.22	294.90
40 05 19 00-1859 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,289.22	315.49
40 05 19 00-1860 EA 10" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,599.55	389.36
40 05 19 00-1861 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,361.33	272.80
40 05 19 00-1862 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,440.36	304.90
40 05 19 00-1863 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,549.15	325.49
40 05 19 00-1864 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,874.69	399.36
40 05 19 00-1865 EA 12" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,782.58	421.47
40 05 19 00-1866 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,698.46	313.68
40 05 19 00-1867 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,806.46	334.27
40 05 19 00-1868 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,025.59	408.14
40 05 19 00-1869 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,197.48	430.25
40 05 19 00-1870 EA 14" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,305.14	451.13
40 05 19 00-1871 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,013.46	339.41
40 05 19 00-1872 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,135.85	359.99
40 05 19 00-1873 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,354.99	433.88
40 05 19 00-1874 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,542.07	455.97
40 05 19 00-1875 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,484.93	476.87
40 05 19 00-1876 EA 16" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,906.02	575.27
40 05 19 00-1877 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,101.14	366.66
40 05 19 00-1878 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,222.74	387.25
40 05 19 00-1879 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,411.47	461.12
40 05 19 00-1880 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,597.77	483.23
40 05 19 00-1881 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,965.41	504.12
40 05 19 00-1882 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,252.91	602.52
40 05 19 00-1883 EA 18" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,404.55	641.89
40 05 19 00-1884 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,711.77	409.04
40 05 19 00-1885 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,841.36	429.63
40 05 19 00-1886 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,018.90	503.51
40 05 19 00-1887 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,217.19	525.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1888 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,281.64	546.51
40 05 19 00-1889 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,990.73	644.91
40 05 19 00-1890 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,148.78	684.27
40 05 19 00-1891 EA 20" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,572.64	811.44
40 05 19 00-1892 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,543.46	436.30
40 05 19 00-1893 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,639.45	456.89
40 05 19 00-1894 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,866.59	530.76
40 05 19 00-1895 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,999.28	552.87
40 05 19 00-1896 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,080.53	573.76
40 05 19 00-1897 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,344.83	672.16
40 05 19 00-1898 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,574.06	711.52
40 05 19 00-1899 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,908.66	791.91
40 05 19 00-1900 EA 24" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,509.95	884.10
40 05 19 00-1901 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,474.76	628.56
40 05 19 00-1902 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,524.01	649.45
40 05 19 00-1903 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,796.32	747.86
40 05 19 00-1904 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,891.15	787.21
40 05 19 00-1905 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,278.23	914.38
40 05 19 00-1906 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,375.83	959.79
40 05 19 00-1907 EA 30" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	10,710.05	1,247.44
40 05 19 00-1908 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,113.96	799.63
40 05 19 00-1909 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,141.03	817.49
40 05 19 00-1910 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,369.80	897.73
40 05 19 00-1911 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,459.24	934.06
40 05 19 00-1912 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,779.00	1,040.03
40 05 19 00-1913 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	10,123.34	1,080.91
40 05 19 00-1914 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,635.67	1,315.56
40 05 19 00-1915 EA 30" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	14,950.27	1,438.18
40 05 19 00-1916 EA 42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,283.59	719.40
40 05 19 00-1917 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,315.25	740.28
40 05 19 00-1918 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,577.14	838.69
40 05 19 00-1919 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,655.17	878.05
40 05 19 00-1920 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	14,017.45	1,005.21
40 05 19 00-1921 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	14,368.67	1,050.62
40 05 19 00-1922 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	18,491.67	1,338.27
40 05 19 00-1923 EA 42" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	25,417.95	1,488.14
40 05 19 00-1924 EA 48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	19,053.10	1,671.32
40 05 19 00-1925 EA 48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	17,772.34	838.69
40 05 19 00-1926 EA 48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	18,035.03	937.08
40 05 19 00-1927 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	18,113.07	976.45
40 05 19 00-1928 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	18,456.14	1,103.61
40 05 19 00-1929 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	18,807.36	1,149.03
40 05 19 00-1930 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	19,751.16	1,436.66

40 05 19 00-1931 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducers (40 05 19 00-0001)

40 05 19 00-1932 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	289.29	113.85
40 05 19 00-1933 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	360.53	122.32
40 05 19 00-1934 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	397.64	136.25
40 05 19 00-1935 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	476.29	141.70
40 05 19 00-1936 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	485.40	155.63
40 05 19 00-1937 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	560.64	164.10
40 05 19 00-1938 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	597.49	151.99
40 05 19 00-1939 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	620.99	165.92
40 05 19 00-1940 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	677.84	174.40
40 05 19 00-1941 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	761.59	193.77
40 05 19 00-1942 EA 14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	907.39	165.92
40 05 19 00-1943 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	738.64	174.40
40 05 19 00-1944 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	813.09	182.87
40 05 19 00-1945 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	894.45	202.26
40 05 19 00-1946 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	875.65	212.55
40 05 19 00-1947 EA 16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,070.13	186.21
40 05 19 00-1948 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	885.63	200.14
40 05 19 00-1949 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	844.08	208.61
40 05 19 00-1950 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	939.04	227.99
40 05 19 00-1951 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,146.97	237.98
40 05 19 00-1952 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,230.68	246.76
40 05 19 00-1953 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,350.92	227.39
40 05 19 00-1954 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,091.77	235.86
40 05 19 00-1955 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,197.92	255.23
40 05 19 00-1956 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,194.67	265.23
40 05 19 00-1957 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,363.17	274.01
40 05 19 00-1958 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,370.96	299.75
40 05 19 00-1959 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,396.75	269.78
40 05 19 00-1960 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,360.79	278.25
40 05 19 00-1961 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,472.55	297.63
40 05 19 00-1962 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,442.09	307.62
40 05 19 00-1963 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,649.79	316.40
40 05 19 00-1964 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,565.58	342.14
40 05 19 00-1965 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,910.88	369.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1966 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,813.28	305.50
40 05 19 00-1967 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,040.23	324.87
40 05 19 00-1968 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,188.98	334.87
40 05 19 00-1969 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,247.08	343.65
40 05 19 00-1970 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,013.28	369.39
40 05 19 00-1971 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,412.16	396.63
40 05 19 00-1972 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,537.51	392.25
40 05 19 00-1973 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,426.36	445.08
40 05 19 00-1974 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,574.05	472.33
40 05 19 00-1975 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,850.28	514.72
40 05 19 00-1976 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,244.36	541.97
40 05 19 00-1977 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,635.49	485.95
40 05 19 00-1978 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,870.38	513.20
40 05 19 00-1979 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,181.80	555.59
40 05 19 00-1980 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,629.50	582.84
40 05 19 00-1981 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,484.98	658.54
40 05 19 00-1982 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,808.39	632.80
40 05 19 00-1983 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,825.47	708.50
40 05 19 00-1984 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	9,960.21	749.37
40 05 19 00-1985 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	9,895.08	731.21
40 05 19 00-1986 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	11,100.96	806.89
40 05 19 00-1987 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	12,386.10	847.77
40 05 19 00-1988 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	13,854.60	897.73
40 05 19 00-1989 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-0001)		
40 05 19 00-1990 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	310.89	113.85
40 05 19 00-1991 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	385.33	122.32
40 05 19 00-1992 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	436.84	136.25
40 05 19 00-1993 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	476.29	141.70
40 05 19 00-1994 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	511.80	155.63
40 05 19 00-1995 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	585.44	164.10
40 05 19 00-1996 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	597.49	151.99
40 05 19 00-1997 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	649.79	165.92
40 05 19 00-1998 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	708.24	174.40
40 05 19 00-1999 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	814.39	193.77
40 05 19 00-2000 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	738.64	174.40
40 05 19 00-2001 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	797.89	182.87
40 05 19 00-2002 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	888.85	202.26
40 05 19 00-2003 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,010.85	212.55
40 05 19 00-2004 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	885.63	200.14
40 05 19 00-2005 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	958.48	208.61
40 05 19 00-2006 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,064.64	227.99
40 05 19 00-2007 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,171.77	237.98
40 05 19 00-2008 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,230.68	246.76
40 05 19 00-2009 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,091.77	235.86
40 05 19 00-2010 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,197.92	255.23
40 05 19 00-2011 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,305.07	265.23
40 05 19 00-2012 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,363.17	274.01
40 05 19 00-2013 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,494.16	299.75
40 05 19 00-2014 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,567.95	269.78
40 05 19 00-2015 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,443.19	278.25
40 05 19 00-2016 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,472.55	297.63
40 05 19 00-2017 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,602.89	307.62
40 05 19 00-2018 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,649.79	316.40
40 05 19 00-2019 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,802.38	342.14
40 05 19 00-2020 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,910.08	369.39
40 05 19 00-2021 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,978.08	305.50
40 05 19 00-2022 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,040.23	324.87
40 05 19 00-2023 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,088.18	334.87
40 05 19 00-2024 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,134.28	343.65
40 05 19 00-2025 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,289.28	369.39
40 05 19 00-2026 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,412.16	396.63
40 05 19 00-2027 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,537.51	392.25
40 05 19 00-2028 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,058.56	419.34
40 05 19 00-2029 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,973.56	445.08
40 05 19 00-2030 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,591.65	472.33
40 05 19 00-2031 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,850.28	514.72
40 05 19 00-2032 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,244.36	541.97
40 05 19 00-2033 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,670.69	485.95
40 05 19 00-2034 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,870.38	513.20
40 05 19 00-2035 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,164.20	555.59
40 05 19 00-2036 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,610.30	582.84
40 05 19 00-2037 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,467.38	658.54
40 05 19 00-2038 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,808.39	632.80
40 05 19 00-2039 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,665.47	708.50
40 05 19 00-2040 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	9,960.21	749.37
40 05 19 00-2041 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	11,100.96	806.89
40 05 19 00-2042 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,386.10	847.77
40 05 19 00-2043 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	13,854.60	897.73

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2044			Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flanges ⁽⁴⁰⁾ <small>05 19 00-0001</small>		
40 05 19 00-2045	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	110.04	39.36
40 05 19 00-2046	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	164.88	58.14
40 05 19 00-2047	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	233.39	69.04
40 05 19 00-2048	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	315.62	80.54
40 05 19 00-2049	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	403.93	94.47
40 05 19 00-2050	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	526.96	105.97
40 05 19 00-2051	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	627.50	121.11
40 05 19 00-2052	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	852.10	169.55
40 05 19 00-2053	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,126.73	211.95
40 05 19 00-2054	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,588.33	257.36
40 05 19 00-2055	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,215.76	299.75
40 05 19 00-2056	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	3,880.83	330.02
40 05 19 00-2057	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	5,433.70	363.33
40 05 19 00-2058	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	7,154.51	408.75
40 05 19 00-2059			Ductile Iron Bolt Packs ^(40 05 19) Note: Labor installation is included with pipe fittings or valves.		
40 05 19 00-2060	EA		4" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	32.88	
			Note: Includes eight (8) 5/8" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	9.21	
			For Hot Dip Galvanized, Add	13.15	
40 05 19 00-2061	EA		6" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	50.74	
			Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	14.21	
			For Hot Dip Galvanized, Add	20.30	
40 05 19 00-2062	EA		8" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	55.10	
			Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	15.43	
			For Hot Dip Galvanized, Add	22.04	
40 05 19 00-2063	EA		10" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	123.76	
			Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	34.65	
			For Hot Dip Galvanized, Add	49.50	
40 05 19 00-2064	EA		12" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	124.85	
			Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	34.96	
			For Hot Dip Galvanized, Add	49.94	
40 05 19 00-2065	EA		14" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	139.87	
			Note: Includes twelve (12) 1" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	39.16	
			For Hot Dip Galvanized, Add	55.95	
40 05 19 00-2066	EA		16" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	235.15	
			Note: Includes sixteen (16) 1" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	65.84	
			For Hot Dip Galvanized, Add	94.06	
40 05 19 00-2067	EA		18" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	341.61	
			Note: Includes sixteen (16) 1-1/8" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	95.65	
			For Hot Dip Galvanized, Add	136.64	
40 05 19 00-2068	EA		20" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	431.32	
			Note: Includes twenty (20) 1-1/8" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	120.77	
			For Hot Dip Galvanized, Add	172.53	
40 05 19 00-2069	EA		24" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	617.14	
			Note: Includes twenty (20) 1-1/4" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	172.80	
			For Hot Dip Galvanized, Add	246.86	
40 05 19 00-2070	EA		30" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	975.17	
			Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	273.05	
			For Hot Dip Galvanized, Add	390.07	
40 05 19 00-2071	EA		36" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,391.11	
			Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	389.51	
			For Hot Dip Galvanized, Add	556.44	
40 05 19 00-2072	EA		42" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,789.62	
			Note: Includes thirty-six (36) 1-1/2" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	501.09	
			For Hot Dip Galvanized, Add	715.85	
40 05 19 00-2073	EA		48" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	2,187.31	
			Note: Includes forty-four (44) 1-1/2" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	612.45	
			For Hot Dip Galvanized, Add	874.92	
40 05 19 00-2074			Full Face Flange Gaskets, ANSI/AWWA C115/A21.15 ^(40 05 19) Note: Labor installation is included with pipe fittings or valves.		
40 05 19 00-2075			Full Face Flange Styrene Butadiene (SBR) Gaskets ^(40 05 19 00-2074)		
40 05 19 00-2076	EA		4" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	6.15	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2077	EA			6" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	7.82	
40 05 19 00-2078	EA			8" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	10.62	
40 05 19 00-2079	EA			10" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	12.29	
40 05 19 00-2080	EA			12" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	13.41	
40 05 19 00-2081	EA			14" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	22.35	
40 05 19 00-2082	EA			16" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	27.38	
40 05 19 00-2083	EA			18" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	29.06	
40 05 19 00-2084	EA			20" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	44.70	
40 05 19 00-2085	EA			24" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	48.05	
40 05 19 00-2086	EA			30" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	62.02	
40 05 19 00-2087	EA			36" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	70.96	
40 05 19 00-2088	EA			42" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	75.99	
40 05 19 00-2089	EA			48" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	83.25	
40 05 19 00-2090				Full Face Flange Nitrile Buna-N (NBR) Gaskets (40 05 19 00-2074)		
				Note: (Acrylonitrile Butadiene)		
40 05 19 00-2091	EA			4" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	19.00	
40 05 19 00-2092	EA			6" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	26.82	
40 05 19 00-2093	EA			8" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	41.35	
40 05 19 00-2094	EA			10" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	45.26	
40 05 19 00-2095	EA			12" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	48.61	
40 05 19 00-2096	EA			14" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	91.64	
40 05 19 00-2097	EA			16" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	112.87	
40 05 19 00-2098	EA			18" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	113.43	
40 05 19 00-2099	EA			20" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	117.90	
40 05 19 00-2100	EA			24" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	124.60	
40 05 19 00-2101	EA			30" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	138.01	
40 05 19 00-2102	EA			36" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	151.98	
40 05 19 00-2103	EA			42" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	216.24	
40 05 19 00-2104	EA			48" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	236.35	
40 05 19 00-2105				Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gaskets (40 05 19 00-2074)		
40 05 19 00-2106	EA			4" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	16.76	
40 05 19 00-2107	EA			6" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	21.79	
40 05 19 00-2108	EA			8" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	29.61	
40 05 19 00-2109	EA			10" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	34.64	
40 05 19 00-2110	EA			12" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	38.55	
40 05 19 00-2111	EA			14" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	63.70	
40 05 19 00-2112	EA			16" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	76.55	
40 05 19 00-2113	EA			18" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	77.11	
40 05 19 00-2114	EA			20" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	78.78	
40 05 19 00-2115	EA			24" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	91.64	
40 05 19 00-2116	EA			30" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	112.31	
40 05 19 00-2117	EA			36" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	127.95	
40 05 19 00-2118	EA			42" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	183.27	
40 05 19 00-2119	EA			48" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	202.27	
40 05 19 00-2120				Full Face Flange Neoprene Gaskets (40 05 19 00-2074)		
				Note: (Polychloroprene)		
40 05 19 00-2121	EA			4" Full Face Flange Neoprene Gasket, 1/8" Thick.....	19.56	
40 05 19 00-2122	EA			6" Full Face Flange Neoprene Gasket, 1/8" Thick.....	27.38	
40 05 19 00-2123	EA			8" Full Face Flange Neoprene Gasket, 1/8" Thick.....	41.91	
40 05 19 00-2124	EA			10" Full Face Flange Neoprene Gasket, 1/8" Thick.....	45.26	
40 05 19 00-2125	EA			12" Full Face Flange Neoprene Gasket, 1/8" Thick.....	48.61	
40 05 19 00-2126	EA			14" Full Face Flange Neoprene Gasket, 1/8" Thick.....	64.82	
40 05 19 00-2127	EA			16" Full Face Flange Neoprene Gasket, 1/8" Thick.....	113.98	
40 05 19 00-2128	EA			18" Full Face Flange Neoprene Gasket, 1/8" Thick.....	114.54	
40 05 19 00-2129	EA			20" Full Face Flange Neoprene Gasket, 1/8" Thick.....	121.25	
40 05 19 00-2130	EA			24" Full Face Flange Neoprene Gasket, 1/8" Thick.....	122.92	
40 05 19 00-2131	EA			30" Full Face Flange Neoprene Gasket, 1/8" Thick.....	133.54	
40 05 19 00-2132	EA			36" Full Face Flange Neoprene Gasket, 1/8" Thick.....	150.30	
40 05 19 00-2133	EA			42" Full Face Flange Neoprene Gasket, 1/8" Thick.....	217.91	
40 05 19 00-2134	EA			48" Full Face Flange Neoprene Gasket, 1/8" Thick.....	238.59	
40 05 19 00-2135				Full Face Flange FKM Gaskets (40 05 19 00-2074)		
				Note: (Fluoroelastomer Fluorel Viton®)		
40 05 19 00-2136	EA			4" Full Face Flange FKM Gasket, 1/8" Thick.....	45.00	
40 05 19 00-2137	EA			6" Full Face Flange FKM Gasket, 1/8" Thick.....	67.00	
40 05 19 00-2138	EA			8" Full Face Flange FKM Gasket, 1/8" Thick.....	89.50	
40 05 19 00-2139	EA			10" Full Face Flange FKM Gasket, 1/8" Thick.....	108.00	
40 05 19 00-2140	EA			12" Full Face Flange FKM Gasket, 1/8" Thick.....	140.50	
40 05 19 00-2141	EA			14" Full Face Flange FKM Gasket, 1/8" Thick.....	257.00	
40 05 19 00-2142	EA			16" Full Face Flange FKM Gasket, 1/8" Thick.....	294.50	
40 05 19 00-2143	EA			18" Full Face Flange FKM Gasket, 1/8" Thick.....	308.50	
40 05 19 00-2144	EA			20" Full Face Flange FKM Gasket, 1/8" Thick.....	329.00	
40 05 19 00-2145	EA			24" Full Face Flange FKM Gasket, 1/8" Thick.....	455.00	
40 05 19 00-2146	EA			30" Full Face Flange FKM Gasket, 1/8" Thick.....	545.50	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2147	EA		36" Full Face Flange FKM Gasket, 1/8" Thick	575.50	
40 05 19 00-2148	EA		42" Full Face Flange FKM Gasket, 1/8" Thick	717.50	
40 05 19 00-2149	EA		48" Full Face Flange FKM Gasket, 1/8" Thick	752.00	
40 05 19 00-2150			Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100) (40 05 19)		
40 05 19 00-2151	EA		4" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	283.00	58.14
40 05 19 00-2152	EA		6" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	390.61	70.98
40 05 19 00-2153	EA		8" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	574.69	86.57
40 05 19 00-2154	EA		10" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	786.79	105.60
40 05 19 00-2155	EA		12" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	997.89	128.78
40 05 19 00-2156	EA		14" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	1,593.74	157.12
40 05 19 00-2157	EA		16" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	2,495.86	191.75
40 05 19 00-2158	EA		18" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	2,583.94	233.88
40 05 19 00-2159	EA		20" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,165.44	285.39
40 05 19 00-2160	EA		24" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,532.75	348.10
40 05 19 00-2161	EA		30" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	4,548.39	424.76
40 05 19 00-2162	EA		36" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	6,740.20	518.14
40 05 19 00-2163	EA		42" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	17,434.19	632.19
40 05 19 00-2164	EA		48" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	22,262.12	771.22
40 05 23			Stainless Steel Process Pipe and Tubing (40 05)		
40 05 23 43			Stainless Steel Process Pipe (40 05 23)		
40 05 23 43-0001			Schedule 40 Pipe, Type 304, With 150 LB Screwed Fittings Assembly (40 05 23)		
			⁴³⁾ Note: Includes hangers and fittings. Fittings are assumed every 10'. Not for use where detail is available.		
40 05 23 43-0002	LF		1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	26.97	7.83
			Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			For Type 316, Add	2.92	
			For Work In Restricted Working Space, Add	4.72	
40 05 23 43-0003	LF		3/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	30.48	8.98
			Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			For Type 316, Add	3.06	
			For Work In Restricted Working Space, Add	5.61	
40 05 23 43-0004	LF		1" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	35.49	10.13
			Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			For Type 316, Add	3.59	
			For Work In Restricted Working Space, Add	6.51	
40 05 23 43-0005	LF		1-1/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	40.78	12.23
			Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			For Type 316, Add	4.53	
			For Work In Restricted Working Space, Add	7.01	
40 05 23 43-0006	LF		1-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	45.00	12.58
			Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			For Type 316, Add	5.19	
			For Work In Restricted Working Space, Add	7.51	
40 05 23 43-0007	LF		2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	54.50	16.62
			Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			For Type 316, Add	6.33	
			For Work In Restricted Working Space, Add	9.05	
40 05 23 43-0008	LF		2-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	79.21	20.50
			Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			For Type 316, Add	10.88	
			For Work In Restricted Working Space, Add	11.21	
40 05 23 43-0009	LF		3" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	100.20	23.75
			Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			For Type 316, Add	14.17	
			For Work In Restricted Working Space, Add	13.71	
40 05 23 43-0010	LF		4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	136.49	23.75
			Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			For Work In Restricted Working Space, Add	17.40	
40 05 23 43-0011			Stainless Steel Tubing And Fittings (40 05 23 43)		
40 05 23 43-0012			Type 304 Tubing (40 05 23 43-0011)		
40 05 23 43-0013			0.035" Wall (40 05 23 43-0012)		
40 05 23 43-0014	LF		1/4", 0.035" Wall, Type 304, Stainless Steel Tubing	6.44	2.50
			For Work In Restricted Working Space, Add	1.49	
40 05 23 43-0015	LF		3/8", 0.035" Wall, Type 304, Stainless Steel Tubing	7.51	2.96
			For Work In Restricted Working Space, Add	1.79	
40 05 23 43-0016	LF		1/2", 0.035" Wall, Type 304, Stainless Steel Tubing	8.94	3.52
			For Work In Restricted Working Space, Add	2.09	
40 05 23 43-0017	LF		5/8", 0.035" Wall, Type 304, Stainless Steel Tubing	13.98	3.98
			For Work In Restricted Working Space, Add	2.39	
40 05 23 43-0018	LF		3/4", 0.035" Wall, Type 304, Stainless Steel Tubing	16.50	4.45
			For Work In Restricted Working Space, Add	2.69	
40 05 23 43-0019	LF		7/8", 0.035" Wall, Type 304, Stainless Steel Tubing	18.27	5.00
			For Work In Restricted Working Space, Add	2.99	
40 05 23 43-0020	LF		1", 0.035" Wall, Type 304, Stainless Steel Tubing	20.55	6.02
			For Work In Restricted Working Space, Add	3.58	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0021				0.049" Wall <small>(40 05 23 43-0012)</small>		
			LF	1/4", 0.049" Wall, Type 304, Stainless Steel Tubing.....	10.34	2.96
				<i>For Work In Restricted Working Space, Add</i>	1.79	
			LF	3/8", 0.049" Wall, Type 304, Stainless Steel Tubing.....	11.58	3.52
				<i>For Work In Restricted Working Space, Add</i>	2.09	
			LF	1/2", 0.049" Wall, Type 304, Stainless Steel Tubing.....	13.85	3.98
				<i>For Work In Restricted Working Space, Add</i>	2.39	
			LF	5/8", 0.049" Wall, Type 304, Stainless Steel Tubing.....	17.51	5.00
				<i>For Work In Restricted Working Space, Add</i>	2.99	
			LF	3/4", 0.049" Wall, Type 304, Stainless Steel Tubing.....	20.12	6.02
				<i>For Work In Restricted Working Space, Add</i>	3.58	
			LF	7/8", 0.049" Wall, Type 304, Stainless Steel Tubing.....	22.70	6.94
				<i>For Work In Restricted Working Space, Add</i>	4.18	
			LF	1", 0.049" Wall, Type 304, Stainless Steel Tubing.....	26.15	7.87
				<i>For Work In Restricted Working Space, Add</i>	4.75	
40 05 23 43-0029				0.065" Wall <small>(40 05 23 43-0012)</small>		
			LF	1/4", 0.065" Wall, Type 304, Stainless Steel Tubing.....	12.07	3.52
				<i>For Work In Restricted Working Space, Add</i>	2.09	
			LF	3/8", 0.065" Wall, Type 304, Stainless Steel Tubing.....	13.88	3.98
				<i>For Work In Restricted Working Space, Add</i>	2.39	
			LF	1/2", 0.065" Wall, Type 304, Stainless Steel Tubing.....	17.15	5.00
				<i>For Work In Restricted Working Space, Add</i>	2.99	
			LF	5/8", 0.065" Wall, Type 304, Stainless Steel Tubing.....	20.18	6.02
				<i>For Work In Restricted Working Space, Add</i>	3.58	
			LF	3/4", 0.065" Wall, Type 304, Stainless Steel Tubing.....	23.79	6.94
				<i>For Work In Restricted Working Space, Add</i>	4.18	
			LF	7/8", 0.065" Wall, Type 304, Stainless Steel Tubing.....	27.30	7.87
				<i>For Work In Restricted Working Space, Add</i>	4.75	
			LF	1", 0.065" Wall, Type 304, Stainless Steel Tubing.....	30.77	8.89
				<i>For Work In Restricted Working Space, Add</i>	5.34	
40 05 23 43-0037				Type 304 Tube Fittings <small>(40 05 23 43-0011)</small>		
40 05 23 43-0038				90 Degree Elbows <small>(40 05 23 43-0037)</small>		
			EA	1/4", Type 304, Stainless Steel, 90 Degree Elbow.....	38.55	10.00
				<i>For Work In Restricted Working Space, Add</i>	5.97	
			EA	3/8", Type 304, Stainless Steel, 90 Degree Elbow.....	45.30	10.93
				<i>For Work In Restricted Working Space, Add</i>	6.54	
			EA	1/2", Type 304, Stainless Steel, 90 Degree Elbow.....	66.84	12.32
				<i>For Work In Restricted Working Space, Add</i>	7.41	
			EA	5/8", Type 304, Stainless Steel, 90 Degree Elbow.....	71.61	13.80
				<i>For Work In Restricted Working Space, Add</i>	8.29	
			EA	3/4", Type 304, Stainless Steel, 90 Degree Elbow.....	79.93	14.91
				<i>For Work In Restricted Working Space, Add</i>	8.96	
			EA	7/8", Type 304, Stainless Steel, 90 Degree Elbow.....	107.86	16.57
				<i>For Work In Restricted Working Space, Add</i>	9.92	
			EA	1", Type 304, Stainless Steel, 90 Degree Elbow.....	136.88	19.72
				<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0046				Union Tees <small>(40 05 23 43-0037)</small>		
			EA	1/4", Type 304, Stainless Steel, Union Tee.....	60.89	14.91
				<i>For Work In Restricted Working Space, Add</i>	8.96	
			EA	3/8", Type 304, Stainless Steel, Union Tee.....	73.31	16.57
				<i>For Work In Restricted Working Space, Add</i>	9.92	
			EA	1/2", Type 304, Stainless Steel, Union Tee.....	98.75	18.53
				<i>For Work In Restricted Working Space, Add</i>	11.11	
			EA	5/8", Type 304, Stainless Steel, Union Tee.....	106.63	21.02
				<i>For Work In Restricted Working Space, Add</i>	12.63	
			EA	3/4", Type 304, Stainless Steel, Union Tee.....	134.74	22.59
				<i>For Work In Restricted Working Space, Add</i>	13.55	
			EA	7/8", Type 304, Stainless Steel, Union Tee.....	210.35	25.01
				<i>For Work In Restricted Working Space, Add</i>	15.02	
			EA	1", Type 304, Stainless Steel, Union Tee.....	252.05	29.91
				<i>For Work In Restricted Working Space, Add</i>	17.92	
40 05 23 43-0054				Unions <small>(40 05 23 43-0037)</small>		
			EA	1/4", Type 304, Stainless Steel, Union.....	58.42	14.91
				<i>For Work In Restricted Working Space, Add</i>	8.96	
			EA	3/8", Type 304, Stainless Steel, Union.....	74.69	16.57
				<i>For Work In Restricted Working Space, Add</i>	9.92	
			EA	1/2", Type 304, Stainless Steel, Union.....	99.66	18.53
				<i>For Work In Restricted Working Space, Add</i>	11.11	
			EA	5/8", Type 304, Stainless Steel, Union.....	120.96	21.02
				<i>For Work In Restricted Working Space, Add</i>	12.63	
			EA	3/4", Type 304, Stainless Steel, Union.....	143.46	22.59
				<i>For Work In Restricted Working Space, Add</i>	13.55	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0060	EA		7/8", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	217.30 15.02	25.01
40 05 23 43-0061	EA		1", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	232.34 17.92	29.91
40 05 23 43-0062			Male Connectors <small>(40 05 23 43-0037)</small>		
40 05 23 43-0063	EA		1/4" x 1/4", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	29.72 5.97	10.00
40 05 23 43-0064	EA		3/8" x 3/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	36.61 6.54	10.93
40 05 23 43-0065	EA		1/2" x 1/2", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	46.87 7.41	12.32
40 05 23 43-0066	EA		5/8" x 5/8" Male Connection, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	52.78 8.29	13.80
40 05 23 43-0067	EA		3/4" x 3/4", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	63.20 8.96	14.91
40 05 23 43-0068	EA		7/8" x 7/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	93.18 9.92	16.57
40 05 23 43-0069	EA		1" x 1", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	98.39 11.82	19.72
40 05 23 43-0070			Type 304 Valves <small>(40 05 23 43-0011)</small>		
40 05 23 43-0071			Gate Valves <small>(40 05 23 43-0070)</small>		
40 05 23 43-0072	EA		1/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	161.58 8.09	14.91
40 05 23 43-0073	EA		3/8" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	271.12 8.52	17.50
40 05 23 43-0074	EA		1/2" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	282.14 11.82	19.72
40 05 23 43-0075	EA		3/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	312.85 13.55	22.59
40 05 23 43-0076	EA		1" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	288.42 17.92	29.91
40 05 23 43-0077			Globe Valves <small>(40 05 23 43-0070)</small>		
40 05 23 43-0078	EA		1/4" Globe Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	163.79 8.09	14.91
40 05 23 43-0079	EA		3/8" Globe Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	108.92 8.52	17.50
40 05 23 43-0080	EA		1/2" Globe Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	194.90 11.82	19.72
40 05 23 43-0081	EA		3/4" Globe Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	217.04 13.55	22.59
40 05 23 43-0082	EA		1" Globe Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	316.19 17.92	29.91
40 05 23 43-0083			Check Valves <small>(40 05 23 43-0070)</small>		
40 05 23 43-0084	EA		1/4" Check Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	228.60 8.09	14.91
40 05 23 43-0085	EA		3/8" Check Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	230.02 8.52	17.50
40 05 23 43-0086	EA		1/2" Check Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	152.12 11.82	19.72
40 05 23 43-0087	EA		3/4" Check Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	159.51 13.55	22.59
40 05 23 43-0088	EA		1" Check Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	177.35 17.92	29.91
40 05 23 43-0089			Plug Valves <small>(40 05 23 43-0070)</small>		
40 05 23 43-0090	EA		1/2" Plug Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	353.42 11.82	19.72
40 05 23 43-0091	EA		3/4" Plug Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	387.09 13.55	22.59
40 05 23 43-0092	EA		1" Plug Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	438.88 17.92	29.91
40 05 23 43-0093	EA		1-1/2" Plug Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	608.51 20.28	33.80
40 05 23 43-0094	EA		2" Plug Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	792.72 27.78	46.30
40 05 23 43-0095			Type 316 Tubing <small>(40 05 23 43-0011)</small>		
40 05 23 43-0096			0.035" Wall <small>(40 05 23 43-0095)</small>		
40 05 23 43-0097	LF		1/4" Stainless Steel Tubing, Type 316, 0.035" Wall..... <i>For Work In Restricted Working Space, Add</i>	6.67 1.49	2.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0098 LF 3/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... <i>For Work In Restricted Working Space, Add</i>	8.61 1.79	2.96
40 05 23 43-0099 LF 1/2" Stainless Steel Tubing, Type 316, 0.035" Wall..... <i>For Work In Restricted Working Space, Add</i>	9.61 2.09	3.52
40 05 23 43-0100 LF 5/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... <i>For Work In Restricted Working Space, Add</i>	15.77 2.39	3.98
40 05 23 43-0101 LF 3/4" Stainless Steel Tubing, Type 316, 0.035" Wall..... <i>For Work In Restricted Working Space, Add</i>	17.88 2.69	4.45
40 05 23 43-0102 LF 7/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... <i>For Work In Restricted Working Space, Add</i>	22.52 2.99	5.00
40 05 23 43-0103 LF 1" Stainless Steel Tubing, Type 316, 0.035" Wall..... <i>For Work In Restricted Working Space, Add</i>	23.84 3.58	6.02
40 05 23 43-0104 0.049" Wall <small>(40 05 23 43-0095)</small>		
40 05 23 43-0105 LF 1/4" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	11.30 1.79	2.96
40 05 23 43-0106 LF 3/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	12.58 2.09	3.52
40 05 23 43-0107 LF 1/2" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	14.79 2.39	3.98
40 05 23 43-0108 LF 5/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	19.24 2.99	5.00
40 05 23 43-0109 LF 3/4" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	22.27 3.58	6.02
40 05 23 43-0110 LF 7/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	28.24 4.18	6.94
40 05 23 43-0111 LF 1" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	29.05 4.75	7.87
40 05 23 43-0112 0.065" Wall <small>(40 05 23 43-0095)</small>		
40 05 23 43-0113 LF 1/4" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	13.21 2.09	3.52
40 05 23 43-0114 LF 3/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	14.75 2.39	3.98
40 05 23 43-0115 LF 1/2" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	18.51 2.99	5.00
40 05 23 43-0116 LF 5/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	22.06 3.58	6.02
40 05 23 43-0117 LF 3/4" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	26.67 4.18	6.94
40 05 23 43-0118 LF 7/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	29.44 4.75	7.87
40 05 23 43-0119 LF 1" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	34.21 5.34	8.89
40 05 23 43-0120 Type 316 Tube Fittings <small>(40 05 23 43-0011)</small>		
40 05 23 43-0121 90 Degree Elbows <small>(40 05 23 43-0120)</small>		
40 05 23 43-0122 EA 1/4" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	52.01 5.97	10.00
40 05 23 43-0123 EA 3/8" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	62.27 6.54	10.93
40 05 23 43-0124 EA 1/2" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	97.27 7.41	12.32
40 05 23 43-0125 EA 5/8" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	103.36 8.29	13.80
40 05 23 43-0126 EA 3/4" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	116.07 8.96	14.91
40 05 23 43-0127 EA 7/8" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	161.84 9.92	16.57
40 05 23 43-0128 EA 1" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	207.26 11.82	19.72
40 05 23 43-0129 Union Tees <small>(40 05 23 43-0120)</small>		
40 05 23 43-0130 EA 1/4" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	83.27 8.96	14.91
40 05 23 43-0131 EA 3/8" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	102.35 9.92	16.57
40 05 23 43-0132 EA 1/2" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	143.30 11.11	18.53
40 05 23 43-0133 EA 5/8" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	153.23 12.63	21.02
40 05 23 43-0134 EA 3/4" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	199.41 13.55	22.59
40 05 23 43-0135 EA 7/8" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	326.07 15.02	25.01
40 05 23 43-0136 EA 1" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	390.90 17.92	29.91

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0137			Unions <small>(40 05 23 43-0120)</small>		
40 05 23 43-0138	EA		1/4" Union, Stainless Steel Type 316.....	55.00	14.91
			<i>For Work In Restricted Working Space, Add</i>	8.96	
40 05 23 43-0139	EA		3/8" Union, Stainless Steel Type 316.....	69.72	16.57
			<i>For Work In Restricted Working Space, Add</i>	9.92	
40 05 23 43-0140	EA		1/2" Union, Stainless Steel Type 316.....	92.17	18.53
			<i>For Work In Restricted Working Space, Add</i>	11.11	
40 05 23 43-0141	EA		5/8" Union, Stainless Steel Type 316.....	111.53	21.02
			<i>For Work In Restricted Working Space, Add</i>	12.63	
40 05 23 43-0142	EA		3/4" Union, Stainless Steel Type 316.....	131.71	22.59
			<i>For Work In Restricted Working Space, Add</i>	13.55	
40 05 23 43-0143	EA		7/8" Union, Stainless Steel Type 316.....	197.31	25.01
			<i>For Work In Restricted Working Space, Add</i>	15.02	
40 05 23 43-0144	EA		1" Union, Stainless Steel Type 316.....	211.71	29.91
			<i>For Work In Restricted Working Space, Add</i>	17.92	
40 05 23 43-0145			Male Connectors <small>(40 05 23 43-0120)</small>		
40 05 23 43-0146	EA		1/4" x 1/4" Male Connector, Stainless Steel Type 316.....	36.66	10.00
			<i>For Work In Restricted Working Space, Add</i>	5.97	
40 05 23 43-0147	EA		3/8" x 3/8" Male Connector, Stainless Steel Type 316.....	47.09	10.93
			<i>For Work In Restricted Working Space, Add</i>	6.54	
40 05 23 43-0148	EA		1/2" x 1/2" Male Connector, Stainless Steel Type 316.....	62.55	12.32
			<i>For Work In Restricted Working Space, Add</i>	7.41	
40 05 23 43-0149	EA		5/8" x 5/8" Male Connector, Stainless Steel Type 316.....	70.56	13.80
			<i>For Work In Restricted Working Space, Add</i>	8.29	
40 05 23 43-0150	EA		3/4" x 3/4" Male Connector, Stainless Steel Type 316.....	86.76	14.91
			<i>For Work In Restricted Working Space, Add</i>	8.96	
40 05 23 43-0151	EA		7/8" x 7/8" Male Connector, Stainless Steel Type 316.....	135.67	16.57
			<i>For Work In Restricted Working Space, Add</i>	9.92	
40 05 23 43-0152	EA		1" x 1" Male Connector, Stainless Steel Type 316.....	140.08	19.72
			<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0153			Type 316 Valves <small>(40 05 23 43-0011)</small>		
40 05 23 43-0154			Gate Valves <small>(40 05 23 43-0153)</small>		
40 05 23 43-0155	EA		1/4" Gate Valve, Stainless Steel Type 316.....	205.04	14.91
			<i>For Work In Restricted Working Space, Add</i>	8.09	
40 05 23 43-0156	EA		3/8" Gate Valve, Stainless Steel Type 316.....	349.49	17.50
			<i>For Work In Restricted Working Space, Add</i>	8.52	
40 05 23 43-0157	EA		1/2" Gate Valve, Stainless Steel Type 316.....	360.51	19.72
			<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0158	EA		3/4" Gate Valve, Stainless Steel Type 316.....	399.28	22.59
			<i>For Work In Restricted Working Space, Add</i>	13.55	
40 05 23 43-0159	EA		1" Gate Valve, Stainless Steel Type 316.....	362.25	29.91
			<i>For Work In Restricted Working Space, Add</i>	17.92	
40 05 23 43-0160	EA		1-1/4" Gate Valve, Stainless Steel Type 316.....	496.83	31.02
			<i>For Work In Restricted Working Space, Add</i>	18.62	
40 05 23 43-0161	EA		1-1/2" Gate Valve, Stainless Steel Type 316.....	796.86	33.80
			<i>For Work In Restricted Working Space, Add</i>	20.28	
40 05 23 43-0162	EA		2" Gate Valve, Stainless Steel Type 316.....	948.29	46.30
			<i>For Work In Restricted Working Space, Add</i>	27.78	
40 05 23 43-0163	EA		2-1/2" Gate Valve, Stainless Steel Type 316.....	1,414.66	148.27
			<i>For Work In Restricted Working Space, Add</i>	88.93	
40 05 23 43-0164			Globe Valves <small>(40 05 23 43-0153)</small>		
40 05 23 43-0165	EA		1/4" Globe Valve, Stainless Steel Type 316.....	207.96	14.91
			<i>For Work In Restricted Working Space, Add</i>	8.09	
40 05 23 43-0166	EA		3/8" Globe Valve, Stainless Steel Type 316.....	134.92	17.50
			<i>For Work In Restricted Working Space, Add</i>	8.52	
40 05 23 43-0167	EA		1/2" Globe Valve, Stainless Steel Type 316.....	245.10	19.72
			<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0168	EA		3/4" Globe Valve, Stainless Steel Type 316.....	272.53	22.59
			<i>For Work In Restricted Working Space, Add</i>	13.55	
40 05 23 43-0169	EA		1" Globe Valve, Stainless Steel Type 316.....	398.99	29.91
			<i>For Work In Restricted Working Space, Add</i>	17.92	
40 05 23 43-0170	EA		1-1/4" Globe Valve, Stainless Steel Type 316.....	497.77	30.84
			<i>For Work In Restricted Working Space, Add</i>	18.48	
40 05 23 43-0171	EA		1-1/2" Globe Valve, Stainless Steel Type 316.....	826.03	33.80
			<i>For Work In Restricted Working Space, Add</i>	20.28	
40 05 23 43-0172	EA		2" Globe Valve, Stainless Steel Type 316.....	977.46	46.30
			<i>For Work In Restricted Working Space, Add</i>	27.78	
40 05 23 43-0173	EA		2-1/2" Globe Valve, Stainless Steel Type 316.....	1,229.91	148.27
			<i>For Work In Restricted Working Space, Add</i>	88.93	
40 05 23 43-0174			Check Valves <small>(40 05 23 43-0153)</small>		
40 05 23 43-0175	EA		1/4" Check Valve, Stainless Steel Type 316.....	293.70	14.91
			<i>For Work In Restricted Working Space, Add</i>	8.09	
40 05 23 43-0176	EA		3/8" Check Valve, Stainless Steel Type 316.....	295.12	17.50
			<i>For Work In Restricted Working Space, Add</i>	8.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0177 EA 1/2" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	188.51 11.82	19.72
40 05 23 43-0178 EA 3/4" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	196.43 13.55	22.59
40 05 23 43-0179 EA 1" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	215.32 17.92	29.91
40 05 23 43-0180 EA 1-1/4" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	297.17 18.62	31.02
40 05 23 43-0181 EA 1-1/2" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	660.73 20.28	33.80
40 05 23 43-0182 EA 2" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	802.44 27.78	46.30
40 05 23 43-0183 EA 2-1/2" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,592.93 88.93	148.27
40 05 23 43-0184 Diaphragm Valves, Ethylene Propylene Diene Monomer (EPDM) Lined <small>(40 05 23 43-0153)</small>		
40 05 23 43-0185 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined..... <i>For Work In Restricted Working Space, Add</i>	315.84 11.82	19.72
40 05 23 43-0186 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined..... <i>For Work In Restricted Working Space, Add</i>	368.92 13.55	22.59
40 05 23 43-0187 EA 1" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined..... <i>For Work In Restricted Working Space, Add</i>	470.59 17.92	29.91
40 05 23 43-0188 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined..... <i>For Work In Restricted Working Space, Add</i>	749.18 20.28	33.80
40 05 23 43-0189 EA 2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined..... <i>For Work In Restricted Working Space, Add</i>	1,046.84 27.78	46.30
40 05 23 43-0190 Diaphragm Valves, Teflon Lined <small>(40 05 23 43-0153)</small>		
40 05 23 43-0191 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	418.07 11.82	19.72
40 05 23 43-0192 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	480.63 13.55	22.59
40 05 23 43-0193 EA 1" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	582.30 17.92	29.91
40 05 23 43-0194 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	906.32 20.28	33.80
40 05 23 43-0195 EA 2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	1,234.28 27.78	46.30
40 05 23 43-0196 Strainers <small>(40 05 23 43-0153)</small>		
40 05 23 43-0197 EA 1/2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	419.06 11.82	19.72
40 05 23 43-0198 EA 3/4" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	501.47 13.61	22.69
40 05 23 43-0199 EA 1" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	656.14 18.06	30.10
40 05 23 43-0200 EA 1-1/4" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	814.47 18.62	31.02
40 05 23 43-0201 EA 1-1/2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	1,022.07 20.28	33.80
40 05 23 43-0202 EA 2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	1,473.86 27.78	46.30
40 05 23 43-0203 EA 2-1/2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	2,025.41 36.95	61.59
40 05 23 43-0204 EA 3" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	2,949.68 55.56	92.61
40 05 23 43-0205 EA 4" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	3,776.89 88.90	148.17
40 05 23 43-0206 Plug Valves <small>(40 05 23 43-0153)</small>		
40 05 23 43-0207 EA 1/2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	446.50 11.82	19.72
40 05 23 43-0208 EA 3/4" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	488.45 13.55	22.59
40 05 23 43-0209 EA 1" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	551.26 17.92	29.91
40 05 23 43-0210 EA 1-1/2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	768.85 20.28	33.80
40 05 23 43-0211 EA 2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,000.25 27.78	46.30
40 05 23 43-0212 Cut And Prepare Existing Pipe In-Place <small>(40 05 23 43-0011)</small>		
Note: For use when connecting pipe to an existing in-place system.		
40 05 23 43-0213 EA Cut And Prepare 1/2" Stainless Steel Pipe	19.11	
40 05 23 43-0214 EA Cut And Prepare 3/4" Stainless Steel Pipe	20.64	
40 05 23 43-0215 EA Cut And Prepare 1" Stainless Steel Pipe.....	23.22	
40 05 23 43-0216 EA Cut And Prepare 1-1/4" Stainless Steel Pipe.....	24.37	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0217	EA		Cut And Prepare 1-1/2" Stainless Steel Pipe	25.80	
40 05 23 43-0218	EA		Cut And Prepare 2" Stainless Steel Pipe	27.71	
40 05 23 43-0219	EA		Cut And Prepare 2-1/2" Stainless Steel Pipe	29.62	
40 05 23 43-0220	EA		Cut And Prepare 3" Stainless Steel Pipe	32.49	
40 05 23 43-0221	EA		Cut And Prepare 4" Stainless Steel Pipe	35.35	
40 05 23 43-0222	EA		Cut And Prepare 6" Stainless Steel Pipe	38.22	
40 05 23 43-0223	EA		Cut And Prepare 8" Stainless Steel Pipe	41.09	
40 05 23 43-0224	EA		Cut And Prepare 10" Stainless Steel Pipe	44.92	
40 05 23 43-0225	EA		Cut And Prepare 12" Stainless Steel Pipe	48.74	
40 05 23 43-0226	EA		Cut And Prepare 14" Stainless Steel Pipe	52.55	
40 05 23 43-0227	EA		Cut And Prepare 16" Stainless Steel Pipe	56.37	
40 05 23 43-0228	EA		Cut And Prepare 18" Stainless Steel Pipe	59.25	
40 05 23 43-0229	EA		Cut And Prepare 20" Stainless Steel Pipe	62.12	
40 05 23 43-0230	EA		Cut And Prepare 24" Stainless Steel Pipe	65.94	
40 05 23 43-0231			Stainless Steel Pipe And Fittings (40 05 23 43)		
40 05 23 43-0232			Type 304, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings (40 05 23 43-0231)		
40 05 23 43-0233			Type 304, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 43-0232)		
40 05 23 43-0234	LF		1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	13.48	3.98
			<i>For Work In Restricted Working Space, Add</i>	2.39	
40 05 23 43-0235	LF		3/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	16.61	5.00
			<i>For Work In Restricted Working Space, Add</i>	2.99	
40 05 23 43-0236	LF		1" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	20.39	6.02
			<i>For Work In Restricted Working Space, Add</i>	3.58	
40 05 23 43-0237	LF		1-1/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	24.48	6.94
			<i>For Work In Restricted Working Space, Add</i>	4.18	
40 05 23 43-0238	LF		1-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	28.31	7.87
			<i>For Work In Restricted Working Space, Add</i>	4.75	
40 05 23 43-0239	LF		2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	36.15	10.00
			<i>For Work In Restricted Working Space, Add</i>	5.97	
40 05 23 43-0240	LF		2-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	48.81	11.85
			<i>For Work In Restricted Working Space, Add</i>	7.13	
40 05 23 43-0241	LF		3" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	61.36	14.91
			<i>For Work In Restricted Working Space, Add</i>	8.96	
40 05 23 43-0242	LF		4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	82.99	19.72
			<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0243			150#, Type 304 Stainless Steel Threaded 90 Degree Elbows (40 05 23 43-0232)		
40 05 23 43-0244	EA		1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	31.87	14.91
			<i>For Work In Restricted Working Space, Add</i>	8.96	
40 05 23 43-0245	EA		3/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	42.25	19.72
			<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0246	EA		1", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	54.19	25.01
			<i>For Work In Restricted Working Space, Add</i>	15.02	
40 05 23 43-0247	EA		1-1/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	75.66	34.26
			<i>For Work In Restricted Working Space, Add</i>	20.58	
40 05 23 43-0248	EA		1-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	89.93	40.28
			<i>For Work In Restricted Working Space, Add</i>	24.16	
40 05 23 43-0249	EA		2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	109.42	48.72
			<i>For Work In Restricted Working Space, Add</i>	29.24	
40 05 23 43-0250	EA		2-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	181.54	77.14
			<i>For Work In Restricted Working Space, Add</i>	46.31	
40 05 23 43-0251	EA		3", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	233.80	99.55
			<i>For Work In Restricted Working Space, Add</i>	59.75	
40 05 23 43-0252	EA		4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	314.55	123.44
			<i>For Work In Restricted Working Space, Add</i>	74.09	
40 05 23 43-0253			150#, Type 304 Stainless Steel Threaded 45 Degree Elbows (40 05 23 43-0232)		
40 05 23 43-0254	EA		1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	32.32	14.91
			<i>For Work In Restricted Working Space, Add</i>	8.96	
40 05 23 43-0255	EA		3/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	42.99	19.72
			<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0256	EA		1", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	54.42	25.01
			<i>For Work In Restricted Working Space, Add</i>	15.02	
40 05 23 43-0257	EA		1-1/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	75.58	34.26
			<i>For Work In Restricted Working Space, Add</i>	20.58	
40 05 23 43-0258	EA		1-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	88.83	40.28
			<i>For Work In Restricted Working Space, Add</i>	24.16	
40 05 23 43-0259	EA		2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	109.17	48.72
			<i>For Work In Restricted Working Space, Add</i>	29.24	
40 05 23 43-0260	EA		2-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	186.49	77.14
			<i>For Work In Restricted Working Space, Add</i>	46.31	
40 05 23 43-0261	EA		3", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	243.46	99.55
			<i>For Work In Restricted Working Space, Add</i>	59.75	
40 05 23 43-0262	EA		4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	325.80	123.44
			<i>For Work In Restricted Working Space, Add</i>	74.09	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0263 150#, Type 304 Stainless Steel Threaded Tees <small>(40 05 23 43-0232)</small>						
40 05 23 43-0264	EA			1/2", 150#, Type 304 Stainless Steel Threaded Tee.....	47.87	22.59
				<i>For Work In Restricted Working Space, Add</i>	13.55	
40 05 23 43-0265	EA			3/4", 150#, Type 304 Stainless Steel Threaded Tee.....	64.02	29.91
				<i>For Work In Restricted Working Space, Add</i>	17.92	
40 05 23 43-0266	EA			1", 150#, Type 304 Stainless Steel Threaded Tee.....	79.53	37.04
				<i>For Work In Restricted Working Space, Add</i>	22.22	
40 05 23 43-0267	EA			1-1/4", 150#, Type 304 Stainless Steel Threaded Tee	113.73	51.49
				<i>For Work In Restricted Working Space, Add</i>	30.87	
40 05 23 43-0268	EA			1-1/2", 150#, Type 304 Stainless Steel Threaded Tee	129.23	57.88
				<i>For Work In Restricted Working Space, Add</i>	34.73	
40 05 23 43-0269	EA			2", 150#, Type 304 Stainless Steel Threaded Tee.....	171.65	77.14
				<i>For Work In Restricted Working Space, Add</i>	46.31	
40 05 23 43-0270	EA			2-1/2", 150#, Type 304 Stainless Steel Threaded Tee	260.24	111.59
				<i>For Work In Restricted Working Space, Add</i>	66.95	
40 05 23 43-0271	EA			3", 150#, Type 304 Stainless Steel Threaded Tee.....	352.18	149.38
				<i>For Work In Restricted Working Space, Add</i>	89.62	
40 05 23 43-0272	EA			4", 150#, Type 304 Stainless Steel Threaded Tee.....	466.97	185.21
				<i>For Work In Restricted Working Space, Add</i>	111.13	
40 05 23 43-0273 150#, Type 304 Stainless Steel Threaded Reducers <small>(40 05 23 43-0232)</small>						
40 05 23 43-0274	EA			3/4", 150#, Type 304 Stainless Steel Threaded Reducer	41.90	19.72
				<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0275	EA			1", 150#, Type 304 Stainless Steel Threaded Reducer	53.46	25.01
				<i>For Work In Restricted Working Space, Add</i>	15.02	
40 05 23 43-0276	EA			1-1/4", 150#, Type 304 Stainless Steel Threaded Reducer	73.59	34.26
				<i>For Work In Restricted Working Space, Add</i>	20.58	
40 05 23 43-0277	EA			1-1/2", 150#, Type 304 Stainless Steel Threaded Reducer	87.70	40.28
				<i>For Work In Restricted Working Space, Add</i>	24.16	
40 05 23 43-0278	EA			2", 150#, Type 304 Stainless Steel Threaded Reducer	109.47	48.72
				<i>For Work In Restricted Working Space, Add</i>	29.24	
40 05 23 43-0279	EA			2-1/2", 150#, Type 304 Stainless Steel Threaded Reducer	180.08	77.14
				<i>For Work In Restricted Working Space, Add</i>	46.31	
40 05 23 43-0280	EA			3", 150#, Type 304 Stainless Steel Threaded Reducer	235.79	99.55
				<i>For Work In Restricted Working Space, Add</i>	59.75	
40 05 23 43-0281	EA			4", 150#, Type 304 Stainless Steel Threaded Reducer	307.64	123.44
				<i>For Work In Restricted Working Space, Add</i>	74.09	
40 05 23 43-0282 150#, Type 304 Stainless Steel Threaded Caps <small>(40 05 23 43-0232)</small>						
40 05 23 43-0283	EA			1/2", 150#, Type 304 Stainless Steel Threaded Cap	16.25	7.50
				<i>For Work In Restricted Working Space, Add</i>	4.48	
40 05 23 43-0284	EA			3/4", 150#, Type 304 Stainless Steel Threaded Cap	21.56	10.00
				<i>For Work In Restricted Working Space, Add</i>	5.97	
40 05 23 43-0285	EA			1", 150#, Type 304 Stainless Steel Threaded Cap	27.17	12.32
				<i>For Work In Restricted Working Space, Add</i>	7.41	
40 05 23 43-0286	EA			1-1/4", 150#, Type 304 Stainless Steel Threaded Cap	39.44	17.50
				<i>For Work In Restricted Working Space, Add</i>	10.49	
40 05 23 43-0287	EA			1-1/2", 150#, Type 304 Stainless Steel Threaded Cap	45.30	19.72
				<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0288	EA			2", 150#, Type 304 Stainless Steel Threaded Cap	57.56	25.01
				<i>For Work In Restricted Working Space, Add</i>	15.02	
40 05 23 43-0289	EA			2-1/2", 150#, Type 304 Stainless Steel Threaded Cap	87.64	37.04
				<i>For Work In Restricted Working Space, Add</i>	22.22	
40 05 23 43-0290	EA			3", 150#, Type 304 Stainless Steel Threaded Cap	116.22	48.72
				<i>For Work In Restricted Working Space, Add</i>	29.24	
40 05 23 43-0291	EA			4", 150#, Type 304 Stainless Steel Threaded Cap	155.18	61.77
				<i>For Work In Restricted Working Space, Add</i>	37.04	
40 05 23 43-0292 150#, Type 304 Stainless Steel Threaded Unions <small>(40 05 23 43-0232)</small>						
40 05 23 43-0293	EA			1/2", 150#, Type 304 Stainless Steel Threaded Union	50.75	22.59
				<i>For Work In Restricted Working Space, Add</i>	13.55	
40 05 23 43-0294	EA			3/4", 150#, Type 304 Stainless Steel Threaded Union	66.80	29.91
				<i>For Work In Restricted Working Space, Add</i>	17.92	
40 05 23 43-0295	EA			1", 150#, Type 304 Stainless Steel Threaded Union	84.75	37.04
				<i>For Work In Restricted Working Space, Add</i>	22.22	
40 05 23 43-0296	EA			1-1/4", 150#, Type 304 Stainless Steel Threaded Union	121.41	51.49
				<i>For Work In Restricted Working Space, Add</i>	30.87	
40 05 23 43-0297	EA			1-1/2", 150#, Type 304 Stainless Steel Threaded Union	136.67	57.88
				<i>For Work In Restricted Working Space, Add</i>	34.73	
40 05 23 43-0298	EA			2", 150#, Type 304 Stainless Steel Threaded Union	179.40	77.14
				<i>For Work In Restricted Working Space, Add</i>	46.31	
40 05 23 43-0299	EA			2-1/2", 150#, Type 304 Stainless Steel Threaded Union	299.37	115.76
				<i>For Work In Restricted Working Space, Add</i>	69.46	
40 05 23 43-0300	EA			3", 150#, Type 304 Stainless Steel Threaded Union	384.19	149.38
				<i>For Work In Restricted Working Space, Add</i>	89.63	
40 05 23 43-0301	EA			4", 150#, Type 304 Stainless Steel Threaded Union	385.67	123.49
				<i>For Work In Restricted Working Space, Add</i>	74.10	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0302			150#, Type 304 Stainless Steel Threaded Couplings (40 05 23 43-0232)		
40 05 23 43-0303	EA		1/2", 150#, Type 304 Stainless Steel Threaded Coupling.....	31.67	14.91
			<i>For Work In Restricted Working Space, Add</i>	8.96	
40 05 23 43-0304	EA		3/4", 150#, Type 304 Stainless Steel Threaded Coupling.....	41.99	19.72
			<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0305	EA		1", 150#, Type 304 Stainless Steel Threaded Coupling.....	53.98	25.01
			<i>For Work In Restricted Working Space, Add</i>	15.02	
40 05 23 43-0306	EA		1-1/4", 150#, Type 304 Stainless Steel Threaded Coupling.....	74.85	34.26
			<i>For Work In Restricted Working Space, Add</i>	20.58	
40 05 23 43-0307	EA		1-1/2", 150#, Type 304 Stainless Steel Threaded Coupling.....	87.94	40.28
			<i>For Work In Restricted Working Space, Add</i>	24.16	
40 05 23 43-0308	EA		2", 150#, Type 304 Stainless Steel Threaded Coupling.....	107.94	48.72
			<i>For Work In Restricted Working Space, Add</i>	29.24	
40 05 23 43-0309	EA		2-1/2", 150#, Type 304 Stainless Steel Threaded Coupling.....	177.31	77.14
			<i>For Work In Restricted Working Space, Add</i>	46.31	
40 05 23 43-0310	EA		3", 150#, Type 304 Stainless Steel Threaded Coupling.....	228.84	99.55
			<i>For Work In Restricted Working Space, Add</i>	59.75	
40 05 23 43-0311	EA		4", 150#, Type 304 Stainless Steel Threaded Coupling.....	293.09	123.44
			<i>For Work In Restricted Working Space, Add</i>	74.09	
40 05 23 43-0312			Type 316, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings		
			(40 05 23 43-0231)		
40 05 23 43-0313			Type 316, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 43-0312)		
40 05 23 43-0314	LF		1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	16.41	3.98
			<i>For Work In Restricted Working Space, Add</i>	2.39	
40 05 23 43-0315	LF		3/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	19.49	5.00
			<i>For Work In Restricted Working Space, Add</i>	2.99	
40 05 23 43-0316	LF		1" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	24.53	6.02
			<i>For Work In Restricted Working Space, Add</i>	3.58	
40 05 23 43-0317	LF		1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	29.90	6.94
			<i>For Work In Restricted Working Space, Add</i>	4.18	
40 05 23 43-0318	LF		1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	34.73	7.87
			<i>For Work In Restricted Working Space, Add</i>	4.75	
40 05 23 43-0319	LF		2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	44.74	10.00
			<i>For Work In Restricted Working Space, Add</i>	5.97	
40 05 23 43-0320	LF		2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	60.83	11.85
			<i>For Work In Restricted Working Space, Add</i>	7.13	
40 05 23 43-0321	LF		3" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	79.28	14.91
			<i>For Work In Restricted Working Space, Add</i>	8.96	
40 05 23 43-0322	LF		4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	106.31	19.72
			<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0323			150#, Type 316 Stainless Steel Threaded 90 Degree Elbows (40 05 23 43-0312)		
40 05 23 43-0324	EA		1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	32.46	14.91
			<i>For Work In Restricted Working Space, Add</i>	8.96	
40 05 23 43-0325	EA		3/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	43.14	19.72
			<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0326	EA		1", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	54.73	25.01
			<i>For Work In Restricted Working Space, Add</i>	15.02	
40 05 23 43-0327	EA		1-1/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	76.64	34.26
			<i>For Work In Restricted Working Space, Add</i>	20.58	
40 05 23 43-0328	EA		1-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	91.24	40.28
			<i>For Work In Restricted Working Space, Add</i>	24.16	
40 05 23 43-0329	EA		2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	111.04	48.72
			<i>For Work In Restricted Working Space, Add</i>	29.24	
40 05 23 43-0330	EA		2-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	184.12	77.14
			<i>For Work In Restricted Working Space, Add</i>	46.31	
40 05 23 43-0331	EA		3", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	240.12	99.55
			<i>For Work In Restricted Working Space, Add</i>	59.75	
40 05 23 43-0332	EA		4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	322.24	123.44
			<i>For Work In Restricted Working Space, Add</i>	74.09	
40 05 23 43-0333			150#, Type 316 Stainless Steel Threaded 45 Degree Elbows (40 05 23 43-0312)		
40 05 23 43-0334	EA		1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	32.95	14.91
			<i>For Work In Restricted Working Space, Add</i>	8.96	
40 05 23 43-0335	EA		3/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	43.45	19.72
			<i>For Work In Restricted Working Space, Add</i>	11.82	
40 05 23 43-0336	EA		1", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	55.09	25.01
			<i>For Work In Restricted Working Space, Add</i>	15.02	
40 05 23 43-0337	EA		1-1/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	76.54	34.26
			<i>For Work In Restricted Working Space, Add</i>	20.58	
40 05 23 43-0338	EA		1-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	89.97	40.28
			<i>For Work In Restricted Working Space, Add</i>	24.16	
40 05 23 43-0339	EA		2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	110.68	48.72
			<i>For Work In Restricted Working Space, Add</i>	29.24	
40 05 23 43-0340	EA		2-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	188.92	77.14
			<i>For Work In Restricted Working Space, Add</i>	46.31	
40 05 23 43-0341	EA		3", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	249.06	99.55
			<i>For Work In Restricted Working Space, Add</i>	59.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0342 EA 4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	340.91 74.09	123.44
40 05 23 43-0343 150#, Type 316 Stainless Steel Threaded Tees (40 05 23 43-0312)		
40 05 23 43-0344 EA 1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	48.51 13.55	22.59
40 05 23 43-0345 EA 3/4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	64.67 17.92	29.91
40 05 23 43-0346 EA 1", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	80.25 22.22	37.04
40 05 23 43-0347 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	115.21 30.87	51.49
40 05 23 43-0348 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	130.69 34.73	57.88
40 05 23 43-0349 EA 2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	173.57 46.31	77.14
40 05 23 43-0350 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	268.10 66.95	111.59
40 05 23 43-0351 EA 3", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	362.89 89.62	149.38
40 05 23 43-0352 EA 4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	474.95 111.13	185.21
40 05 23 43-0353 150#, Type 316 Stainless Steel Threaded Reducers (40 05 23 43-0312)		
40 05 23 43-0354 EA 3/4", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	42.45 11.82	19.72
40 05 23 43-0355 EA 1", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	55.08 15.02	25.01
40 05 23 43-0356 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	73.90 20.58	34.26
40 05 23 43-0357 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	89.29 24.16	40.28
40 05 23 43-0358 EA 2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	112.26 29.24	48.72
40 05 23 43-0359 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	186.41 46.31	77.14
40 05 23 43-0360 EA 3", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	242.80 59.75	99.55
40 05 23 43-0361 EA 4", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	319.31 74.09	123.44
40 05 23 43-0362 150#, Type 316 Stainless Steel Threaded Caps (40 05 23 43-0312)		
40 05 23 43-0363 EA 1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	16.61 4.48	7.50
40 05 23 43-0364 EA 3/4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	21.83 5.97	10.00
40 05 23 43-0365 EA 1", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	27.64 7.41	12.32
40 05 23 43-0366 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	40.75 10.49	17.50
40 05 23 43-0367 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	46.86 11.82	19.72
40 05 23 43-0368 EA 2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	59.58 15.02	25.01
40 05 23 43-0369 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	90.98 22.22	37.04
40 05 23 43-0370 EA 3", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	119.62 29.24	48.72
40 05 23 43-0371 EA 4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	161.92 37.04	61.77
40 05 23 43-0372 150#, Type 316 Stainless Steel Threaded Unions (40 05 23 43-0312)		
40 05 23 43-0373 EA 1/2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	51.51 13.55	22.59
40 05 23 43-0374 EA 3/4", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	69.69 17.92	29.91
40 05 23 43-0375 EA 1", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	86.21 22.22	37.04
40 05 23 43-0376 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	123.89 30.87	51.49
40 05 23 43-0377 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	139.58 34.73	57.88
40 05 23 43-0378 EA 2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	182.76 46.31	77.14
40 05 23 43-0379 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	304.52 69.46	115.76
40 05 23 43-0380 EA 3", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	400.25 89.63	149.38

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0381	EA		4", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	419.92 74.10	123.49
40 05 23 43-0382			150#, Type 316 Stainless Steel Threaded Couplings (40 05 23 43-0312)		
40 05 23 43-0383	EA		1/2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	32.88 8.96	14.91
40 05 23 43-0384	EA		3/4", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	42.55 11.82	19.72
40 05 23 43-0385	EA		1", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	54.52 15.02	25.01
40 05 23 43-0386	EA		1-1/4", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	75.70 20.58	34.26
40 05 23 43-0387	EA		1-1/2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	88.96 24.16	40.28
40 05 23 43-0388	EA		2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	109.36 29.24	48.72
40 05 23 43-0389	EA		2-1/2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	182.25 46.31	77.14
40 05 23 43-0390	EA		3", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	235.21 59.75	99.55
40 05 23 43-0391	EA		4", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	302.64 74.09	123.44
40 05 23 43-0392			Type 304, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 43-0231)		
40 05 23 43-0393			Type 304, Schedule 10 Stainless Steel Pipe (40 05 23 43-0392)		
40 05 23 43-0394	LF		1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	14.92 2.33	3.88
40 05 23 43-0395	LF		3/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	17.78 2.85	4.75
40 05 23 43-0396	LF		1" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	23.48 3.34	5.60
40 05 23 43-0397	LF		1-1/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	28.68 4.18	6.99
40 05 23 43-0398	LF		1-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	31.92 4.71	7.86
40 05 23 43-0399	LF		2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	39.47 5.83	9.75
40 05 23 43-0400	LF		2-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	47.13 6.66	11.13
40 05 23 43-0401	LF		3" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	55.55 7.50	12.51
40 05 23 43-0402	LF		4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	69.68 8.88	14.83
40 05 23 43-0403	LF		6" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	101.42 11.66	19.50
40 05 23 43-0404	LF		8" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	168.97 21.95	34.17
40 05 23 43-0405	LF		10" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	215.38 24.14	37.56
40 05 23 43-0406	LF		12" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	257.57 26.83	41.76
40 05 23 43-0407	LF		14" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	316.58 30.18	46.95
40 05 23 43-0408	LF		16" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	348.71 34.49	53.66
40 05 23 43-0409	LF		18" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	390.87 40.24	62.60
40 05 23 43-0410	LF		20" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	541.85 48.29	75.12
40 05 23 43-0411	LF		24" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	706.36 60.36	93.90
40 05 23 43-0412			Type 304, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbow (40 05 23 43-0392)		
40 05 23 43-0413	EA		1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	101.33 29.50	44.26
40 05 23 43-0414	EA		3/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	107.37 31.31	46.97
40 05 23 43-0415	EA		1", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	118.24 34.42	51.63
40 05 23 43-0416	EA		1-1/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	129.00 37.51	56.26
40 05 23 43-0417	EA		1-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	142.48 41.42	62.13
40 05 23 43-0418	EA		2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	159.07 46.08	69.13
40 05 23 43-0419	EA		2-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	205.93 58.98	88.47
40 05 23 43-0420	EA		3", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	241.51 69.13	103.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0421 EA 4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	293.93 82.74	124.11
40 05 23 43-0422 EA 6", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	393.11 103.36	155.04
40 05 23 43-0423 EA 8", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	664.04 172.47	258.70
40 05 23 43-0424 EA 10", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	957.74 229.96	344.93
40 05 23 43-0425 EA 12", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,444.41 344.94	517.41
40 05 23 43-0426 EA 14", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,703.03 402.43	603.64
40 05 23 43-0427 EA 16", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,988.08 459.05	688.56
40 05 23 43-0428 EA 18", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,507.89 574.90	862.35
40 05 23 43-0429 EA 20", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,499.46 804.85	1,207.28
40 05 23 43-0430 EA 24", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,018.58 1,149.79	1,724.69
40 05 23 43-0431 Type 304, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbow (40 05 23 43-0392)		
40 05 23 43-0432 EA 1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	102.21 29.50	44.26
40 05 23 43-0433 EA 3/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	108.25 31.31	46.97
40 05 23 43-0434 EA 1", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	119.30 34.42	51.63
40 05 23 43-0435 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	130.41 37.51	56.26
40 05 23 43-0436 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	142.66 41.42	62.13
40 05 23 43-0437 EA 2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	159.07 46.08	69.13
40 05 23 43-0438 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	205.05 58.98	88.47
40 05 23 43-0439 EA 3", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	239.92 69.13	103.69
40 05 23 43-0440 EA 4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	290.94 82.74	124.11
40 05 23 43-0441 EA 6", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	377.44 103.36	155.04
40 05 23 43-0442 EA 8", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	633.83 172.47	258.70
40 05 23 43-0443 EA 10", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	903.95 229.96	344.93
40 05 23 43-0444 EA 12", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,359.25 344.94	517.41
40 05 23 43-0445 EA 14", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,598.50 402.43	603.64
40 05 23 43-0446 EA 16", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,859.08 459.05	688.56
40 05 23 43-0447 EA 18", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,338.48 574.90	862.35
40 05 23 43-0448 EA 20", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,270.86 804.85	1,207.28
40 05 23 43-0449 EA 24", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,694.30 1,149.79	1,724.69
40 05 23 43-0450 Type 304, Schedule 10 Stainless Steel Butt Weld Tee (40 05 23 43-0392)		
40 05 23 43-0451 EA 1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	134.67 37.50	56.25
40 05 23 43-0452 EA 3/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	163.12 46.03	69.05
40 05 23 43-0453 EA 1", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	182.08 51.72	77.59
40 05 23 43-0454 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	207.35 58.98	88.47
40 05 23 43-0455 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	220.72 63.31	94.97
40 05 23 43-0456 EA 2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	240.56 69.05	103.58
40 05 23 43-0457 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	305.10 82.74	124.11
40 05 23 43-0458 EA 3", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	364.64 103.69	155.54
40 05 23 43-0459 EA 4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	416.41 116.37	174.56
40 05 23 43-0460 EA 6", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	593.07 155.16	232.74

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0461 EA 8", Type 304, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	945.39 229.96	344.93
40 05 23 43-0462 EA 10", Type 304, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,444.41 344.94	517.41
40 05 23 43-0463 EA 12", Type 304, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,846.48 431.17	646.75
40 05 23 43-0464 EA 14", Type 304, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,260.76 518.15	777.22
40 05 23 43-0465 EA 16", Type 304, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,742.39 632.08	948.12
40 05 23 43-0466 EA 18", Type 304, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,490.07 804.85	1,207.28
40 05 23 43-0467 EA 20", Type 304, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	4,652.14 1,059.02	1,588.53
40 05 23 43-0468 EA 24", Type 304, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	6,993.48 1,609.71	2,414.56
40 05 23 43-0469 Type 304, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 43-0392)		
40 05 23 43-0470 EA 3/4", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	121.68 31.33	46.99
40 05 23 43-0471 EA 1", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	145.22 38.39	57.59
40 05 23 43-0472 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	175.27 43.13	64.70
40 05 23 43-0473 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	185.56 49.17	73.77
40 05 23 43-0474 EA 2", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	195.68 52.84	79.26
40 05 23 43-0475 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	244.93 57.59	86.37
40 05 23 43-0476 EA 3", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	289.57 69.02	103.54
40 05 23 43-0477 EA 4", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	357.96 86.27	129.41
40 05 23 43-0478 EA 6", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	458.46 98.57	147.86
40 05 23 43-0479 EA 8", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	822.73 143.72	215.58
40 05 23 43-0480 EA 10", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	1,316.80 191.63	287.45
40 05 23 43-0481 EA 12", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	1,893.36 287.45	431.17
40 05 23 43-0482 EA 14", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,294.16 345.33	518.00
40 05 23 43-0483 EA 16", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,835.68 421.24	631.86
40 05 23 43-0484 EA 18", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	3,655.36 536.57	804.86
40 05 23 43-0485 EA 20", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	5,148.95 706.01	1,059.01
40 05 23 43-0486 EA 24", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	8,026.42 1,072.19	1,608.27
40 05 23 43-0487 Type 304, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 43-0392)		
40 05 23 43-0488 EA 3/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	100.95 28.49	42.74
40 05 23 43-0489 EA 1", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	110.88 31.05	46.57
40 05 23 43-0490 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	122.91 34.42	51.63
40 05 23 43-0491 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	131.54 37.51	56.26
40 05 23 43-0492 EA 2", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	143.89 41.42	62.13
40 05 23 43-0493 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	189.79 51.76	77.65
40 05 23 43-0494 EA 3", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	214.91 58.93	88.40
40 05 23 43-0495 EA 4", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	251.33 69.05	103.58
40 05 23 43-0496 EA 6", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	323.31 87.91	131.86
40 05 23 43-0497 EA 8", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	508.54 137.98	206.97
40 05 23 43-0498 EA 10", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	644.28 172.47	258.70
40 05 23 43-0499 EA 12", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	864.79 229.96	344.93
40 05 23 43-0500 EA 14", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,210.46 301.82	452.73
40 05 23 43-0501 EA 16", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,407.70 343.95	515.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0502 EA 18", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,739.66 431.17	646.75
40 05 23 43-0503 EA 20", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,415.92 574.90	862.35
40 05 23 43-0504 EA 24", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,512.48 862.34	1,293.52
40 05 23 43-0505 EA 3/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	117.50 28.49	42.74
40 05 23 43-0506 EA 1", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	123.03 31.05	46.57
40 05 23 43-0507 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	131.23 34.42	51.63
40 05 23 43-0508 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	146.68 37.51	56.26
40 05 23 43-0509 EA 2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	154.80 41.42	62.13
40 05 23 43-0510 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	201.76 51.76	77.65
40 05 23 43-0511 EA 3", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	226.70 58.93	88.40
40 05 23 43-0512 EA 4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	260.45 69.05	103.58
40 05 23 43-0513 EA 6", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	356.22 87.91	131.86
40 05 23 43-0514 EA 8", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	579.09 137.98	206.97
40 05 23 43-0515 EA 10", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	781.90 172.47	258.70
40 05 23 43-0516 EA 12", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	991.95 229.96	344.93
40 05 23 43-0517 EA 14", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,503.81 301.82	452.73
40 05 23 43-0518 EA 16", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,743.83 343.95	515.93
40 05 23 43-0519 EA 18", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,149.89 431.17	646.75
40 05 23 43-0520 EA 20", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,073.30 574.90	862.35
40 05 23 43-0521 EA 24", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	4,383.71 862.34	1,293.52
40 05 23 43-0522 Type 304, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 43-0392)		
40 05 23 43-0523 EA 1/2", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	54.63 14.75	22.13
40 05 23 43-0524 EA 3/4", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	59.59 15.66	23.48
40 05 23 43-0525 EA 1", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	65.46 17.21	25.81
40 05 23 43-0526 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	71.93 18.75	28.13
40 05 23 43-0527 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	77.66 20.71	31.07
40 05 23 43-0528 EA 2", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	84.37 23.04	34.56
40 05 23 43-0529 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	109.21 29.49	44.24
40 05 23 43-0530 EA 3", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	124.54 34.56	51.85
40 05 23 43-0531 EA 4", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	149.87 41.37	62.06
40 05 23 43-0532 EA 6", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	192.08 51.76	77.65
40 05 23 43-0533 EA 8", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	322.62 86.24	129.35
40 05 23 43-0534 EA 10", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	429.73 114.98	172.48
40 05 23 43-0535 EA 12", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	635.44 172.47	258.69
40 05 23 43-0536 EA 14", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	744.91 201.21	301.82
40 05 23 43-0537 EA 16", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	860.78 229.52	344.28
40 05 23 43-0538 EA 18", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,085.28 287.45	431.17
40 05 23 43-0539 EA 20", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,503.05 402.43	603.64
40 05 23 43-0540 EA 24", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,201.12 574.90	862.34
40 05 23 43-0541 Type 304, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 43-0231)		
40 05 23 43-0542 Type 304, Schedule 40 Stainless Steel Pipe (40 05 23 43-0541)		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23	43-0543	LF	1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	16.68 2.33	3.88
40 05 23	43-0544	LF	3/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	20.28 2.85	4.75
40 05 23	43-0545	LF	1" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	24.83 3.34	5.60
40 05 23	43-0546	LF	1-1/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	31.03 4.18	6.90
40 05 23	43-0547	LF	1-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	35.73 4.71	7.76
40 05 23	43-0548	LF	2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	45.75 5.83	9.92
40 05 23	43-0549	LF	2-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	56.71 6.66	11.22
40 05 23	43-0550	LF	3" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	55.38 7.50	12.51
40 05 23	43-0551	LF	4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	91.04 8.88	14.66
40 05 23	43-0552	LF	6" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	141.50 11.66	19.41
40 05 23	43-0553	LF	8" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	249.13 21.95	33.98
40 05 23	43-0554	LF	10" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	315.09 24.14	37.56
40 05 23	43-0555	LF	12" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	392.47 26.83	41.59
40 05 23 43-0556 Type 304, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 43-0541)					
40 05 23	43-0557	EA	1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	102.04 29.50	44.26
40 05 23	43-0558	EA	3/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	108.08 31.31	46.97
40 05 23	43-0559	EA	1", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	118.77 34.42	51.63
40 05 23	43-0560	EA	1-1/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	129.38 37.51	56.26
40 05 23	43-0561	EA	1-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	142.83 41.42	62.13
40 05 23	43-0562	EA	2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	160.30 46.08	69.13
40 05 23	43-0563	EA	2-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	210.50 58.98	88.47
40 05 23	43-0564	EA	3", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	248.20 69.13	103.69
40 05 23	43-0565	EA	4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	305.19 82.74	124.11
40 05 23	43-0566	EA	6", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	465.09 103.36	155.04
40 05 23	43-0567	EA	8", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	762.13 172.47	258.70
40 05 23	43-0568	EA	10", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,156.76 229.96	344.93
40 05 23	43-0569	EA	12", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,702.54 344.94	517.41
40 05 23	43-0570	EA	14", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,016.17 402.43	603.64
40 05 23	43-0571	EA	16", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,390.36 459.05	688.56
40 05 23	43-0572	EA	18", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,066.84 574.90	862.35
40 05 23	43-0573	EA	20", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,189.36 804.85	1,207.28
40 05 23	43-0574	EA	24", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,002.84 1,149.79	1,724.69
40 05 23 43-0575 Type 304, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 43-0541)					
40 05 23	43-0576	EA	1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	103.27 29.50	44.26
40 05 23	43-0577	EA	3/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	109.31 31.31	46.97
40 05 23	43-0578	EA	1", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	119.65 34.42	51.63
40 05 23	43-0579	EA	1-1/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	130.28 37.51	56.26
40 05 23	43-0580	EA	1-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	143.71 41.42	62.13
40 05 23	43-0581	EA	2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	160.49 46.08	69.13
40 05 23	43-0582	EA	2-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	210.50 58.98	88.47



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0583 EA 3", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	243.27 69.13	103.69
40 05 23 43-0584 EA 4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	307.83 82.74	124.11
40 05 23 43-0585 EA 6", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	405.07 103.36	155.04
40 05 23 43-0586 EA 8", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	699.21 172.47	258.70
40 05 23 43-0587 EA 10", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	999.57 229.96	344.93
40 05 23 43-0588 EA 12", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,470.65 344.94	517.41
40 05 23 43-0589 EA 14", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,677.06 402.43	603.64
40 05 23 43-0590 EA 16", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,986.61 459.05	688.56
40 05 23 43-0591 EA 18", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,503.56 574.90	862.35
40 05 23 43-0592 EA 20", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,429.30 804.85	1,207.28
40 05 23 43-0593 EA 24", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,963.31 1,149.79	1,724.69
 40 05 23 43-0594 Type 304, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 43-0541)		
40 05 23 43-0595 EA 1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	135.37 37.50	56.25
40 05 23 43-0596 EA 3/4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	163.82 46.03	69.05
40 05 23 43-0597 EA 1", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	182.78 51.72	77.59
40 05 23 43-0598 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	209.14 58.98	88.47
40 05 23 43-0599 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	221.42 63.31	94.97
40 05 23 43-0600 EA 2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	241.44 69.05	103.58
40 05 23 43-0601 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	307.48 82.74	124.11
40 05 23 43-0602 EA 3", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	368.33 103.69	155.54
40 05 23 43-0603 EA 4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	420.46 116.37	174.56
40 05 23 43-0604 EA 6", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	621.05 155.16	232.74
40 05 23 43-0605 EA 8", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,028.45 229.96	344.93
40 05 23 43-0606 EA 10", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,699.32 344.94	517.41
40 05 23 43-0607 EA 12", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,115.26 431.17	646.75
40 05 23 43-0608 EA 14", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,802.35 518.15	777.22
40 05 23 43-0609 EA 16", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,533.08 632.08	948.12
40 05 23 43-0610 EA 18", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,563.62 804.85	1,207.28
40 05 23 43-0611 EA 20", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	5,911.40 1,059.02	1,588.53
40 05 23 43-0612 EA 24", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	9,038.67 1,609.71	2,414.56
 40 05 23 43-0613 Type 304, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 43-0541)		
40 05 23 43-0614 EA 3/4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	123.97 31.33	46.99
40 05 23 43-0615 EA 1", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	147.51 38.39	57.59
40 05 23 43-0616 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	186.28 43.13	64.70
40 05 23 43-0617 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	188.90 49.17	73.77
40 05 23 43-0618 EA 2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	195.68 52.84	79.26
40 05 23 43-0619 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	233.68 57.59	86.37
40 05 23 43-0620 EA 3", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	264.75 69.02	103.54
40 05 23 43-0621 EA 4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	344.94 86.27	129.41
40 05 23 43-0622 EA 6", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	460.57 98.57	147.86
40 05 23 43-0623 EA 8", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	748.03 143.72	215.58

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0624 EA 10", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,340.17 191.63	287.45
40 05 23 43-0625 EA 12", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,940.12 287.45	431.17
40 05 23 43-0626 EA 14", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,228.55 345.33	518.00
40 05 23 43-0627 EA 16", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,753.51 421.24	631.86
40 05 23 43-0628 EA 18", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,548.21 536.57	804.86
40 05 23 43-0629 EA 20", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,988.48 706.01	1,059.01
40 05 23 43-0630 EA 24", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	7,770.86 1,072.19	1,608.27
40 05 23 43-0631 Type 304, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 43-0641)		
40 05 23 43-0632 EA 3/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	102.71 28.49	42.74
40 05 23 43-0633 EA 1", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	112.64 31.05	46.57
40 05 23 43-0634 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	123.04 34.42	51.63
40 05 23 43-0635 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	133.30 37.51	56.26
40 05 23 43-0636 EA 2", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	144.94 41.42	62.13
40 05 23 43-0637 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	189.79 51.76	77.65
40 05 23 43-0638 EA 3", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	208.57 58.93	88.40
40 05 23 43-0639 EA 4", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	242.32 69.05	103.58
40 05 23 43-0640 EA 6", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	324.72 87.91	131.86
40 05 23 43-0641 EA 8", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	538.43 137.98	206.97
40 05 23 43-0642 EA 10", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	695.60 172.47	258.70
40 05 23 43-0643 EA 12", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	910.60 229.96	344.93
40 05 23 43-0644 EA 14", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,313.26 301.82	452.73
40 05 23 43-0645 EA 16", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,536.93 343.95	515.93
40 05 23 43-0646 EA 18", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,001.35 431.17	646.75
40 05 23 43-0647 EA 20", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,724.60 574.90	862.35
40 05 23 43-0648 EA 24", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,832.15 862.34	1,293.52
40 05 23 43-0649 EA 3/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	118.21 28.49	42.74
40 05 23 43-0650 EA 1", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	126.72 31.05	46.57
40 05 23 43-0651 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	143.90 34.42	51.63
40 05 23 43-0652 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	153.19 37.51	56.26
40 05 23 43-0653 EA 2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	164.83 41.42	62.13
40 05 23 43-0654 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	201.76 51.76	77.65
40 05 23 43-0655 EA 3", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	248.53 58.93	88.40
40 05 23 43-0656 EA 4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	275.24 69.05	103.58
40 05 23 43-0657 EA 6", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	370.83 87.91	131.86
40 05 23 43-0658 EA 8", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	580.62 137.98	206.97
40 05 23 43-0659 EA 10", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	780.57 172.47	258.70
40 05 23 43-0660 EA 12", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,061.14 229.96	344.93
40 05 23 43-0661 EA 14", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,682.26 301.82	452.73
40 05 23 43-0662 EA 16", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,909.35 343.95	515.93
40 05 23 43-0663 EA 18", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,483.15 431.17	646.75
40 05 23 43-0664 EA 20", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,237.77 574.90	862.35



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Stainless Steel Process Pipe and Tubing 40 05 23

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	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0665	EA			24", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	5,112.70 862.34	1,293.52
40 05 23 43-0666				Type 304, Schedule 40 Stainless Steel Butt Weld Caps <small>(40 05 23 43-0541)</small>		
40 05 23 43-0667	EA			1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	55.15 14.75	22.13
40 05 23 43-0668	EA			3/4", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	59.06 15.66	23.48
40 05 23 43-0669	EA			1", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	65.98 17.21	25.81
40 05 23 43-0670	EA			1-1/4", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	74.29 18.75	28.13
40 05 23 43-0671	EA			1-1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	79.95 20.71	31.07
40 05 23 43-0672	EA			2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	84.19 23.04	34.56
40 05 23 43-0673	EA			2-1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	108.03 29.49	44.24
40 05 23 43-0674	EA			3", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	125.24 34.56	51.85
40 05 23 43-0675	EA			4", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	151.98 41.37	62.06
40 05 23 43-0676	EA			6", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	205.10 51.76	77.65
40 05 23 43-0677	EA			8", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	343.53 86.24	129.35
40 05 23 43-0678	EA			10", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	459.30 114.98	172.48
40 05 23 43-0679	EA			12", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	691.80 172.47	258.69
40 05 23 43-0680	EA			14", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	796.53 201.21	301.82
40 05 23 43-0681	EA			16", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	931.79 229.52	344.28
40 05 23 43-0682	EA			18", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,169.44 287.45	431.17
40 05 23 43-0683	EA			20", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,615.28 402.43	603.64
40 05 23 43-0684	EA			24", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,388.77 574.90	862.34
40 05 23 43-0685				Type 316, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings <small>(40 05 23 43-0231)</small>		
40 05 23 43-0686				Type 316, Schedule 10 Stainless Steel Pipe <small>(40 05 23 43-0685)</small>		
40 05 23 43-0687	LF			1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	17.16 2.33	3.88
40 05 23 43-0688	LF			3/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	20.37 2.85	4.75
40 05 23 43-0689	LF			1" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	27.34 3.34	5.60
40 05 23 43-0690	LF			1-1/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	33.29 4.18	6.99
40 05 23 43-0691	LF			1-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	36.99 4.71	7.86
40 05 23 43-0692	LF			2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	45.73 5.83	9.75
40 05 23 43-0693	LF			2-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	54.91 6.66	11.13
40 05 23 43-0694	LF			3" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	65.09 7.50	12.51
40 05 23 43-0695	LF			4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	82.20 8.88	14.83
40 05 23 43-0696	LF			6" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	120.96 11.66	19.50
40 05 23 43-0697	LF			8" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	198.89 21.95	34.17
40 05 23 43-0698	LF			10" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	257.51 24.14	37.56
40 05 23 43-0699	LF			12" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	310.08 26.83	41.76
40 05 23 43-0700	LF			14" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	384.02 30.18	46.95
40 05 23 43-0701	LF			16" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	421.71 34.49	53.66
40 05 23 43-0702	LF			18" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	471.05 40.24	62.60
40 05 23 43-0703	LF			20" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	660.80 48.29	75.12
40 05 23 43-0704	LF			24" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	864.12 60.36	93.90

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0705 Type 316, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 43-0685)		
40 05 23 43-0706 EA 1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	102.21	44.26
For Work In Restricted Working Space, Add	29.50	
40 05 23 43-0707 EA 3/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	108.25	46.97
For Work In Restricted Working Space, Add	31.31	
40 05 23 43-0708 EA 1", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	119.30	51.63
For Work In Restricted Working Space, Add	34.42	
40 05 23 43-0709 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	130.53	56.26
For Work In Restricted Working Space, Add	37.51	
40 05 23 43-0710 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	143.54	62.13
For Work In Restricted Working Space, Add	41.42	
40 05 23 43-0711 EA 2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	160.30	69.13
For Work In Restricted Working Space, Add	46.08	
40 05 23 43-0712 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	208.22	88.47
For Work In Restricted Working Space, Add	58.98	
40 05 23 43-0713 EA 3", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	244.85	103.69
For Work In Restricted Working Space, Add	69.13	
40 05 23 43-0714 EA 4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	299.03	124.11
For Work In Restricted Working Space, Add	82.74	
40 05 23 43-0715 EA 6", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	406.48	155.04
For Work In Restricted Working Space, Add	103.36	
40 05 23 43-0716 EA 8", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	688.95	258.70
For Work In Restricted Working Space, Add	172.47	
40 05 23 43-0717 EA 10", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	1,015.33	344.93
For Work In Restricted Working Space, Add	229.96	
40 05 23 43-0718 EA 12", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	1,522.92	517.41
For Work In Restricted Working Space, Add	344.94	
40 05 23 43-0719 EA 14", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	1,776.91	603.64
For Work In Restricted Working Space, Add	402.43	
40 05 23 43-0720 EA 16", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	2,104.93	688.56
For Work In Restricted Working Space, Add	459.05	
40 05 23 43-0721 EA 18", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	2,648.01	862.35
For Work In Restricted Working Space, Add	574.90	
40 05 23 43-0722 EA 20", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	3,699.62	1,207.28
For Work In Restricted Working Space, Add	804.85	
40 05 23 43-0723 EA 24", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....	5,316.00	1,724.69
For Work In Restricted Working Space, Add	1,149.79	
40 05 23 43-0724 Type 316, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 43-0685)		
40 05 23 43-0725 EA 1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	103.27	44.26
For Work In Restricted Working Space, Add	29.50	
40 05 23 43-0726 EA 3/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	109.31	46.97
For Work In Restricted Working Space, Add	31.31	
40 05 23 43-0727 EA 1", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	120.35	51.63
For Work In Restricted Working Space, Add	34.42	
40 05 23 43-0728 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	131.94	56.26
For Work In Restricted Working Space, Add	37.51	
40 05 23 43-0729 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	143.54	62.13
For Work In Restricted Working Space, Add	41.42	
40 05 23 43-0730 EA 2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	160.30	69.13
For Work In Restricted Working Space, Add	46.08	
40 05 23 43-0731 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	207.16	88.47
For Work In Restricted Working Space, Add	58.98	
40 05 23 43-0732 EA 3", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	243.27	103.69
For Work In Restricted Working Space, Add	69.13	
40 05 23 43-0733 EA 4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	295.34	124.11
For Work In Restricted Working Space, Add	82.74	
40 05 23 43-0734 EA 6", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	384.66	155.04
For Work In Restricted Working Space, Add	103.36	
40 05 23 43-0735 EA 8", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	649.79	258.70
For Work In Restricted Working Space, Add	172.47	
40 05 23 43-0736 EA 10", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	999.57	344.93
For Work In Restricted Working Space, Add	229.96	
40 05 23 43-0737 EA 12", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	1,470.65	517.41
For Work In Restricted Working Space, Add	344.94	
40 05 23 43-0738 EA 14", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	1,727.92	603.64
For Work In Restricted Working Space, Add	402.43	
40 05 23 43-0739 EA 16", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	2,015.13	688.56
For Work In Restricted Working Space, Add	459.05	
40 05 23 43-0740 EA 18", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	2,542.25	862.35
For Work In Restricted Working Space, Add	574.90	
40 05 23 43-0741 EA 20", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	3,604.60	1,207.28
For Work In Restricted Working Space, Add	804.85	
40 05 23 43-0742 EA 24", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	5,189.44	1,724.69
For Work In Restricted Working Space, Add	1,149.79	
40 05 23 43-0743 Type 316, Schedule 10 Stainless Steel Butt Weld Tees (40 05 23 43-0685)		
40 05 23 43-0744 EA 1/2", Type 316, Schedule 10 Stainless Steel Tee.....	136.96	56.25
For Work In Restricted Working Space, Add	37.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0745 EA 3/4", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	165.41 46.03	69.05
40 05 23 43-0746 EA 1", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	184.37 51.72	77.59
40 05 23 43-0747 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	211.58 58.98	88.47
40 05 23 43-0748 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	224.06 63.31	94.97
40 05 23 43-0749 EA 2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	243.56 69.05	103.58
40 05 23 43-0750 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	295.51 82.74	124.11
40 05 23 43-0751 EA 3", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	370.45 103.69	155.54
40 05 23 43-0752 EA 4", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	424.33 116.37	174.56
40 05 23 43-0753 EA 6", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	615.77 155.16	232.74
40 05 23 43-0754 EA 8", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,005.07 229.96	344.93
40 05 23 43-0755 EA 10", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,559.03 344.94	517.41
40 05 23 43-0756 EA 12", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,998.35 431.17	646.75
40 05 23 43-0757 EA 14", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,542.36 518.15	777.22
40 05 23 43-0758 EA 16", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,015.10 632.08	948.12
40 05 23 43-0759 EA 18", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,833.19 804.85	1,207.28
40 05 23 43-0760 EA 20", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	5,152.51 1,059.02	1,588.53
40 05 23 43-0761 EA 24", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	7,432.33 1,609.71	2,414.56
40 05 23 43-0762 Type 316, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 43-0685)		
40 05 23 43-0763 EA 3/4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	127.13 31.33	46.99
40 05 23 43-0764 EA 1", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	151.73 38.39	57.59
40 05 23 43-0765 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	183.20 43.13	64.70
40 05 23 43-0766 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	191.01 49.17	73.77
40 05 23 43-0767 EA 2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	203.24 52.84	79.26
40 05 23 43-0768 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	267.81 57.59	86.37
40 05 23 43-0769 EA 3", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	268.98 69.02	103.54
40 05 23 43-0770 EA 4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	357.96 86.27	129.41
40 05 23 43-0771 EA 6", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	491.02 98.57	147.86
40 05 23 43-0772 EA 8", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	917.40 143.72	215.58
40 05 23 43-0773 EA 10", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	1,632.52 191.63	287.45
40 05 23 43-0774 EA 12", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,162.32 287.45	431.17
40 05 23 43-0775 EA 14", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,472.36 345.33	518.00
40 05 23 43-0776 EA 16", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	3,058.85 421.24	631.86
40 05 23 43-0777 EA 18", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	3,946.39 536.57	804.86
40 05 23 43-0778 EA 20", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	5,584.76 706.01	1,059.01
40 05 23 43-0779 EA 24", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	8,720.54 1,072.19	1,608.27
40 05 23 43-0780 Type 316, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 43-0685)		
40 05 23 43-0781 EA 3/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	102.54 28.49	42.74
40 05 23 43-0782 EA 1", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	112.82 31.05	46.57
40 05 23 43-0783 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	125.73 34.42	51.63
40 05 23 43-0784 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	132.77 37.51	56.26
40 05 23 43-0785 EA 2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	144.94 41.42	62.13

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0786 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	189.05 51.76	77.65
40 05 23 43-0787 EA 3", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	219.13 58.93	88.40
40 05 23 43-0788 EA 4", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	243.58 69.05	103.58
40 05 23 43-0789 EA 6", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	331.94 87.91	131.86
40 05 23 43-0790 EA 8", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	517.56 137.98	206.97
40 05 23 43-0791 EA 10", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	665.39 172.47	258.70
40 05 23 43-0792 EA 12", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	889.70 229.96	344.93
40 05 23 43-0793 EA 14", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,244.76 301.82	452.73
40 05 23 43-0794 EA 16", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,440.18 343.95	515.93
40 05 23 43-0795 EA 18", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,787.40 431.17	646.75
40 05 23 43-0796 EA 20", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,489.69 574.90	862.35
40 05 23 43-0797 EA 24", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,643.27 862.34	1,293.52
40 05 23 43-0798 EA 3/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	116.22 28.49	42.74
40 05 23 43-0799 EA 1", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	129.07 31.05	46.57
40 05 23 43-0800 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	144.99 34.42	51.63
40 05 23 43-0801 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	155.30 37.51	56.26
40 05 23 43-0802 EA 2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	158.85 41.42	62.13
40 05 23 43-0803 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	208.27 51.76	77.65
40 05 23 43-0804 EA 3", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	238.85 58.93	88.40
40 05 23 43-0805 EA 4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	270.31 69.05	103.58
40 05 23 43-0806 EA 6", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	377.87 87.91	131.86
40 05 23 43-0807 EA 8", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	617.11 137.98	206.97
40 05 23 43-0808 EA 10", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	836.83 172.47	258.70
40 05 23 43-0809 EA 12", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,067.60 229.96	344.93
40 05 23 43-0810 EA 14", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,582.13 301.82	452.73
40 05 23 43-0811 EA 16", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,847.94 343.95	515.93
40 05 23 43-0812 EA 18", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,294.02 431.17	646.75
40 05 23 43-0813 EA 20", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,299.93 574.90	862.35
40 05 23 43-0814 EA 24", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,605.49 862.34	1,293.52
40 05 23 43-0815 Type 316, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 43-0665)		
40 05 23 43-0816 EA 1/2", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	56.91 14.75	22.13
40 05 23 43-0817 EA 3/4", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	62.58 15.66	23.48
40 05 23 43-0818 EA 1", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	68.62 17.21	25.81
40 05 23 43-0819 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	74.99 18.75	28.13
40 05 23 43-0820 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	81.36 20.71	31.07
40 05 23 43-0821 EA 2", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	86.48 23.04	34.56
40 05 23 43-0822 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	108.54 29.49	44.24
40 05 23 43-0823 EA 3", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	128.23 34.56	51.85
40 05 23 43-0824 EA 4", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	153.56 41.37	62.06
40 05 23 43-0825 EA 6", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	198.59 51.76	77.65
40 05 23 43-0826 EA 8", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	334.21 86.24	129.35



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0827 EA 10", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	443.81 114.98	172.48
40 05 23 43-0828 EA 12", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	656.04 172.47	258.69
40 05 23 43-0829 EA 14", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	763.48 201.21	301.82
40 05 23 43-0830 EA 16", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	876.47 229.52	344.28
40 05 23 43-0831 EA 18", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,103.26 287.45	431.17
40 05 23 43-0832 EA 20", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,531.73 402.43	603.64
40 05 23 43-0833 EA 24", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,289.42 574.90	862.34
40 05 23 43-0834 Type 316, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 43-0834)		
40 05 23 43-0835 Type 316, Schedule 40 Stainless Steel Pipe (40 05 23 43-0834)		
40 05 23 43-0836 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	19.66 2.33	3.88
40 05 23 43-0837 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	23.88 2.85	4.75
40 05 23 43-0838 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	29.40 3.34	5.60
40 05 23 43-0839 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	36.75 4.18	6.90
40 05 23 43-0840 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	42.43 4.71	7.76
40 05 23 43-0841 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	54.56 5.83	9.92
40 05 23 43-0842 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	68.25 6.66	11.22
40 05 23 43-0843 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	65.54 7.50	12.51
40 05 23 43-0844 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	111.59 8.88	14.66
40 05 23 43-0845 LF 6" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	175.84 11.66	19.41
40 05 23 43-0846 LF 8" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	307.99 21.95	33.98
40 05 23 43-0847 LF 10" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	393.58 24.14	37.56
40 05 23 43-0848 LF 12" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	493.85 26.83	41.59
40 05 23 43-0849 Type 316, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 43-0834)		
40 05 23 43-0850 EA 1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	103.09 29.50	44.26
40 05 23 43-0851 EA 3/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	109.13 31.31	46.97
40 05 23 43-0852 EA 1", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	120.18 34.42	51.63
40 05 23 43-0853 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	130.92 37.51	56.26
40 05 23 43-0854 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	144.42 41.42	62.13
40 05 23 43-0855 EA 2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	162.41 46.08	69.13
40 05 23 43-0856 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	214.73 58.98	88.47
40 05 23 43-0857 EA 3", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	254.00 69.13	103.69
40 05 23 43-0858 EA 4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	319.10 82.74	124.11
40 05 23 43-0859 EA 6", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	476.88 103.36	155.04
40 05 23 43-0860 EA 8", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	823.71 172.47	258.70
40 05 23 43-0861 EA 10", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,309.95 229.96	344.93
40 05 23 43-0862 EA 12", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,879.32 344.94	517.41
40 05 23 43-0863 EA 14", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,113.30 402.43	603.64
40 05 23 43-0864 EA 16", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,544.11 459.05	688.56
40 05 23 43-0865 EA 18", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,240.31 574.90	862.35
40 05 23 43-0866 EA 20", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,396.27 804.85	1,207.28

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0867 EA 24", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	6,367.56 1,149.79	1,724.69
40 05 23 43-0868 Type 316, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 43-0834)		
40 05 23 43-0869 EA 1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	104.85 29.50	44.26
40 05 23 43-0870 EA 3/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	110.89 31.31	46.97
40 05 23 43-0871 EA 1", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	121.23 34.42	51.63
40 05 23 43-0872 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	131.43 37.51	56.26
40 05 23 43-0873 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	145.47 41.42	62.13
40 05 23 43-0874 EA 2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	162.41 46.08	69.13
40 05 23 43-0875 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	214.73 58.98	88.47
40 05 23 43-0876 EA 3", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	247.14 69.13	103.69
40 05 23 43-0877 EA 4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	306.07 82.74	124.11
40 05 23 43-0878 EA 6", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	423.38 103.36	155.04
40 05 23 43-0879 EA 8", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	729.44 172.47	258.70
40 05 23 43-0880 EA 10", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,092.70 229.96	344.93
40 05 23 43-0881 EA 12", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,588.49 344.94	517.41
40 05 23 43-0882 EA 14", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,812.30 402.43	603.64
40 05 23 43-0883 EA 16", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,050.28 459.05	688.56
40 05 23 43-0884 EA 18", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,625.53 574.90	862.35
40 05 23 43-0885 EA 20", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,585.31 804.85	1,207.28
40 05 23 43-0886 EA 24", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	5,284.56 1,149.79	1,724.69
40 05 23 43-0887 Type 316, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 43-0834)		
40 05 23 43-0888 EA 1/2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	138.01 37.50	56.25
40 05 23 43-0889 EA 3/4", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	166.46 46.03	69.05
40 05 23 43-0890 EA 1", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	185.42 51.72	77.59
40 05 23 43-0891 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	213.11 58.98	88.47
40 05 23 43-0892 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	224.06 63.31	94.97
40 05 23 43-0893 EA 2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	244.26 69.05	103.58
40 05 23 43-0894 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	301.78 82.74	124.11
40 05 23 43-0895 EA 3", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	373.79 103.69	155.54
40 05 23 43-0896 EA 4", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	430.14 116.37	174.56
40 05 23 43-0897 EA 6", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	657.13 155.16	232.74
40 05 23 43-0898 EA 8", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,111.33 229.96	344.93
40 05 23 43-0899 EA 10", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,839.59 344.94	517.41
40 05 23 43-0900 EA 12", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,267.32 431.17	646.75
40 05 23 43-0901 EA 14", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,175.08 518.15	777.22
40 05 23 43-0902 EA 16", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,926.87 632.08	948.12
40 05 23 43-0903 EA 18", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	5,076.09 804.85	1,207.28
40 05 23 43-0904 EA 20", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	6,604.61 1,059.02	1,588.53
40 05 23 43-0905 EA 24", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	9,529.58 1,609.71	2,414.56
40 05 23 43-0906 Type 316, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 43-0834)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0907 EA 3/4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	130.48 31.33	46.99
40 05 23 43-0908 EA 1", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	154.02 38.39	57.59
40 05 23 43-0909 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	197.28 43.13	64.70
40 05 23 43-0910 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	196.47 49.17	73.77
40 05 23 43-0911 EA 2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	203.24 52.84	79.26
40 05 23 43-0912 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	268.86 57.59	86.37
40 05 23 43-0913 EA 3", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	276.54 69.02	103.54
40 05 23 43-0914 EA 4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	365.53 86.27	129.41
40 05 23 43-0915 EA 6", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	495.77 98.57	147.86
40 05 23 43-0916 EA 8", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	823.88 143.72	215.58
40 05 23 43-0917 EA 10", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,655.91 191.63	287.45
40 05 23 43-0918 EA 12", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,209.08 287.45	431.17
40 05 23 43-0919 EA 14", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,523.66 345.33	518.00
40 05 23 43-0920 EA 16", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,123.11 421.24	631.86
40 05 23 43-0921 EA 18", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,030.18 536.57	804.86
40 05 23 43-0922 EA 20", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	5,710.25 706.01	1,059.01
40 05 23 43-0923 EA 24", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	8,920.40 1,072.19	1,608.27
 40 05 23 43-0924 Type 316, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 43-0834)		
40 05 23 43-0925 EA 3/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	105.35 28.49	42.74
40 05 23 43-0926 EA 1", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	115.63 31.05	46.57
40 05 23 43-0927 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	127.01 34.42	51.63
40 05 23 43-0928 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	135.94 37.51	56.26
40 05 23 43-0929 EA 2", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	146.88 41.42	62.13
40 05 23 43-0930 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	195.24 51.76	77.65
40 05 23 43-0931 EA 3", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	212.27 58.93	88.40
40 05 23 43-0932 EA 4", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	246.02 69.05	103.58
40 05 23 43-0933 EA 6", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	333.17 87.91	131.86
40 05 23 43-0934 EA 8", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	554.39 137.98	206.97
40 05 23 43-0935 EA 10", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	734.76 172.47	258.70
40 05 23 43-0936 EA 12", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	939.50 229.96	344.93
40 05 23 43-0937 EA 14", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,339.62 301.82	452.73
40 05 23 43-0938 EA 16", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,541.13 343.95	515.93
40 05 23 43-0939 EA 18", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,039.57 431.17	646.75
40 05 23 43-0940 EA 20", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,759.42 574.90	862.35
40 05 23 43-0941 EA 24", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,983.87 862.34	1,293.52
40 05 23 43-0942 EA 3/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	125.24 28.49	42.74
40 05 23 43-0943 EA 1", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	133.76 31.05	46.57
40 05 23 43-0944 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	154.14 34.42	51.63
40 05 23 43-0945 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	160.76 37.51	56.26
40 05 23 43-0946 EA 2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	173.28 41.42	62.13
40 05 23 43-0947 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	208.27 51.76	77.65

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0948 EA 3", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	263.13 58.93	88.40
40 05 23 43-0949 EA 4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	289.67 69.05	103.58
40 05 23 43-0950 EA 6", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	404.80 87.91	131.86
40 05 23 43-0951 EA 8", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	607.99 137.98	206.97
40 05 23 43-0952 EA 10", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	852.61 172.47	258.70
40 05 23 43-0953 EA 12", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,175.19 229.96	344.93
40 05 23 43-0954 EA 14", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,735.61 301.82	452.73
40 05 23 43-0955 EA 16", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,997.01 343.95	515.93
40 05 23 43-0956 EA 18", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,662.75 431.17	646.75
40 05 23 43-0957 EA 20", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,437.44 574.90	862.35
40 05 23 43-0958 EA 24", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	5,153.63 862.34	1,293.52
40 05 23 43-0959 Type 316, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 43-0834)		
40 05 23 43-0960 EA 1/2", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	57.27 14.75	22.13
40 05 23 43-0961 EA 3/4", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	62.41 15.66	23.48
40 05 23 43-0962 EA 1", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	68.98 17.21	25.81
40 05 23 43-0963 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	78.25 18.75	28.13
40 05 23 43-0964 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	78.72 20.71	31.07
40 05 23 43-0965 EA 2", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	88.94 23.04	34.56
40 05 23 43-0966 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	111.74 29.49	44.24
40 05 23 43-0967 EA 3", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	128.76 34.56	51.85
40 05 23 43-0968 EA 4", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	157.44 41.37	62.06
40 05 23 43-0969 EA 6", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	214.78 51.76	77.65
40 05 23 43-0970 EA 8", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	364.63 86.24	129.35
40 05 23 43-0971 EA 10", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	488.57 114.98	172.48
40 05 23 43-0972 EA 12", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	729.24 172.47	258.69
40 05 23 43-0973 EA 14", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	834.42 201.21	301.82
40 05 23 43-0974 EA 16", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	940.02 229.52	344.28
40 05 23 43-0975 EA 18", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,196.31 287.45	431.17
40 05 23 43-0976 EA 20", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,648.87 402.43	603.64
40 05 23 43-0977 EA 24", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,517.53 574.90	862.34
40 05 23 43-0978 Valves (40 05 23 43-0231)		
40 05 23 43-0979 Gate Valves, Class 150 (40 05 23 43-0978)		
40 05 23 43-0980 EA 1/2" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	487.23 16.67 -115.47 405.76	44.45
40 05 23 43-0981 EA 3/4" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	529.47 19.45 -124.29 436.76	46.30
40 05 23 43-0982 EA 1" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	652.71 26.21 -151.23 531.42	69.46
40 05 23 43-0983 EA 1-1/4" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	822.75 30.20 -193.16 678.76	81.03



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0984 EA 1-1/2" Gate Valve, Stainless Steel, Flanged.....	927.95	102.00
<i>For Work In Restricted Working Space, Add</i>	38.25	
<i>For Class 200, Deduct</i>	-214.12	
<i>For Class 300, Add</i>	752.42	
40 05 23 43-0985 EA 2" Gate Valve, Stainless Steel, Flanged.....	1,101.62	123.44
<i>For Work In Restricted Working Space, Add</i>	46.31	
<i>For Class 200, Deduct</i>	-253.39	
<i>For Class 300, Add</i>	890.43	
40 05 23 43-0986 EA 2-1/2" Gate Valve, Stainless Steel, Flanged.....	1,581.63	134.28
<i>For Work In Restricted Working Space, Add</i>	50.51	
<i>For Class 300, Add</i>	1,328.46	
40 05 23 43-0987 EA 3" Gate Valve, Stainless Steel, Flanged.....	1,781.54	157.44
<i>For Work In Restricted Working Space, Add</i>	59.11	
<i>For Class 300, Add</i>	1,489.43	
40 05 23 43-0988 EA 4" Gate Valve, Stainless Steel, Flanged.....	2,357.69	263.93
<i>For Work In Restricted Working Space, Add</i>	99.22	
<i>For Class 300, Add</i>	1,905.33	
40 05 23 43-0989 EA 6" Gate Valve, Stainless Steel, Flanged.....	3,941.56	333.39
<i>For Work In Restricted Working Space, Add</i>	125.47	
<i>For Class 300, Add</i>	3,311.93	
40 05 23 43-0990 EA 8" Gate Valve, Stainless Steel, Flanged.....	8,591.96	426.00
<i>For Work In Restricted Working Space, Add</i>	158.76	
<i>For Class 300, Add</i>	7,579.00	
40 05 23 43-0991 EA 10" Gate Valve, Stainless Steel, Flanged.....	12,107.07	518.60
<i>For Work In Restricted Working Space, Add</i>	194.48	
<i>For Class 300, Add</i>	10,771.29	
40 05 23 43-0992 EA 12" Gate Valve, Stainless Steel, Flanged.....	18,224.70	629.73
<i>For Work In Restricted Working Space, Add</i>	235.73	
<i>For Class 300, Add</i>	16,392.59	
40 05 23 43-0993 Globe Valves, Class 150 <small>(40 05 23 43-0978)</small>		
40 05 23 43-0994 EA 1/2" Globe Valve, Stainless Steel, Flanged.....	665.35	44.45
<i>For Work In Restricted Working Space, Add</i>	16.67	
<i>For Class 200, Deduct</i>	-163.12	
<i>For Class 300, Add</i>	573.19	
40 05 23 43-0995 EA 3/4" Globe Valve, Stainless Steel, Flanged.....	736.46	46.30
<i>For Work In Restricted Working Space, Add</i>	19.45	
<i>For Class 200, Deduct</i>	-179.66	
<i>For Class 300, Add</i>	631.33	
40 05 23 43-0996 EA 1" Globe Valve, Stainless Steel, Flanged.....	918.07	69.46
<i>For Work In Restricted Working Space, Add</i>	26.21	
<i>For Class 200, Deduct</i>	-222.21	
<i>For Class 300, Add</i>	780.86	
40 05 23 43-0997 EA 1-1/2" Globe Valve, Stainless Steel, Flanged.....	1,364.72	102.00
<i>For Work In Restricted Working Space, Add</i>	38.25	
<i>For Class 200, Deduct</i>	-330.96	
<i>For Class 300, Add</i>	1,162.99	
40 05 23 43-0998 EA 2" Globe Valve, Stainless Steel, Flanged.....	1,665.54	123.44
<i>For Work In Restricted Working Space, Add</i>	46.31	
<i>For Class 200, Deduct</i>	-404.24	
<i>For Class 300, Add</i>	1,420.52	
40 05 23 43-0999 EA 2-1/2" Globe Valve, Stainless Steel, Flanged.....	3,349.83	134.28
<i>For Work In Restricted Working Space, Add</i>	50.51	
<i>For Class 300, Add</i>	2,990.56	
40 05 23 43-1000 EA 3" Globe Valve, Stainless Steel, Flanged.....	3,466.86	157.44
<i>For Work In Restricted Working Space, Add</i>	59.11	
<i>For Class 300, Add</i>	3,073.63	
40 05 23 43-1001 EA 4" Globe Valve, Stainless Steel, Flanged.....	4,130.79	263.93
<i>For Work In Restricted Working Space, Add</i>	99.22	
<i>For Class 300, Add</i>	3,572.05	
40 05 23 43-1002 EA 6" Globe Valve, Stainless Steel, Flanged.....	7,620.66	333.39
<i>For Work In Restricted Working Space, Add</i>	125.47	
<i>For Class 300, Add</i>	6,770.28	
40 05 23 43-1003 Check Valves, Class 150 <small>(40 05 23 43-0978)</small>		
40 05 23 43-1004 EA 2-1/2" Check Valve, Stainless Steel, Flanged.....	1,513.81	134.28
<i>For Work In Restricted Working Space, Add</i>	50.51	
<i>For Class 300, Add</i>	1,264.70	
40 05 23 43-1005 EA 3" Check Valve, Stainless Steel, Flanged.....	1,584.42	157.44
<i>For Work In Restricted Working Space, Add</i>	59.11	
<i>For Class 300, Add</i>	1,304.14	
40 05 23 43-1006 EA 4" Check Valve, Stainless Steel, Flanged.....	2,489.92	263.93
<i>For Work In Restricted Working Space, Add</i>	99.22	
<i>For Class 300, Add</i>	2,029.63	
40 05 23 43-1007 EA 6" Check Valve, Stainless Steel, Flanged.....	4,277.19	333.39
<i>For Work In Restricted Working Space, Add</i>	125.47	
<i>For Class 300, Add</i>	3,627.42	
40 05 23 43-1008 EA 8" Check Valve, Stainless Steel, Flanged.....	7,512.06	426.00
<i>For Work In Restricted Working Space, Add</i>	158.76	
<i>For Class 300, Add</i>	6,563.90	
40 05 23 43-1009 Stainless Steel Thread-O-Let Fittings <small>(40 05 23 43-0231)</small>		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1010	EA		1/2", Stainless Steel Thread-o-let Fitting.....	69.00	26.89
			<i>For Work In Restricted Working Space, Add</i>	17.93	
40 05 23 43-1011	EA		3/4", Stainless Steel Thread-o-let Fitting.....	91.23	35.84
			<i>For Work In Restricted Working Space, Add</i>	23.90	
40 05 23 43-1012	EA		1", Stainless Steel Thread-o-let Fitting.....	112.56	44.45
			<i>For Work In Restricted Working Space, Add</i>	29.64	
40 05 23 43-1013	EA		1-1/4", Stainless Steel Thread-o-let Fitting.....	161.16	62.89
			<i>For Work In Restricted Working Space, Add</i>	41.94	
40 05 23 43-1014	EA		1-1/2", Stainless Steel Thread-o-let Fitting.....	179.00	70.93
			<i>For Work In Restricted Working Space, Add</i>	47.29	
40 05 23 43-1015	EA		2", Stainless Steel Thread-o-let Fitting.....	224.58	90.10
			<i>For Work In Restricted Working Space, Add</i>	60.07	
40 05 23 43-1016	EA		2-1/2", Stainless Steel Thread-o-let Fitting.....	390.33	138.91
			<i>For Work In Restricted Working Space, Add</i>	92.61	
40 05 23 43-1017	EA		3", Stainless Steel Thread-o-let Fitting.....	518.53	177.33
			<i>For Work In Restricted Working Space, Add</i>	118.22	
40 05 23 43-1018	EA		4", Stainless Steel Thread-o-let Fitting.....	678.00	222.26
			<i>For Work In Restricted Working Space, Add</i>	148.17	
40 05 23 43-1019			Stainless Steel Flanges (40 05 23 43-0231)		
40 05 23 43-1020			150#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 43-1019)		
40 05 23 43-1021	EA		1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	45.79	14.93
			<i>For Work In Restricted Working Space, Add</i>	8.96	
40 05 23 43-1022	EA		3/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	57.51	19.92
			<i>For Work In Restricted Working Space, Add</i>	11.95	
40 05 23 43-1023	EA		1", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	69.20	24.69
			<i>For Work In Restricted Working Space, Add</i>	14.82	
40 05 23 43-1024	EA		1-1/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	95.00	34.95
			<i>For Work In Restricted Working Space, Add</i>	20.97	
40 05 23 43-1025	EA		1-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	103.92	39.41
			<i>For Work In Restricted Working Space, Add</i>	23.64	
40 05 23 43-1026	EA		2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	133.02	50.05
			<i>For Work In Restricted Working Space, Add</i>	30.04	
40 05 23 43-1027	EA		2-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	200.32	77.14
			<i>For Work In Restricted Working Space, Add</i>	46.31	
40 05 23 43-1028	EA		3", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	245.13	157.44
			<i>For Work In Restricted Working Space, Add</i>	59.11	
40 05 23 43-1029	EA		4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	312.73	123.44
			<i>For Work In Restricted Working Space, Add</i>	74.09	
40 05 23 43-1030			300#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 43-1019)		
40 05 23 43-1031	EA		1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	54.99	14.93
			<i>For Work In Restricted Working Space, Add</i>	8.96	
40 05 23 43-1032	EA		3/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	64.94	19.92
			<i>For Work In Restricted Working Space, Add</i>	11.95	
40 05 23 43-1033	EA		1", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	74.50	24.69
			<i>For Work In Restricted Working Space, Add</i>	14.82	
40 05 23 43-1034	EA		1-1/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	108.45	34.95
			<i>For Work In Restricted Working Space, Add</i>	20.97	
40 05 23 43-1035	EA		1-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	117.37	39.41
			<i>For Work In Restricted Working Space, Add</i>	23.64	
40 05 23 43-1036	EA		2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	146.80	50.05
			<i>For Work In Restricted Working Space, Add</i>	30.04	
40 05 23 43-1037	EA		2-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	231.09	77.14
			<i>For Work In Restricted Working Space, Add</i>	46.31	
40 05 23 43-1038	EA		3", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	276.60	157.44
			<i>For Work In Restricted Working Space, Add</i>	59.11	
40 05 23 43-1039	EA		4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	361.18	123.44
			<i>For Work In Restricted Working Space, Add</i>	74.09	
40 05 23 43-1040			150#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 43-1019)		
40 05 23 43-1041	EA		1/2", 150#, Type 304 Stainless Steel Weld Neck Flange.....	65.08	22.12
			<i>For Work In Restricted Working Space, Add</i>	14.75	
40 05 23 43-1042	EA		3/4", 150#, Type 304 Stainless Steel Weld Neck Flange.....	69.88	23.48
			<i>For Work In Restricted Working Space, Add</i>	15.66	
40 05 23 43-1043	EA		1", 150#, Type 304 Stainless Steel Weld Neck Flange.....	77.87	25.81
			<i>For Work In Restricted Working Space, Add</i>	17.21	
40 05 23 43-1044	EA		1-1/4", 150#, Type 304 Stainless Steel Weld Neck Flange.....	91.93	28.15
			<i>For Work In Restricted Working Space, Add</i>	18.77	
40 05 23 43-1045	EA		1-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange.....	98.33	31.03
			<i>For Work In Restricted Working Space, Add</i>	20.69	
40 05 23 43-1046	EA		2", 150#, Type 304 Stainless Steel Weld Neck Flange.....	109.36	34.57
			<i>For Work In Restricted Working Space, Add</i>	23.05	
40 05 23 43-1047	EA		2-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange.....	147.40	44.21
			<i>For Work In Restricted Working Space, Add</i>	29.47	
40 05 23 43-1048	EA		3", 150#, Type 304 Stainless Steel Weld Neck Flange.....	168.77	51.76
			<i>For Work In Restricted Working Space, Add</i>	34.51	
40 05 23 43-1049	EA		4", 150#, Type 304 Stainless Steel Weld Neck Flange.....	212.78	62.01
			<i>For Work In Restricted Working Space, Add</i>	41.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1050 EA 6", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	301.61 51.66	77.47
40 05 23 43-1051 EA 8", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	506.68 86.24	129.35
40 05 23 43-1052 EA 10", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	706.81 114.98	172.47
40 05 23 43-1053 EA 12", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,079.83 172.47	258.69
40 05 23 43-1054 EA 14", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,326.87 201.21	301.82
40 05 23 43-1055 EA 16", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,621.32 229.52	344.28
40 05 23 43-1056 EA 18", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,998.32 287.45	431.17
40 05 23 43-1057 EA 20", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,637.30 402.43	603.64
40 05 23 43-1058 EA 24", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,752.70 574.90	862.34
40 05 23 43-1059 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 43-1019)		
40 05 23 43-1060 EA 1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	76.05 14.75	22.12
40 05 23 43-1061 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	79.08 15.66	23.48
40 05 23 43-1062 EA 1" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	84.25 17.21	25.81
40 05 23 43-1063 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	104.29 18.77	28.15
40 05 23 43-1064 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	110.69 20.69	31.03
40 05 23 43-1065 EA 2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	119.97 23.05	34.57
40 05 23 43-1066 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	165.78 29.47	44.21
40 05 23 43-1067 EA 3" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	189.28 34.51	51.76
40 05 23 43-1068 EA 4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	260.86 41.34	62.01
40 05 23 43-1069 EA 6" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	356.06 51.66	77.47
40 05 23 43-1070 EA 8" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	642.46 86.24	129.35
40 05 23 43-1071 EA 10" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	886.09 114.98	172.47
40 05 23 43-1072 EA 12" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,307.56 172.47	258.69
40 05 23 43-1073 EA 14" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,686.87 201.21	301.82
40 05 23 43-1074 EA 16" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,051.84 229.52	344.28
40 05 23 43-1075 EA 18" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,611.35 287.45	431.17
40 05 23 43-1076 EA 20" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,421.65 402.43	603.64
40 05 23 43-1077 EA 24" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,964.09 574.90	862.34
40 05 23 43-1078 150#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 43-1019)		
40 05 23 43-1079 EA 1/2", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	112.48 29.50	44.25
40 05 23 43-1080 EA 3/4", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	118.88 31.31	46.97
40 05 23 43-1081 EA 1", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	130.64 34.42	51.63
40 05 23 43-1082 EA 1-1/4", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	146.71 37.54	56.31
40 05 23 43-1083 EA 1-1/2", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	159.50 41.38	62.06
40 05 23 43-1084 EA 2", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	181.59 46.09	69.14
40 05 23 43-1085 EA 2-1/2", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	235.73 58.94	88.41
40 05 23 43-1086 EA 3", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	272.12 69.01	103.51
40 05 23 43-1087 EA 4", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	332.91 82.69	124.03
40 05 23 43-1088 EA 6", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	431.72 103.31	154.96
40 05 23 43-1089 EA 8", 150#, Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	740.04 172.47	258.69
40 05 23 43-1090 EA 10" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	1,022.88 229.96	344.93

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1091 EA 12" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,528.50 344.94	517.40
40 05 23 43-1092 300#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 43-1019)		
40 05 23 43-1093 EA 1/2" 300#, Type 304 Stainless Steel Raised Neck Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	119.56 29.50	44.25
40 05 23 43-1094 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	125.60 31.31	46.97
40 05 23 43-1095 EA 1" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	135.95 34.42	51.63
40 05 23 43-1096 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	157.68 37.54	56.31
40 05 23 43-1097 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	170.47 41.38	62.06
40 05 23 43-1098 EA 2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	189.00 46.09	69.14
40 05 23 43-1099 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	263.32 58.94	88.41
40 05 23 43-1100 EA 3" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	299.70 69.01	103.51
40 05 23 43-1101 EA 4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	371.09 82.69	124.03
40 05 23 43-1102 EA 6" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	539.56 103.31	154.96
40 05 23 43-1103 EA 8" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	848.94 172.47	258.69
40 05 23 43-1104 EA 10" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,198.27 229.96	344.93
40 05 23 43-1105 EA 12" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,754.10 344.94	517.40
40 05 23 43-1106 150#, Type 304 Stainless Steel Blind Flanges (40 05 23 43-1019)		
40 05 23 43-1107 EA 1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	34.76 5.90	8.84
40 05 23 43-1108 EA 3/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	36.43 6.26	9.38
40 05 23 43-1109 EA 1", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	39.57 6.88	10.32
40 05 23 43-1110 EA 1-1/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	49.23 7.66	11.49
40 05 23 43-1111 EA 1-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	58.21 10.35	15.53
40 05 23 43-1112 EA 2", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	67.66 11.49	17.24
40 05 23 43-1113 EA 2-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	90.98 14.78	22.16
40 05 23 43-1114 EA 3", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	114.99 20.71	31.06
40 05 23 43-1115 EA 4", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	179.36 34.50	51.75
40 05 23 43-1116 EA 6", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	241.93 44.36	66.54
40 05 23 43-1117 EA 8", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	351.06 53.66	80.48
40 05 23 43-1118 EA 10", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	513.78 64.39	96.58
40 05 23 43-1119 EA 12", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	673.15 80.48	120.73
40 05 23 43-1120 EA 14", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	853.27 100.61	150.91
40 05 23 43-1121 EA 16", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,079.31 114.76	172.14
40 05 23 43-1122 EA 18", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,287.64 143.72	215.58
40 05 23 43-1123 EA 20", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,725.19 201.21	301.82
40 05 23 43-1124 EA 24", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,504.48 287.45	431.17
40 05 23 43-1125 300#, Type 304 Stainless Steel Blind Flanges (40 05 23 43-1019)		
40 05 23 43-1126 EA 1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	41.96 5.90	8.84
40 05 23 43-1127 EA 3/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	43.17 6.26	9.38
40 05 23 43-1128 EA 1", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	45.23 6.88	10.32
40 05 23 43-1129 EA 1-1/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	55.94 7.66	11.49
40 05 23 43-1130 EA 1-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	64.92 10.35	15.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1131 EA 2", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	71.20 11.49	17.24
40 05 23 43-1132 EA 2-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	115.73 14.78	22.16
40 05 23 43-1133 EA 3", 300#, Type 304 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	138.15 20.71	31.06
40 05 23 43-1134 EA 4", 300#, Type 304 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	208.35 34.50	51.75
40 05 23 43-1135 EA 6", 300#, Type 304 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	361.44 44.36	66.54
40 05 23 43-1136 EA 8", 300#, Type 304 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	493.91 53.66	80.48
40 05 23 43-1137 EA 10", 300#, Type 304 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	687.74 64.39	96.58
40 05 23 43-1138 EA 12", 300#, Type 304 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	940.12 80.48	120.73
40 05 23 43-1139 EA 14", 300#, Type 304 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	1,298.54 100.61	150.91
40 05 23 43-1140 EA 16", 300#, Type 304 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	1,641.48 114.76	172.14
40 05 23 43-1141 EA 18", 300#, Type 304 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	2,133.70 143.72	215.58
40 05 23 43-1142 EA 20", 300#, Type 304 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	2,728.99 201.21	301.82
40 05 23 43-1143 EA 24", 300#, Type 304 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	4,155.49 287.45	431.17
40 05 23 43-1144 150#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 43-1019)		
40 05 23 43-1145 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	52.17 8.96	14.93
40 05 23 43-1146 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	65.65 11.95	19.92
40 05 23 43-1147 EA 1", 150#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	76.96 14.82	24.69
40 05 23 43-1148 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	106.66 20.97	34.95
40 05 23 43-1149 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	115.58 23.64	39.41
40 05 23 43-1150 EA 2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	145.75 30.04	50.05
40 05 23 43-1151 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	218.71 46.31	77.14
40 05 23 43-1152 EA 3", 150#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	268.83 59.11	157.44
40 05 23 43-1153 EA 4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	345.97 74.09	123.44
40 05 23 43-1154 300#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 43-1019)		
40 05 23 43-1155 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	64.19 8.96	14.93
40 05 23 43-1156 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	74.14 11.95	19.92
40 05 23 43-1157 EA 1", 300#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	83.70 14.82	24.69
40 05 23 43-1158 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	126.13 20.97	34.95
40 05 23 43-1159 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	135.05 23.64	39.41
40 05 23 43-1160 EA 2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	162.36 30.04	50.05
40 05 23 43-1161 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	266.09 46.31	77.14
40 05 23 43-1162 EA 3", 300#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	312.32 59.11	157.44
40 05 23 43-1163 EA 4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	418.10 74.09	123.44
40 05 23 43-1164 150#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 43-1019)		
40 05 23 43-1165 EA 1/2", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	73.21 14.75	22.12
40 05 23 43-1166 EA 3/4", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	78.02 15.66	23.48
40 05 23 43-1167 EA 1", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	87.07 17.21	25.81
40 05 23 43-1168 EA 1-1/4", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	103.95 18.77	28.15
40 05 23 43-1169 EA 1-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	110.35 20.69	31.03
40 05 23 43-1170 EA 2", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	121.73 23.05	34.57

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1171 EA 2-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	168.25 29.47	44.21
40 05 23 43-1172 EA 3", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	187.51 34.51	51.76
40 05 23 43-1173 EA 4", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	244.60 41.34	62.01
40 05 23 43-1174 EA 6", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	356.78 51.66	77.47
40 05 23 43-1175 EA 8", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	591.90 86.24	129.35
40 05 23 43-1176 EA 10", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	848.97 114.98	172.47
40 05 23 43-1177 EA 12", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,267.61 172.47	258.69
40 05 23 43-1178 EA 14", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,482.39 201.21	301.82
40 05 23 43-1179 EA 16", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,824.27 229.52	344.28
40 05 23 43-1180 EA 18", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,244.85 287.45	431.17
40 05 23 43-1181 EA 20", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,944.44 402.43	603.64
40 05 23 43-1182 EA 24", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,187.95 574.90	862.34
40 05 23 43-1183 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 43-1019)		
40 05 23 43-1184 EA 1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	86.65 14.75	22.12
40 05 23 43-1185 EA 3/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	89.68 15.66	23.48
40 05 23 43-1186 EA 1" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	94.85 17.21	25.81
40 05 23 43-1187 EA 1-1/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	118.81 18.77	28.15
40 05 23 43-1188 EA 1-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	125.21 20.69	31.03
40 05 23 43-1189 EA 2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	137.65 23.05	34.57
40 05 23 43-1190 EA 2-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	196.19 29.47	44.21
40 05 23 43-1191 EA 3" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	217.92 34.51	51.76
40 05 23 43-1192 EA 4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	313.89 41.34	62.01
40 05 23 43-1193 EA 6" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	487.25 51.66	77.47
40 05 23 43-1194 EA 8" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	776.49 86.24	129.35
40 05 23 43-1195 EA 10" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,103.20 114.98	172.47
40 05 23 43-1196 EA 12" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,626.50 172.47	258.69
40 05 23 43-1197 EA 14" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,150.75 201.21	301.82
40 05 23 43-1198 EA 16" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,639.25 229.52	344.28
40 05 23 43-1199 EA 18" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,366.04 287.45	431.17
40 05 23 43-1200 EA 20" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,371.29 402.43	603.64
40 05 23 43-1201 EA 24" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	6,355.41 574.90	862.34
40 05 23 43-1202 150#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 43-1019)		
40 05 23 43-1203 EA 1/2", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	116.73 29.50	44.25
40 05 23 43-1204 EA 3/4", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	125.26 31.31	46.97
40 05 23 43-1205 EA 1", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	137.95 34.42	51.63
40 05 23 43-1206 EA 1-1/4", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	173.36 37.54	56.31
40 05 23 43-1207 EA 1-1/2", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	167.99 41.38	62.06
40 05 23 43-1208 EA 2", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	183.70 46.09	69.14
40 05 23 43-1209 EA 2-1/2", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	234.32 58.94	88.41
40 05 23 43-1210 EA 3", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	284.14 69.01	103.51
40 05 23 43-1211 EA 4", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	358.36 82.69	124.03



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1212 EA 6", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	469.54 103.31	154.96
40 05 23 43-1213 EA 8", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	818.17 172.47	258.69
40 05 23 43-1214 EA 10" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,129.67 229.96	344.93
40 05 23 43-1215 EA 12" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,671.35 344.94	517.40
40 05 23 43-1216 300#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 43-1019)		
40 05 23 43-1217 EA 1/2" 300#, Type 316 Stainless Steel Raised Neck Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	126.63 29.50	44.25
40 05 23 43-1218 EA 3/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	132.67 31.31	46.97
40 05 23 43-1219 EA 1" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	143.02 34.42	51.63
40 05 23 43-1220 EA 1-1/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	171.46 37.54	56.31
40 05 23 43-1221 EA 1-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	184.25 41.38	62.06
40 05 23 43-1222 EA 2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	202.04 46.09	69.14
40 05 23 43-1223 EA 2-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	294.08 58.94	88.41
40 05 23 43-1224 EA 3" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	331.16 69.01	103.51
40 05 23 43-1225 EA 4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	419.88 82.69	124.03
40 05 23 43-1226 EA 6" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	610.64 103.31	154.96
40 05 23 43-1227 EA 8" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	922.14 172.47	258.69
40 05 23 43-1228 EA 10" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,436.59 229.96	344.93
40 05 23 43-1229 EA 12" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,964.14 344.94	517.40
40 05 23 43-1230 150#, Type 316 Stainless Steel Blind Flanges (40 05 23 43-1019)		
40 05 23 43-1231 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	38.06 5.90	8.84
40 05 23 43-1232 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	42.45 6.26	9.38
40 05 23 43-1233 EA 1", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	47.69 6.88	10.32
40 05 23 43-1234 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	55.59 7.66	11.49
40 05 23 43-1235 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	64.57 10.35	15.53
40 05 23 43-1236 EA 2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	78.27 11.49	17.24
40 05 23 43-1237 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	107.60 14.78	22.16
40 05 23 43-1238 EA 3", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	133.38 20.71	31.06
40 05 23 43-1239 EA 4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	210.47 34.50	51.75
40 05 23 43-1240 EA 6", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	291.79 44.36	66.54
40 05 23 43-1241 EA 8", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	470.21 53.66	80.48
40 05 23 43-1242 EA 10", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	607.84 64.39	96.58
40 05 23 43-1243 EA 12", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	944.37 80.48	120.73
40 05 23 43-1244 EA 14", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,130.95 100.61	150.91
40 05 23 43-1245 EA 16", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,452.87 114.76	172.14
40 05 23 43-1246 EA 18", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,721.14 143.72	215.58
40 05 23 43-1247 EA 20", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,290.53 201.21	301.82
40 05 23 43-1248 EA 24", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,333.52 287.45	431.17
40 05 23 43-1249 300#, Type 316 Stainless Steel Blind Flanges (40 05 23 43-1019)		
40 05 23 43-1250 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	53.98 5.90	8.84
40 05 23 43-1251 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	55.19 6.26	9.38

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1252 EA 1", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	57.25 6.88	10.32
40 05 23 43-1253 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	81.77 7.66	11.49
40 05 23 43-1254 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	90.75 10.35	15.53
40 05 23 43-1255 EA 2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	100.54 11.49	17.24
40 05 23 43-1256 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	161.00 14.78	22.16
40 05 23 43-1257 EA 3", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	184.30 20.71	31.06
40 05 23 43-1258 EA 4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	286.14 34.50	51.75
40 05 23 43-1259 EA 6", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	494.06 44.36	66.54
40 05 23 43-1260 EA 8", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	631.12 53.66	80.48
40 05 23 43-1261 EA 10", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,086.61 64.39	96.58
40 05 23 43-1262 EA 12", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,328.02 80.48	120.73
40 05 23 43-1263 EA 14", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,894.34 100.61	150.91
40 05 23 43-1264 EA 16", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,420.22 114.76	172.14
40 05 23 43-1265 EA 18", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,157.18 143.72	215.58
40 05 23 43-1266 EA 20", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,002.17 201.21	301.82
40 05 23 43-1267 EA 24", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	6,133.24 287.45	431.17
40 05 23 43-1268 Type 316 Seamless Annealed Tubing (40 05 23 43) Note: For high pressure air (8000 PSIG working pressure).		
40 05 23 43-1269 Type 316 Seamless Annealed Tubing (40 05 23 43-1268)		
40 05 23 43-1270 LF 3/8" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .065 Wall Thickness.....	16.91	
40 05 23 43-1271 LF 1/2" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .083 Wall Thickness.....	20.96	
40 05 23 43-1272 LF 3/4" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .120 Wall Thickness.....	25.33	
40 05 23 43-1273 Type 316 Seamless Annealed Tubing Fittings (40 05 23 43-1268) Note: Pressure rating 5000 PSI minimum. Includes front and back ferrules.		
40 05 23 43-1274 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Connector With Front And Back Ferrules	55.93	
40 05 23 43-1275 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Elbow With Front And Back Ferrules	61.17	
40 05 23 43-1276 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Tee With Front And Back Ferrules.....	93.95	
40 05 23 43-1277 EA 3/8" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	48.92	
40 05 23 43-1278 EA 3/8" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	80.78	
40 05 23 43-1279 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Connector With Front And Back Ferrules	61.32	
40 05 23 43-1280 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Elbow With Front And Back Ferrules	75.60	
40 05 23 43-1281 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	116.37	
40 05 23 43-1282 EA 1/2" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	73.93	
40 05 23 43-1283 EA 1/2" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	114.33	
40 05 23 43-1284 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Connector With Front And Back Ferrules	72.82	
40 05 23 43-1285 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Elbow With Front And Back Ferrules	93.94	
40 05 23 43-1286 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	155.28	
40 05 23 43-1287 EA 3/4" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	128.04	
40 05 23 43-1288 EA 3/4" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules.....	157.87	
40 05 23 43-1289 Valves For High Pressure Air (5,000 PSIG) (40 05 23 43-1268)		
40 05 23 43-1290 Needle Valves (40 05 23 43-1289)		
40 05 23 43-1291 EA 3/8" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	289.13	
40 05 23 43-1292 EA 1/2" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	458.92	
40 05 23 43-1293 Safety Valve (Code Stamped) Work Pressure, 6,000 PSIG (40 05 23 43-1289)		
40 05 23 43-1294 EA 1/4" NPT Inlet, Safety Valve Spring Loaded 316 Stainless Steel Construction.....	277.09	
40 05 23 43-1295 Other Valves Working Pressure 6,000 PSI (40 05 23 43-1289)		
40 05 23 43-1296 EA 1/4" NPT Pressure Reducing Valve Spring Loaded, Stainless Steel Body, 6,000 PSIG.....	1,148.28	
40 05 23 43-1297 EA 1/4" NPT Pressure Gauge, Liquid Filled, 6,000 PSIG, Blow Out Back	288.21	
40 05 23 43-1298 EA Snubber 316 Stainless Steel Body, Rated For Design Pressure With Sinterec Element.....	55.86	



Process Interconnections	40	40
Common Work Results For Process Interconnections	40 05	
Stainless Steel Process Pipe and Tubing	40 05 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 40

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 23 Stainless Steel Process Pipe and Tubing



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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Process Gas and Liquid Handling, Purification, and Storage Equipment	43	43
Liquid Handling Equipment	43 20	
Dry Location Liquid Pumps	43 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
43 Process Gas and Liquid Handling, Purification, and Storage Equipment		
43 20 Liquid Handling Equipment ⁽⁴³⁾		
43 23 Dry Location Liquid Pumps ^(43 20)		
43 23 78 Controlled Volume Horizontal Reciprocating Pumps ^(43 23)		
43 23 78 31 Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps ^(43 23 78)		
43 23 78 31-0001 Diaphragm Pump ^(43 23 78 31)		
43 23 78 31-0002 EA 28 GPH Diaphragm Pump, Adjustable Flow 0-100% 250 PSI.....	2,724.59	
43 24 Suspended Liquid Pumps ^(43 20)		
43 24 41 Archimedes Screw Pumps ^(43 24)		
43 24 41 23 Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps ^(43 24 41)		
43 24 41 23-0001 Positive Displacement Pump ^(43 24 41 23)		
43 24 41 23-0002 EA 25 GPH Positive Displacement Pump, Adjustable Flow 0-100% 200 PSI Neoprene Packing.....	2,251.83	
43 40 Gas and Liquid Storage ⁽⁴³⁾		
43 42 Pressurized Tanks And Vessels ^(43 40)		
43 42 41 Metallic Specialty Pressure Tanks ^(43 42)		
43 42 41 00-0001 L.P.G. Tanks With Regulator And Safety Controls ^(43 42 41)		
43 42 41 00-0002 EA 250 Gallon Aboveground LP Gas Storage Tank.....	1,248.13	105.64
43 42 41 00-0003 EA 500 Gallon Aboveground LP Gas Storage Tank.....	2,287.87	158.45
43 42 41 00-0004 EA 1,000 Gallon Aboveground LP Gas Storage Tank.....	3,243.11	169.01

END OF SECTION 43

43 Process Gas and Liquid Handling, Purification, and Storage Equipment

43 40 Gas and Liquid Storage

43 42 Pressurized Tanks And Vessels

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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50 Custom Standards And Assemblies

50 89 Custom Standards And Assemblies ⁽⁵⁰⁾

50 89 80 CALTRAN Construction Performance Requirements ^(50 89)

Note: Refer to www.dot.ca.gov for CALTRANS Standard Plans and Specifications

50 89 82 CALTRAN DIVISION II - GENERAL CONSTRUCTION ^(50 89 82)

50 89 82 12 TEMPORARY TRAFFIC CONTROL ^(50 89 82)

Note: Includes flagging, apparel, temporary traffic control devices, and equipment for flaggers, must comply with the California MUTCD per CALTRAN Standard.

50 89 82 12-0001	EA	CALTRAN 120110 FLASHING ARROW SIGN.....	839.43
50 89 82 12-0002	EA	CALTRAN 120116 TYPE II BARRICADE	26.37
50 89 82 12-0003	EA	CALTRAN 120119 TRAFFIC CONE.....	8.04
50 89 82 12-0004	EA	CALTRAN 120120 TYPE III BARRICADE	49.94
50 89 82 12-0005	EA	CALTRAN 120140 BARRICADE (LEFT IN PLACE)	44.07
50 89 82 12-0006	SF	CALTRAN 120149 TEMPORARY PAVEMENT MARKING (PAINT)	2.59
50 89 82 12-0007	LF	CALTRAN 120151 TEMPORARY TRAFFIC STRIPE (TAPE).....	3.33
50 89 82 12-0008	SF	CALTRAN 120152 TEMPORARY PAVEMENT MARKING (TAPE)	7.87
50 89 82 12-0009	LF	CALTRAN 120159 TEMPORARY TRAFFIC STRIPE (PAINT).....	0.56
50 89 82 12-0010	EA	CALTRAN 120165 CHANNELIZER (SURFACE MOUNTED)	21.69
50 89 82 12-0011	EA	CALTRAN 120166 CHANNELIZER (SURFACE MOUNTED) (LEFT IN PLACE)	42.84
50 89 82 12-0012	EA	CALTRAN 120182 PORTABLE DELINEATOR	15.12
50 89 82 12-0013	EA	CALTRAN 120199 TRAFFIC PLASTIC DRUM	23.50
50 89 82 12-0014	EA	CALTRAN 120200 FLASHING BEACON (PORTABLE).....	26.75
50 89 82 12-0015	EA	CALTRAN 120300 TEMPORARY PAVEMENT MARKER.....	2.44
50 89 82 12-0016	MO	CALTRAN 128651 PORTABLE CHANGEABLE MESSAGE SIGN (EA)	1,616.14
50 89 82 12-0017	MO	CALTRAN 129100 TEMPORARY CRASH CUSHION MODULE	400.28

50 89 82 13 WATER POLLUTION CONTROL ^(50 89 82)

Note: Includes preventing, controlling, and abating water pollution within waters of the State per CALTRAN Standard.

50 89 82 13-0001	EA	CALTRAN 130310 RAIN EVENT ACTION PLAN.....	525.00
50 89 82 13-0002	EA	CALTRAN 130320 STORM WATER SAMPLING AND ANALYSIS DAY	403.00
50 89 82 13-0003	EA	CALTRAN 130330 STORM WATER ANNUAL REPORT	2,042.50
50 89 82 13-0004	SY	CALTRAN 130500 TEMPORARY EROSION CONTROL BLANKET	3.05
50 89 82 13-0005	EA	CALTRAN 130505 MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL).....	718.98
50 89 82 13-0006	SY	CALTRAN 130510 TEMPORARY MULCH.....	3.94
50 89 82 13-0007	SY	CALTRAN 130520 TEMPORARY HYDRAULIC MULCH	0.87
50 89 82 13-0008	SY	CALTRAN 130530 TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	0.30
50 89 82 13-0009	SY	CALTRAN 130535 TEMPORARY HYDRAULIC MULCH (CEMENTITIOUS BINDER)	10.40
50 89 82 13-0010	SY	CALTRAN 130540 TEMPORARY TACKED STRAW	0.25
50 89 82 13-0011	SY	CALTRAN 130550 TEMPORARY HYDROSEED	0.87
50 89 82 13-0012	SY	CALTRAN 130560 TEMPORARY SOIL BINDER	0.40
50 89 82 13-0013	SY	CALTRAN 130570 TEMPORARY COVER	5.56
50 89 82 13-0014	EA	CALTRAN 130620 TEMPORARY DRAINAGE INLET PROTECTION	65.83
50 89 82 13-0015	LF	CALTRAN 130640 TEMPORARY FIBER ROLL.....	7.56
		Note: Type 1	
		For >1,000 To 10,000, Deduct	-0.76
		For >10,000, Deduct	-1.30
50 89 82 13-0016	LF	CALTRAN 130640 TEMPORARY FIBER ROLL.....	6.14
		Note: Type 2	
		For >1,000 To 10,000, Deduct	-0.55
		For >10,000, Deduct	-0.94
50 89 82 13-0017	LF	CALTRAN 130650 TEMPORARY GRAVEL BAG BERM.....	8.99
50 89 82 13-0018	LF	CALTRAN 130670 TEMPORARY REINFORCED SILT FENCE	7.69
50 89 82 13-0019	LF	CALTRAN 130680 TEMPORARY SILT FENCE.....	2.15
50 89 82 13-0020	LF	CALTRAN 130690 TEMPORARY STRAW BALE BARRIER.....	3.97
50 89 82 13-0021	EA	CALTRAN 130710 TEMPORARY CONSTRUCTION ENTRANCE	1,424.56
50 89 82 13-0022	SY	CALTRAN 130720 TEMPORARY CONSTRUCTION ROADWAY	34.11
50 89 82 13-0023	EA	CALTRAN 131103 WATER QUALITY SAMPLING AND ANALYSIS DAY	403.00
50 89 82 13-0024	EA	CALTRAN 131104 WATER QUALITY MONITORING REPORT.....	692.50
50 89 82 13-0025	EA	CALTRAN 131105 WATER QUALITY ANNUAL REPORT.....	758.12

50 89 83 CALTRAN DIVISION III - GRADING ^(50 89 83)

50 89 83 17 GENERAL ^(50 89 83)

Note: Includes clear all construction areas above original ground of (1) all vegetation such as trees, logs, upturned stumps, roots of downed trees, brush, grass, and weeds and (2) other objectionable material including concrete, masonry, and debris. Grub all construction areas to a depth necessary to remove all trees, existing stumps, roots, buried logs, and other objectionable material, except embankment areas where the grading plane is 2 feet or more above original ground per CALTRAN Standard.

50 89 83 17-0001	ACR	CALTRAN 170105 CLEARING AND GRUBBING (ACRE).....	10,209.85
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Note: Includes grub and removal of stump



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

50 89 83 19

EARTHWORK (50 89 83)

Note: Includes earthwork activities includes removal of unsuitable material or a buried man-made object if the removal is described. Excavate and dispose of unsuitable material encountered below the natural ground surface in embankment areas or below the grading plane in excavation areas. Backfill the space resulting from excavating unsuitable material with material suitable for the planned use. Place and compact suitable material. Remove and dispose of a buried man-made object encountered in an excavation as part of the excavation work. Roadway excavation consists of all excavation involved in the grading and construction of the roadway except structure excavation per CALTRAN Standard.

50 89 83 19-0001	CY	CALTRAN 190161 ROCK EXCAVATION.....	27.06
50 89 83 19-0002	SY	CALTRAN 198206 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A1	2.64
		<i>For Up To 50, Add</i>	0.57
		<i>For >50 To 150, Add</i>	0.42
		<i>For >150 To 250, Add</i>	0.28
		<i>For >250 To 500, Add</i>	0.14
50 89 83 19-0003	SY	CALTRAN 198207 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A2	1.11
		<i>For Up To 50, Add</i>	0.26
		<i>For >50 To 150, Add</i>	0.19
		<i>For >150 To 250, Add</i>	0.12
		<i>For >250 To 500, Add</i>	0.06
50 89 83 19-0004	SY	CALTRAN 198208 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B1	3.06
		<i>For Up To 50, Add</i>	0.65
		<i>For >50 To 150, Add</i>	0.49
		<i>For >150 To 250, Add</i>	0.32
		<i>For >250 To 500, Add</i>	0.16
50 89 83 19-0005	SY	CALTRAN 198209 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B2	1.51
		<i>For Up To 50, Add</i>	0.34
		<i>For >50 To 150, Add</i>	0.25
		<i>For >150 To 250, Add</i>	0.16
		<i>For >250 To 500, Add</i>	0.08
50 89 83 19-0006	SY	CALTRAN 198210 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B3	1.44
		<i>For Up To 50, Add</i>	0.33
		<i>For >50 To 150, Add</i>	0.24
		<i>For >150 To 250, Add</i>	0.16
		<i>For >250 To 500, Add</i>	0.08
50 89 83 19-0007	SY	CALTRAN 198215 SUBGRADE ENHANCEMENT GEOGRID.....	2.43
		<i>For Up To 50, Add</i>	0.57
		<i>For >50 To 150, Add</i>	0.42
		<i>For >150 To 250, Add</i>	0.27
		<i>For >250 To 500, Add</i>	0.14
50 89 83 19-0008	SY	CALTRAN 198250 GEOSYNTHETIC REINFORCEMENT	1.91

50 89 83 20

LANDSCAPE (50 89 83)

Note: Includes materials and placement per CALTRAN Standard. Underground pipe includes pipe, fittings, trenching, backfill and compaction. Aboveground pipe include pipe, fittings and supports.

50 89 83 20-0001	SF	CALTRAN 200114 ROCK BLANKET	10.31
		<i>For >5,000, Deduct</i>	-1.51
50 89 83 20-0002	SY	CALTRAN 200122 WEED GERMINATION	0.52
50 89 83 20-0003	SY	CALTRAN 200123 CULTIVATION	2.30
50 89 83 20-0004	LB	CALTRAN 202004 IRON SULFATE (LB)	5.27
50 89 83 20-0005	CY	CALTRAN 202006 SOIL AMENDMENT	79.58
50 89 83 20-0006	EA	CALTRAN 202026 RELOCATE BACKFLOW PREVENTER ASSEMBLY	879.57
50 89 83 20-0007	EA	CALTRAN 202028 RELOCATE IRRIGATION CONTROLLER	1,122.06
50 89 83 20-0008	LB	CALTRAN 202037 ORGANIC FERTILIZER	5.31
50 89 83 20-0009	EA	CALTRAN 202038 PACKET FERTILIZER	0.87
50 89 83 20-0010	LB	CALTRAN 202039 SLOW-RELEASE FERTILIZER.....	2.28
50 89 83 20-0011	EA	CALTRAN 204003 PLANT (GROUP C) (6' To 8' B&B).....	368.05
50 89 83 20-0012	EA	CALTRAN 204003 PLANT (GROUP C) (10' To 14' B&B).....	694.69
50 89 83 20-0013	EA	CALTRAN 204003 PLANT (GROUP C) (16' To 20' B&B).....	1,088.24
50 89 83 20-0014	EA	CALTRAN 204003 PLANT (GROUP C) (22' To 26' B&B).....	1,711.61
50 89 83 20-0015	EA	CALTRAN 204005 PLANT (GROUP E).....	1.72
		<i>For >100 To 1,000, Deduct</i>	-0.11
		<i>For >1,000 To 5,000, Deduct</i>	-0.17
		<i>For >5,000, Deduct</i>	-0.22
50 89 83 20-0016	EA	CALTRAN 204006 PLANT (GROUP F)	1.63
		<i>For >100 To 1,000, Deduct</i>	-0.11
		<i>For >1,000 To 5,000, Deduct</i>	-0.17
		<i>For >5,000, Deduct</i>	-0.22
50 89 83 20-0017	EA	CALTRAN 204008 PLANT (GROUP H).....	5.26
		<i>For >10 To 100, Deduct</i>	-0.53
		<i>For >100 To 1,000, Deduct</i>	-1.18
		<i>For >1,000 To 10,000, Deduct</i>	-1.84
		<i>For >10,000 To 25,000, Deduct</i>	-2.63
		<i>For >25,000, Deduct</i>	-3.68
50 89 83 20-0018	EA	CALTRAN 204009 PLANT (GROUP I)	17.85
		<i>For >100 To 1,000, Deduct</i>	-1.24
		<i>For >1,000 To 5,000, Deduct</i>	-2.04
		<i>For >5,000, Deduct</i>	-2.49
50 89 83 20-0019	EA	CALTRAN 204011 PLANT (GROUP K).....	426.93
50 89 83 20-0020	EA	CALTRAN 204013 PLANT (GROUP M)	5.20
		<i>For >100 To 1,000, Deduct</i>	-0.31
		<i>For >1,000 To 5,000, Deduct</i>	-0.50
		<i>For >5,000, Deduct</i>	-0.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0021 EA CALTRAN 204015 PLANT (GROUP S).....	6.19	
<i>For >100 To 1,000, Deduct</i>	-0.40	
<i>For >1,000 To 5,000, Deduct</i>	-0.65	
<i>For >5,000, Deduct</i>	-0.81	
50 89 83 20-0022 EA CALTRAN 204020 PLANT (GROUP P).....	4.85	
<i>For >100 To 1,000, Deduct</i>	-0.29	
<i>For >1,000 To 5,000, Deduct</i>	-0.45	
<i>For >5,000, Deduct</i>	-0.57	
50 89 83 20-0023 EA CALTRAN 204030 TRANSPLANT TREE.....	3,118.52	
<i>For >5 To 10, Deduct</i>	-155.93	
<i>For >10 To 20, Deduct</i>	-311.85	
<i>For >20, Deduct</i>	-467.78	
50 89 83 20-0024 EA CALTRAN 204035 PLANT (GROUP A).....	23.72	
50 89 83 20-0025 EA CALTRAN 204036 PLANT (GROUP B).....	60.01	
50 89 83 20-0026 EA CALTRAN 204038 PLANT (GROUP U).....	155.14	
50 89 83 20-0027 SY CALTRAN 204045 SOD.....	20.91	
50 89 83 20-0028 SF CALTRAN 205033 GRAVEL MULCH.....	0.83	
50 89 83 20-0029 SF CALTRAN 205034 DECOMPOSED GRANITE.....	0.89	
50 89 83 20-0030 CY CALTRAN 205035 WOOD MULCH.....	89.47	
<i>For >5 To 20, Deduct</i>	-7.30	
<i>For >20 To 50, Deduct</i>	-10.95	
<i>For >50, Deduct</i>	-15.42	
50 89 83 20-0031 EA CALTRAN 205051 FOLIAGE PROTECTOR.....	33.57	
50 89 83 20-0032 EA CALTRAN 205052 ROOT PROTECTOR.....	23.44	
50 89 83 20-0033 LF CALTRAN 205062 ROOT BARRIER.....	8.35	
50 89 83 20-0034 LF CALTRAN 206005 EDGING.....	11.08	
50 89 83 20-0035 EA CALTRAN 206562 1" REMOTE CONTROL VALVE.....	424.38	
50 89 83 20-0036 EA CALTRAN 206563 1 1/4" REMOTE CONTROL VALVE.....	455.02	
50 89 83 20-0037 EA CALTRAN 206564 1 1/2" REMOTE CONTROL VALVE.....	488.29	
50 89 83 20-0038 EA CALTRAN 206565 2" REMOTE CONTROL VALVE.....	532.10	
50 89 83 20-0039 EA CALTRAN 206566 2 1/2" REMOTE CONTROL VALVE.....	773.10	
50 89 83 20-0040 EA CALTRAN 206567 3" REMOTE CONTROL VALVE.....	1,014.11	
50 89 83 20-0041 EA CALTRAN 206571 REMOTE CONTROL VALVE WITH PRESSURE REGULATOR.....	580.13	
50 89 83 20-0042 EA CALTRAN 206630 3/4" WYE STRAINER ASSEMBLY.....	248.85	
50 89 83 20-0043 EA CALTRAN 206631 1" WYE STRAINER ASSEMBLY.....	274.08	
50 89 83 20-0044 EA CALTRAN 206632 1 1/4" WYE STRAINER ASSEMBLY.....	311.13	
50 89 83 20-0045 EA CALTRAN 206633 1 1/2" WYE STRAINER ASSEMBLY.....	333.82	
50 89 83 20-0046 EA CALTRAN 206634 2" WYE STRAINER ASSEMBLY.....	408.82	
50 89 83 20-0047 EA CALTRAN 206635 2-1/2" WYE STRAINER ASSEMBLY.....	651.82	
50 89 83 20-0048 EA CALTRAN 206636 3" WYE STRAINER ASSEMBLY.....	653.30	
50 89 83 20-0049 EA CALTRAN 206747 4 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	532.13	
50 89 83 20-0050 EA CALTRAN 206749 8 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	776.82	
50 89 83 20-0051 EA CALTRAN 206751 12 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	1,081.82	
50 89 83 20-0052 EA CALTRAN 206757 16-18 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	1,407.18	
50 89 83 20-0053 EA CALTRAN 206758 24-32 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	1,824.82	
50 89 83 20-0054 EA CALTRAN 206759 30-42 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	2,241.16	
50 89 83 20-0055 LF CALTRAN 207050 1/2" COPPER PIPE (SUPPLY LINE).....	7.81	
<i>For >1,000, Deduct</i>	-0.39	
50 89 83 20-0056 LF CALTRAN 207051 3/4" COPPER PIPE (SUPPLY LINE).....	10.05	
<i>For >1,000, Deduct</i>	-0.50	
50 89 83 20-0057 LF CALTRAN 207052 1" COPPER PIPE (SUPPLY LINE).....	12.28	
<i>For >1,000, Deduct</i>	-0.61	
50 89 83 20-0058 LF CALTRAN 207053 1 1/4" COPPER PIPE (SUPPLY LINE).....	15.84	
<i>For >1,000, Deduct</i>	-0.79	
50 89 83 20-0059 LF CALTRAN 207054 1 1/2" COPPER PIPE (SUPPLY LINE).....	18.93	
<i>For >1,000, Deduct</i>	-0.95	
50 89 83 20-0060 LF CALTRAN 207055 2" COPPER PIPE (SUPPLY LINE).....	25.39	
<i>For >1,000, Deduct</i>	-1.27	
50 89 83 20-0061 LF CALTRAN 207056 3" COPPER PIPE (SUPPLY LINE).....	48.78	
<i>For >1,000, Deduct</i>	-2.44	
50 89 83 20-0062 LF CALTRAN 207057 4" COPPER PIPE (SUPPLY LINE).....	75.60	
<i>For >1,000, Deduct</i>	-3.78	
50 89 83 20-0063 LF CALTRAN 207058 2 1/2" COPPER PIPE (SUPPLY LINE).....	32.99	
<i>For >1,000, Deduct</i>	-1.65	
50 89 83 20-0064 LF CALTRAN 208001 1/2" GALVANIZED PIPE (SUPPLY LINE).....	9.56	
<i>For >1,000, Deduct</i>	-0.48	
50 89 83 20-0065 LF CALTRAN 208002 3/4" GALVANIZED PIPE (SUPPLY LINE).....	11.10	
<i>For >1,000, Deduct</i>	-0.56	
50 89 83 20-0066 LF CALTRAN 208003 1" GALVANIZED PIPE (SUPPLY LINE).....	12.97	
<i>For >1,000, Deduct</i>	-0.65	
50 89 83 20-0067 LF CALTRAN 208004 1 1/4" GALVANIZED PIPE (SUPPLY LINE).....	15.30	
<i>For >1,000, Deduct</i>	-0.77	
50 89 83 20-0068 LF CALTRAN 208005 1 1/2" GALVANIZED PIPE (SUPPLY LINE).....	17.81	
<i>For >1,000, Deduct</i>	-0.89	
50 89 83 20-0069 LF CALTRAN 208006 2" GALVANIZED PIPE (SUPPLY LINE).....	22.53	
<i>For >1,000, Deduct</i>	-1.13	
50 89 83 20-0070 LF CALTRAN 208007 2 1/2" GALVANIZED PIPE (SUPPLY LINE).....	34.71	
<i>For >1,000, Deduct</i>	-1.74	
50 89 83 20-0071 LF CALTRAN 208008 3" GALVANIZED PIPE (SUPPLY LINE).....	48.39	
<i>For >1,000, Deduct</i>	-2.42	
50 89 83 20-0072 LF CALTRAN 208009 4" GALVANIZED PIPE (SUPPLY LINE).....	74.66	
<i>For >1,000, Deduct</i>	-3.73	
50 89 83 20-0073 LF CALTRAN 208026 2" SUPPLY LINE (BRIDGE).....	35.85	
50 89 83 20-0074 LF CALTRAN 208027 2 1/2" SUPPLY LINE (BRIDGE).....	43.83	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

50 89 83 20-0075	LF	CALTRAN 208028 3" SUPPLY LINE (BRIDGE).....	53.11	
50 89 83 20-0076	LF	CALTRAN 208029 4" SUPPLY LINE (BRIDGE).....	77.21	
50 89 83 20-0077	LF	CALTRAN 208030 6" SUPPLY LINE (BRIDGE).....	192.41	
50 89 83 20-0078	LF	CALTRAN 208033 8" SUPPLY LINE (BRIDGE).....	428.23	
50 89 83 20-0079	LF	CALTRAN 208042 2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	26.94	
50 89 83 20-0080	LF	CALTRAN 208043 2 1/2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	39.48	
50 89 83 20-0081	LF	CALTRAN 208044 3" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	48.36	
50 89 83 20-0082	LF	CALTRAN 208046 4" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	75.74	
50 89 83 20-0083	LF	CALTRAN 208220 1/2" DRIP IRRIGATION TUBING.....	1.76	
50 89 83 20-0084	LF	CALTRAN 208221 3/4" DRIP IRRIGATION TUBING.....	1.85	
50 89 83 20-0085	EA	CALTRAN 208301 IRRIGATION CONTROLLER ENCLOSURE CABINET.....	2,433.30	
50 89 83 20-0086	EA	CALTRAN 208422 3/4" BACKFLOW PREVENTER ASSEMBLY.....	1,304.61	
50 89 83 20-0087	EA	CALTRAN 208423 1" BACKFLOW PREVENTER ASSEMBLY.....	1,382.91	
50 89 83 20-0088	EA	CALTRAN 208424 1 1/4" BACKFLOW PREVENTER ASSEMBLY.....	1,809.72	
50 89 83 20-0089	EA	CALTRAN 208425 1 1/2" BACKFLOW PREVENTER ASSEMBLY.....	1,974.55	
50 89 83 20-0090	EA	CALTRAN 208426 2" BACKFLOW PREVENTER ASSEMBLY.....	2,630.43	
50 89 83 20-0091	EA	CALTRAN 208427 2 1/2" BACKFLOW PREVENTER ASSEMBLY.....	5,697.77	
50 89 83 20-0092	EA	CALTRAN 208428 3" BACKFLOW PREVENTER ASSEMBLY.....	6,600.84	
50 89 83 20-0093	EA	CALTRAN 208429 4" BACKFLOW PREVENTER ASSEMBLY.....	7,184.53	
50 89 83 20-0094	EA	CALTRAN 208440 BACKFLOW PREVENTER ENCLOSURE.....	1,799.75	
50 89 83 20-0095	EA	CALTRAN 208562 CAM COUPLER ASSEMBLY.....	345.61	
50 89 83 20-0096	EA	CALTRAN 208569 1/2" GATE VALVE.....	220.14	
50 89 83 20-0097	EA	CALTRAN 208570 3/4" GATE VALVE.....	236.28	
50 89 83 20-0098	EA	CALTRAN 208572 1" GATE VALVE.....	262.63	
50 89 83 20-0099	EA	CALTRAN 208573 1 1/4" GATE VALVE.....	294.31	
50 89 83 20-0100	EA	CALTRAN 208574 1 1/2" GATE VALVE.....	317.51	
50 89 83 20-0101	EA	CALTRAN 208575 2" GATE VALVE.....	368.27	
50 89 83 20-0102	EA	CALTRAN 208576 2 1/2" GATE VALVE.....	634.30	
50 89 83 20-0103	EA	CALTRAN 208588 3" GATE VALVE.....	598.16	
50 89 83 20-0104	EA	CALTRAN 208589 4" GATE VALVE.....	810.72	
50 89 83 20-0105	EA	CALTRAN 208590 6" GATE VALVE.....	1,077.25	
50 89 83 20-0106	EA	CALTRAN 208591 8" GATE VALVE.....	1,535.91	
50 89 83 20-0107	LF	CALTRAN 208593 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	4.97	
		<i>For >1,000, Deduct</i>	-0.25	
50 89 83 20-0108	LF	CALTRAN 208594 3/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	5.10	
		<i>For >1,000, Deduct</i>	-0.26	
50 89 83 20-0109	LF	CALTRAN 208595 1" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	5.75	
		<i>For >1,000, Deduct</i>	-0.29	
50 89 83 20-0110	LF	CALTRAN 208596 1 1/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	6.80	
		<i>For >1,000, Deduct</i>	-0.34	
50 89 83 20-0111	LF	CALTRAN 208597 1 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	6.96	
		<i>For >1,000, Deduct</i>	-0.35	
50 89 83 20-0112	LF	CALTRAN 208598 2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	8.21	
		<i>For >1,000, Deduct</i>	-0.41	
50 89 83 20-0113	LF	CALTRAN 208599 2 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	9.91	
		<i>For >1,000, Deduct</i>	-0.50	
50 89 83 20-0114	LF	CALTRAN 208600 3" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	12.86	
		<i>For >1,000, Deduct</i>	-0.64	
50 89 83 20-0115	LF	CALTRAN 208601 4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	16.16	
		<i>For >1,000, Deduct</i>	-0.81	
50 89 83 20-0116	LF	CALTRAN 208602 6" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	22.12	
		<i>For >1,000, Deduct</i>	-1.11	
50 89 83 20-0117	LF	CALTRAN 208603 8" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	26.68	
		<i>For >1,000, Deduct</i>	-1.33	
50 89 83 20-0118	LF	CALTRAN 208604 10" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	54.23	
		<i>For >1,000, Deduct</i>	-2.71	
50 89 83 20-0119	LF	CALTRAN 208605 2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE).....	8.66	
		<i>For >1,000, Deduct</i>	-0.43	
50 89 83 20-0120	LF	CALTRAN 208606 2 1/2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE).....	10.63	
		<i>For >1,000, Deduct</i>	-0.53	
50 89 83 20-0121	LF	CALTRAN 208607 3" PLASTIC PIPE (CLASS 315) (SUPPLY LINE).....	12.86	
		<i>For >1,000, Deduct</i>	-0.64	
50 89 83 20-0122	LF	CALTRAN 208608 4" PLASTIC PIPE (CLASS 315) (SUPPLY LINE).....	16.16	
		<i>For >1,000, Deduct</i>	-0.81	
50 89 83 20-0123	LF	CALTRAN 208609 6" PLASTIC PIPE (CLASS 315) (SUPPLY LINE).....	22.44	
		<i>For >1,000, Deduct</i>	-1.12	
50 89 83 20-0124	EA	CALTRAN 208631 3/4" PRESSURE RELIEF VALVE.....	678.16	
50 89 83 20-0125	EA	CALTRAN 208632 1 1/2" PRESSURE RELIEF VALVE.....	1,024.96	
50 89 83 20-0126	EA	CALTRAN 208633 1" PRESSURE RELIEF VALVE.....	808.00	
50 89 83 20-0127	EA	CALTRAN 208634 2" PRESSURE RELIEF VALVE.....	1,167.70	
50 89 83 20-0128	EA	CALTRAN 208640 PRESSURE REGULATING VALVE (3/4").....	250.38	
50 89 83 20-0129	EA	CALTRAN 208640 PRESSURE REGULATING VALVE (1").....	331.29	
50 89 83 20-0130	EA	CALTRAN 208640 PRESSURE REGULATING VALVE (1-1/4").....	572.18	
50 89 83 20-0131	EA	CALTRAN 208640 PRESSURE REGULATING VALVE (1-1/2").....	777.87	
50 89 83 20-0132	EA	CALTRAN 208640 PRESSURE REGULATING VALVE (2").....	1,113.68	
50 89 83 20-0133	EA	CALTRAN 208649 QUICK COUPLING VALVE.....	336.92	
50 89 83 20-0134	EA	CALTRAN 208670 1/2" CHECK VALVE.....	233.48	
50 89 83 20-0135	EA	CALTRAN 208670 3/4" CHECK VALVE.....	252.98	
50 89 83 20-0136	EA	CALTRAN 208670 1" CHECK VALVE.....	280.00	
50 89 83 20-0137	EA	CALTRAN 208670 1 1/4" CHECK VALVE.....	321.59	
50 89 83 20-0138	EA	CALTRAN 208670 1 1/2" CHECK VALVE.....	365.65	
50 89 83 20-0139	EA	CALTRAN 208670 2" CHECK VALVE.....	422.96	
50 89 83 20-0140	EA	CALTRAN 208670 2 1/2" CHECK VALVE.....	692.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0141 EA CALTRAN 208670 3" CHECK VALVE.....	619.52	
50 89 83 20-0142 EA CALTRAN 208670 4" CHECK VALVE.....	898.22	
50 89 83 20-0143 EA CALTRAN 208670 6" CHECK VALVE.....	1,261.37	
50 89 83 20-0144 EA CALTRAN 208670 8" CHECK VALVE.....	2,456.20	
50 89 83 20-0145 EA CALTRAN 208683 1/2" BALL VALVE.....	200.07	
50 89 83 20-0146 EA CALTRAN 208683 1/2" BALL VALVE.....	221.19	
50 89 83 20-0147 EA CALTRAN 208683 1" BALL VALVE.....	228.92	
50 89 83 20-0148 EA CALTRAN 208683 1 1/4" BALL VALVE.....	255.08	
50 89 83 20-0149 EA CALTRAN 208683 1 1/2" BALL VALVE.....	268.61	
50 89 83 20-0150 EA CALTRAN 208683 2" BALL VALVE.....	296.87	
50 89 83 20-0151 EA CALTRAN 208683 2 1/2" BALL VALVE.....	337.09	
50 89 83 20-0152 LF CALTRAN 208690 PVC PIPE CONDUIT (SLEEVE).....	26.68	
For >1,000, Deduct	-1.33	
50 89 83 20-0153 LF CALTRAN 208702 8" ABS COMPOSITE PIPE CONDUIT.....	22.18	
For >1,000, Deduct	-1.11	
50 89 83 20-0154 LF CALTRAN 208703 10" ABS COMPOSITE PIPE CONDUIT.....	28.10	
For >1,000, Deduct	-1.41	
50 89 83 20-0155 LF CALTRAN 208738 8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT.....	19.45	
50 89 83 20-0156 LF CALTRAN 208739 10" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT.....	24.80	
50 89 83 20-0157 LF CALTRAN 208740 12" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT.....	28.82	
50 89 83 20-0158 LF CALTRAN 208756 6" CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	19.87	
50 89 83 20-0159 LF CALTRAN 208758 8" CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	24.60	
50 89 83 20-0160 LF CALTRAN 208760 10" CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	30.44	
50 89 83 20-0161 LF CALTRAN 208762 12" CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	34.20	
50 89 83 20-0162 LF CALTRAN 208813 1 1/4" WELDED STEEL PIPE CONDUIT.....	17.41	
For >1,000, Deduct	-0.87	
50 89 83 20-0163 LF CALTRAN 208814 1 1/2" WELDED STEEL PIPE CONDUIT.....	20.10	
For >1,000, Deduct	-1.01	
50 89 83 20-0164 LF CALTRAN 208815 2" WELDED STEEL PIPE CONDUIT.....	23.12	
For >1,000, Deduct	-1.16	
50 89 83 20-0165 LF CALTRAN 208816 3" WELDED STEEL PIPE CONDUIT.....	30.20	
For >1,000, Deduct	-1.51	
50 89 83 20-0166 LF CALTRAN 208817 4" WELDED STEEL PIPE CONDUIT.....	39.56	
For >1,000, Deduct	-1.98	
50 89 83 20-0167 LF CALTRAN 208818 6" WELDED STEEL PIPE CONDUIT.....	54.12	
For >1,000, Deduct	-2.71	
50 89 83 20-0168 LF CALTRAN 208819 8" WELDED STEEL PIPE CONDUIT.....	76.28	
For >1,000, Deduct	-3.81	
50 89 83 20-0169 LF CALTRAN 208820 10" WELDED STEEL PIPE CONDUIT.....	98.45	
For >1,000, Deduct	-4.92	
50 89 83 20-0170 LF CALTRAN 208821 12" WELDED STEEL PIPE CONDUIT.....	123.77	
For >1,000, Deduct	-6.19	

50 89 83 21 EROSION CONTROL (50 89 83)

Note: Includes applying permanent erosion control measures to the soil surface per CALTRAN Standard.

50 89 83 21-0001 EA CALTRAN 210010 MOVE-IN/MOVE-OUT (EROSION CONTROL).....	287.59	
50 89 83 21-0002 CY CALTRAN 210110 IMPORTED TOPSOIL (CY).....	61.12	
50 89 83 21-0003 TON CALTRAN 210111 IMPORTED TOPSOIL (TON).....	76.39	
50 89 83 21-0004 SF CALTRAN 210212 DRY SEED (SQFT).....	0.09	
50 89 83 21-0005 ACR CALTRAN 210213 DRY SEED (ACRE).....	3,924.94	
For >5 To 20, Deduct	-272.61	
For >20 To 45, Deduct	-523.46	
For >45, Deduct	-850.66	
50 89 83 21-0006 SY CALTRAN 210222 DRILL SEED (SQYD).....	0.34	
50 89 83 21-0007 ACR CALTRAN 210223 DRILL SEED (ACRE).....	1,647.24	
50 89 83 21-0008 SF CALTRAN 210252 BONDED FIBER MATRIX (SQFT).....	0.08	
50 89 83 21-0009 ACR CALTRAN 210253 BONDED FIBER MATRIX (ACRE).....	3,062.02	
50 89 83 21-0010 SF CALTRAN 210260 ROLLED EROSION CONTROL PRODUCT (JUTE MESH).....	0.20	
50 89 83 21-0011 SF CALTRAN 210270 ROLLED EROSION CONTROL PRODUCT (NETTING).....	0.89	
50 89 83 21-0012 SF CALTRAN 210280 ROLLED EROSION CONTROL PRODUCT (BLANKET).....	0.29	
50 89 83 21-0013 SF CALTRAN 210290 ROLLED EROSION CONTROL PRODUCT (TRM).....	0.99	
50 89 83 21-0014 LF CALTRAN 210360 COMPOST SOCK.....	7.09	
50 89 83 21-0015 SF CALTRAN 210300 HYDROMULCH.....	0.09	
50 89 83 21-0016 LF CALTRAN 210350 FIBER ROLL.....	7.56	
Note: Type 1		
For >1,000 To 10,000, Deduct	-0.76	
For >10,000, Deduct	-1.30	
50 89 83 21-0017 LF CALTRAN 210350 FIBER ROLL.....	6.14	
Note: Type 2		
For >1,000 To 10,000, Deduct	-0.55	
For >10,000, Deduct	-0.94	
50 89 83 21-0018 SF CALTRAN 210420 STRAW.....	0.16	
50 89 83 21-0019 SF CALTRAN 210430 HYDROSEED.....	0.09	
50 89 83 21-0020 CY CALTRAN 210610 COMPOST (CY).....	67.73	
For >100 To 1,000, Deduct	-11.86	
For >1,000, Deduct	-18.07	
50 89 83 21-0021 SF CALTRAN 210630 INCORPORATE MATERIALS.....	0.04	

50 89 84 CALTRAN DIVISION IV - SUBBASES AND BASES (50 89 80)

50 Custom Standards And Assemblies**50 89 Custom Standards And Assemblies****50 89 80 CALTRAN Construction Performance Requirements**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**50 89 84 25 AGGREGATE SUBBASES** (50 89 84)

Note: Includes aggregate, placing aggregate subbase, water, geosynthetic materials, spreading, compacting per CALTRAN Standard.

50 89 84 25-0001	CY	CALTRAN 250101 CLASS 1 AGGREGATE SUBBASE	59.42
50 89 84 25-0002	CY	CALTRAN 250201 CLASS 2 AGGREGATE SUBBASE	64.17
50 89 84 25-0003	CY	CALTRAN 250301 CLASS 3 AGGREGATE SUBBASE	62.31
50 89 84 25-0004	CY	CALTRAN 250401 CLASS 4 AGGREGATE SUBBASE	62.29
50 89 84 25-0005	CY	CALTRAN 250501 CLASS 5 AGGREGATE SUBBASE	62.27

50 89 84 26 AGGREGATE BASES (50 89 84)

Note: Includes aggregate, placing aggregate, water, geosynthetic materials, spreading, compacting per CALTRAN Standard.

50 89 84 26-0001	CY	CALTRAN 260200 AGGREGATE BASE	43.78
50 89 84 26-0002	TON	CALTRAN 260202 CLASS 2 AGGREGATE BASE (TON)	31.94
50 89 84 26-0003	CY	CALTRAN 260203 CLASS 2 AGGREGATE BASE (CY)	43.81
50 89 84 26-0004	TON	CALTRAN 260302 CLASS 3 AGGREGATE BASE (TON)	31.94
50 89 84 26-0005	CY	CALTRAN 260303 CLASS 3 AGGREGATE BASE (CY)	43.81

50 89 84 27 CEMENT TREATED BASES (50 89 84)

Note: Includes aggregate, Type II portland cement, mixing, placing cement treated base, spreading, compaction, contact joints and curing per CALTRAN Standard.

50 89 84 27-0001	TON	CALTRAN 270013 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (TON)	40.08
		<i>For Up To 500, Add</i>	11.82
		<i>For >500 To 1,000, Add</i>	4.01
		<i>For >5,000 To 10,000, Deduct</i>	-1.52
		<i>For >10,000, Deduct</i>	-2.61
50 89 84 27-0002	CY	CALTRAN 270014 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (CY)	53.96
		<i>For Up To 500, Add</i>	15.94
		<i>For >500 To 1,000, Add</i>	5.40
		<i>For >5,000 To 10,000, Deduct</i>	-2.05
		<i>For >10,000, Deduct</i>	-3.51
50 89 84 27-0003	TON	CALTRAN 270013 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (TON)	32.46
		<i>For Up To 500, Add</i>	9.54
		<i>For >500 To 1,000, Add</i>	3.25
		<i>For >5,000 To 10,000, Deduct</i>	-1.23
		<i>For >10,000, Deduct</i>	-2.11
50 89 84 27-0004	CY	CALTRAN 270014 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (CY)	46.32
		<i>For Up To 500, Add</i>	13.65
		<i>For >500 To 1,000, Add</i>	4.63
		<i>For >5,000 To 10,000, Deduct</i>	-1.76
		<i>For >10,000, Deduct</i>	-3.01

50 89 84 28 CONCRETE BASES (50 89 84)

Note: Includes constructing concrete bases and placing concrete per CALTRAN Standard.

50 89 84 28-0001	CY	CALTRAN 280001 CONCRETE BASE	211.16
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50 89 84 29 TREATED PERMEABLE BASES (50 89 84)

Note: Includes constructing treated permeable bases, spreading, and placement per CALTRAN Standard.

50 89 84 29-0001	CY	CALTRAN 290301 CEMENT TREATED PERMEABLE BASE	665.80
		<i>For >5,000 To 30,000, Deduct</i>	-73.34
		<i>For >30,000 To 100,000, Deduct</i>	-136.78
		<i>For >100,000, Deduct</i>	-169.81

50 89 84 30 RECLAIMED PAVEMENT (50 89 84)

Note: Includes constructing reclaimed pavement bases, surface preparation, grading, compaction, finishing and placement per CALTRAN Standard.

50 89 84 30-0001	SF	CALTRAN 300100 FULL DEPTH RECLAMATION-FOAMED ASPHALT	16.96
50 89 84 30-0002	SY	CALTRAN 303000 PULVERIZED ROADBED	3.94

50 89 85 CALTRAN DIVISION V - SURFACINGS AND PAVEMENTS (50 89 80)**50 89 85 37 BITUMINOUS SEALS** (50 89 85)

Note: Includes applying bituminous seals, surface preparation, placement, spreading, finishing and seal coat per CALTRAN Standard.

50 89 85 37-0001	LNMI	CALTRAN 374207 CRACK TREATMENT	5,022.73
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50 89 85 39 ASPHALT CONCRETE (50 89 85)

Note: Includes hot mix asphalt, preparation, placement, finishing, compaction and testing per CALTRAN Standard.

50 89 85 39-0001	TON	CALTRAN 390100 PRIME COAT	798.90
50 89 85 39-0002	TON	CALTRAN 390132 HOT MIX ASPHALT (TYPE A)	31.09
50 89 85 39-0003	TON	CALTRAN 390135 HOT MIX ASPHALT (LEVELING) (UP TO 25)	265.08
50 89 85 39-0004	TON	CALTRAN 390135 HOT MIX ASPHALT (LEVELING) (>25 - 100)	233.59
50 89 85 39-0005	TON	CALTRAN 390135 HOT MIX ASPHALT (LEVELING) (>100 - 250)	200.70
50 89 85 39-0006	TON	CALTRAN 390135 HOT MIX ASPHALT (LEVELING) (>250)	170.67
50 89 85 39-0007	TON	CALTRAN 390137 RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	162.69

Note: Includes placement, rolling, finishing and sweeping.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 39-0008 SY CALTRAN 393004 GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING FABRIC).....	0.94	
For Up To 50, Add	0.22	
For >50 To 150, Add	0.16	
For >150 To 250, Add	0.11	
For >250 To 500, Add	0.05	
50 89 85 39-0009 LF CALTRAN 394072 PLACE HOT MIX ASPHALT DIKE (TYPE B).....	8.33	
50 89 85 39-0010 LF CALTRAN 394073 PLACE HOT MIX ASPHALT DIKE (TYPE A).....	6.03	
50 89 85 39-0011 LF CALTRAN 394074 PLACE HOT MIX ASPHALT DIKE (TYPE C).....	3.04	
50 89 85 39-0012 LF CALTRAN 394075 PLACE HOT MIX ASPHALT DIKE (TYPE D).....	13.40	
50 89 85 39-0013 LF CALTRAN 394076 PLACE HOT MIX ASPHALT DIKE (TYPE E).....	8.68	
50 89 85 39-0014 LF CALTRAN 394077 PLACE HOT MIX ASPHALT DIKE (TYPE F).....	4.49	
50 89 85 39-0015 TON CALTRAN 395020 RUBBERIZED HOT MIX ASPHALT-GAP GRADED (BONDED WEARING COURSE).....	162.69	
50 89 85 39-0016 TON CALTRAN 397005 TACK COAT.....	496.57	
50 89 85 39-0017 SF CALTRAN 398001 REMOVE ASPHALT CONCRETE PAVEMENT (SQFT).....	2.30	
For >500 To 1,000, Deduct	-0.23	
For >1,000 To 2,500, Deduct	-0.41	
For >2,500 To 5,000, Deduct	-0.60	
For >5,000 To 10,000, Deduct	-0.78	
For >10,000, Deduct	-0.97	
50 89 85 39-0018 LF CALTRAN 398100 REMOVE ASPHALT CONCRETE DIKE.....	4.25	
 50 89 85 40 CONCRETE PAVEMENT (50 89 85)		
Note: Includes concrete pavement, reinforcing, placement, finishing, compaction and testing per CALTRAN Standard.		
50 89 85 40-0001 CY CALTRAN 400050 CONTINUOUSLY REINFORCED CONCRETE PAVEMENT.....	310.63	
For >1,000 To 5,000, Deduct	-14.15	
For >5,000, Deduct	-36.75	
50 89 85 40-0002 CY CALTRAN 401050 JOINTED PLAIN CONCRETE PAVEMENT.....	300.94	
For >1,000 To 5,000, Deduct	-14.15	
For >5,000, Deduct	-36.27	
 50 89 85 41 EXISTING CONCRETE PAVEMENT (50 89 85)		
Note: Includes work on existing concrete pavement, placement and finishing per CALTRAN Standard.		
50 89 85 41-0001 EA CALTRAN 410096 DRILL AND BOND (DOWEL BAR).....	23.22	
50 89 85 41-0002 SY CALTRAN 410121 SPALL REPAIR (FAST-SETTING CONCRETE).....	329.56	
For Up To 100, Add	436.46	
For >100 To 250, Add	218.23	
50 89 85 41-0003 LF CALTRAN 414222 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 7/16" TO 13/16").....	10.12	
50 89 85 41-0004 LF CALTRAN 414223 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 1" TO 1-1/4").....	11.42	
50 89 85 41-0005 LF CALTRAN 424224 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 1-5/8" TO 2").....	15.72	
50 89 85 41-0006 LF CALTRAN 414241 ISOLATION JOINT SEAL (SILICONE).....	9.07	
50 89 85 41-0007 LF CALTRAN 414242 ISOLATION JOINT SEAL (PREFORMED COMPRESSION).....	11.54	
50 89 85 41-0008 SY CALTRAN 416101 PAVEMENT TRANSITION TAPER.....	50.49	
For Up To 100, Add	19.36	
For >100 To 250, Add	11.05	
For >250 To 500, Add	5.52	
For >1,000 To 2,000, Deduct	-1.37	
For >2,000 To 5,000, Deduct	-2.63	
For >5,000 To 10,000, Deduct	-3.89	
For >10,000 To 20,000, Deduct	-5.15	
For >20,000, Deduct	-6.42	
50 89 85 41-0009 CY CALTRAN 418002 REMOVE CONCRETE PAVEMENT AND BASE.....	38.00	
50 89 85 41-0010 SY CALTRAN 418005 REMOVE CONCRETE PAVEMENT (SQYD).....	16.44	
For >500 To 1,000, Deduct	-1.64	
For >1,000 To 2,500, Deduct	-2.96	
For >2,500 To 5,000, Deduct	-4.27	
For >5,000 To 10,000, Deduct	-5.59	
For >10,000, Deduct	-6.90	
 50 89 85 42 GROOVE AND GRIND CONCRETE (50 89 85)		
Note: Includes grooving and grinding concrete roadway surfaces per CALTRAN Standard.		
50 89 85 42-0001 SY CALTRAN 420102 GROOVE EXISTING CONCRETE PAVEMENT.....	1.36	
50 89 85 42-0002 SY CALTRAN 420104 GROOVE EXISTING BRIDGE DECK.....	2.03	
50 89 85 42-0003 SY CALTRAN 420201 GRIND EXISTING CONCRETE PAVEMENT.....	3.53	
For Up To 2,500, Add	2.65	
For >2,500 To 5,000, Add	0.88	
For >10,000 To 25,000, Deduct	-0.35	
For >25,000, Deduct	-0.53	
50 89 85 42-0004 SY CALTRAN 420203 GRIND EXISTING BRIDGE DECK.....	22.35	
For >100 To 1,000, Deduct	-11.18	
For >1,000, Deduct	-16.76	
 50 89 87 CALTRAN DIVISION VII - DRAINAGE FACILITIES (50 89 80)		
50 89 87 64 PLASTIC PIPE (50 89 87)		
Note: Includes installing plastic pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRAN Standard.		
50 89 87 64-0001 LF CALTRAN 641101 12" PLASTIC PIPE.....	33.18	
50 89 87 64-0002 LF CALTRAN 641104 15" PLASTIC PIPE.....	40.83	
50 89 87 64-0003 LF CALTRAN 641107 18" PLASTIC PIPE.....	50.28	
50 89 87 64-0004 LF CALTRAN 641110 21" PLASTIC PIPE.....	58.60	

50 Custom Standards And Assemblies**50 89 Custom Standards And Assemblies****50 89 80 CALTRAN Construction Performance Requirements**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
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50 89 87 64-0005	LF	CALTRAN 641113 24" PLASTIC PIPE	67.58
50 89 87 64-0006	LF	CALTRAN 641119 30" PLASTIC PIPE	95.93
50 89 87 64-0007	LF	CALTRAN 641125 36" PLASTIC PIPE	117.33
50 89 87 64-0008	LF	CALTRAN 641128 42" PLASTIC PIPE	204.08
50 89 87 64-0009	LF	CALTRAN 641131 48" PLASTIC PIPE	246.58

50 89 87 65 CONCRETE PIPE (50 89 87)

Note: Includes installing concrete pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRAN Standard.

50 89 87 65-0001	LF	CALTRAN 650010 12" REINFORCED CONCRETE PIPE	44.85
		<i>For >1,000, Deduct</i>	-2.24
50 89 87 65-0002	LF	CALTRAN 650012 15" REINFORCED CONCRETE PIPE	55.43
		<i>For >1,000, Deduct</i>	-2.77
50 89 87 65-0003	LF	CALTRAN 650014 18" REINFORCED CONCRETE PIPE	63.97
		<i>For >1,000, Deduct</i>	-3.20
50 89 87 65-0004	LF	CALTRAN 650016 21" REINFORCED CONCRETE PIPE	81.36
		<i>For >1,000, Deduct</i>	-4.07
50 89 87 65-0005	LF	CALTRAN 650018 24" REINFORCED CONCRETE PIPE	94.52
		<i>For >1,000, Deduct</i>	-4.73
50 89 87 65-0006	LF	CALTRAN 650019 27" REINFORCED CONCRETE PIPE	116.70
		<i>For >1,000, Deduct</i>	-5.84
50 89 87 65-0007	LF	CALTRAN 650022 30" REINFORCED CONCRETE PIPE	124.71
		<i>For >1,000, Deduct</i>	-6.24
50 89 87 65-0008	LF	CALTRAN 650024 33" REINFORCED CONCRETE PIPE	138.78
		<i>For >1,000, Deduct</i>	-6.94
50 89 87 65-0009	LF	CALTRAN 650026 36" REINFORCED CONCRETE PIPE	152.70
		<i>For >1,000, Deduct</i>	-7.64
50 89 87 65-0010	LF	CALTRAN 650030 42" REINFORCED CONCRETE PIPE	193.65
		<i>For >1,000, Deduct</i>	-9.68
50 89 87 65-0011	LF	CALTRAN 650034 48" REINFORCED CONCRETE PIPE	230.28
		<i>For >1,000, Deduct</i>	-11.51
50 89 87 65-0012	LF	CALTRAN 650038 54" REINFORCED CONCRETE PIPE	282.58
		<i>For >1,000, Deduct</i>	-14.13
50 89 87 65-0013	LF	CALTRAN 650042 60" REINFORCED CONCRETE PIPE	339.12
		<i>For >1,000, Deduct</i>	-16.96
50 89 87 65-0014	LF	CALTRAN 650046 66" REINFORCED CONCRETE PIPE	497.71
		<i>For >1,000, Deduct</i>	-24.89
50 89 87 65-0015	LF	CALTRAN 650050 72" REINFORCED CONCRETE PIPE	576.98
		<i>For >1,000, Deduct</i>	-28.85
50 89 87 65-0016	LF	CALTRAN 650054 78" REINFORCED CONCRETE PIPE	687.87
		<i>For >1,000, Deduct</i>	-34.39
50 89 87 65-0017	LF	CALTRAN 650058 84" REINFORCED CONCRETE PIPE	871.73
		<i>For >1,000, Deduct</i>	-43.59
50 89 87 65-0018	LF	CALTRAN 650065 96" REINFORCED CONCRETE PIPE	1,058.09
		<i>For >1,000, Deduct</i>	-52.90
50 89 87 65-0019	LF	CALTRAN 650211 18" REINFORCED CONCRETE PIPE (CLASS II)	62.73
		<i>For >1,000, Deduct</i>	-3.14
50 89 87 65-0020	LF	CALTRAN 650220 30" REINFORCED CONCRETE PIPE (CLASS II)	122.21
		<i>For >1,000, Deduct</i>	-6.11
50 89 87 65-0021	LF	CALTRAN 650222 33" REINFORCED CONCRETE PIPE (CLASS II)	135.83
		<i>For >1,000, Deduct</i>	-6.79
50 89 87 65-0022	LF	CALTRAN 650224 36" REINFORCED CONCRETE PIPE (CLASS II)	149.31
		<i>For >1,000, Deduct</i>	-7.47
50 89 87 65-0023	LF	CALTRAN 650307 12" REINFORCED CONCRETE PIPE (CLASS III)	44.85
		<i>For >1,000, Deduct</i>	-2.24
50 89 87 65-0024	LF	CALTRAN 650309 15" REINFORCED CONCRETE PIPE (CLASS III)	55.43
		<i>For >1,000, Deduct</i>	-2.77
50 89 87 65-0025	LF	CALTRAN 650311 18" REINFORCED CONCRETE PIPE (CLASS III)	63.97
		<i>For >1,000, Deduct</i>	-3.20
50 89 87 65-0026	LF	CALTRAN 650316 24" REINFORCED CONCRETE PIPE (CLASS III)	94.52
		<i>For >1,000, Deduct</i>	-4.73
50 89 87 65-0027	LF	CALTRAN 650318 27" REINFORCED CONCRETE PIPE (CLASS III)	116.70
		<i>For >1,000, Deduct</i>	-5.84
50 89 87 65-0028	LF	CALTRAN 650320 30" REINFORCED CONCRETE PIPE (CLASS III)	124.71
		<i>For >1,000, Deduct</i>	-6.24
50 89 87 65-0029	LF	CALTRAN 650324 36" REINFORCED CONCRETE PIPE (CLASS III)	152.70
		<i>For >1,000, Deduct</i>	-7.64
50 89 87 65-0030	LF	CALTRAN 650328 42" REINFORCED CONCRETE PIPE (CLASS III)	193.65
		<i>For >1,000, Deduct</i>	-9.68
50 89 87 65-0031	LF	CALTRAN 650336 54" REINFORCED CONCRETE PIPE (CLASS III)	282.58
		<i>For >1,000, Deduct</i>	-14.13
50 89 87 65-0032	LF	CALTRAN 650407 12" REINFORCED CONCRETE PIPE (CLASS IV)	46.60
		<i>For >1,000, Deduct</i>	-2.33
50 89 87 65-0033	LF	CALTRAN 650409 15" REINFORCED CONCRETE PIPE (CLASS IV)	57.67
		<i>For >1,000, Deduct</i>	-2.88
50 89 87 65-0034	LF	CALTRAN 650411 18" REINFORCED CONCRETE PIPE (CLASS IV)	66.33
		<i>For >1,000, Deduct</i>	-3.32
50 89 87 65-0035	LF	CALTRAN 650416 24" REINFORCED CONCRETE PIPE (CLASS IV)	97.99
		<i>For >1,000, Deduct</i>	-4.90
50 89 87 65-0036	LF	CALTRAN 650420 30" REINFORCED CONCRETE PIPE (CLASS IV)	129.45
		<i>For >1,000, Deduct</i>	-6.47
50 89 87 65-0037	LF	CALTRAN 650424 36" REINFORCED CONCRETE PIPE (CLASS IV)	159.14
		<i>For >1,000, Deduct</i>	-7.96



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0038 LF CALTRAN 650432 48" REINFORCED CONCRETE PIPE (CLASS IV).....	241.83	
For >1,000, Deduct	-12.09	
50 89 87 65-0039 LF CALTRAN 650436 54" REINFORCED CONCRETE PIPE (CLASS IV).....	297.58	
For >1,000, Deduct	-14.88	
50 89 87 65-0040 LF CALTRAN 650440 60" REINFORCED CONCRETE PIPE (CLASS IV).....	357.56	
For >1,000, Deduct	-17.88	
50 89 87 65-0041 LF CALTRAN 650507 12" REINFORCED CONCRETE PIPE (CLASS V).....	48.54	
For >1,000, Deduct	-2.43	
50 89 87 65-0042 LF CALTRAN 650511 18" REINFORCED CONCRETE PIPE (CLASS V).....	68.95	
For >1,000, Deduct	-3.45	
50 89 87 65-0043 LF CALTRAN 650516 24" REINFORCED CONCRETE PIPE (CLASS V).....	101.84	
For >1,000, Deduct	-5.09	
50 89 87 65-0044 LF CALTRAN 650520 30" REINFORCED CONCRETE PIPE (CLASS V).....	124.71	
For >1,000, Deduct	-6.24	
50 89 87 65-0045 LF CALTRAN 650524 36" REINFORCED CONCRETE PIPE (CLASS V).....	166.25	
For >1,000, Deduct	-8.31	
50 89 87 65-0046 LF CALTRAN 650528 42" REINFORCED CONCRETE PIPE (CLASS V).....	193.65	
For >1,000, Deduct	-9.68	
50 89 87 65-0047 LF CALTRAN 650536 54" REINFORCED CONCRETE PIPE (CLASS V).....	314.16	
For >1,000, Deduct	-15.71	
50 89 87 65-0048 LF CALTRAN 650540 60" REINFORCED CONCRETE PIPE (CLASS V).....	339.12	
For >1,000, Deduct	-16.96	
50 89 87 65-0049 LF CALTRAN 650548 72" REINFORCED CONCRETE PIPE (CLASS V).....	576.98	
For >1,000, Deduct	-28.85	
50 89 87 65-0050 LF CALTRAN 652207 12" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT)	45.22	
For >1,000, Deduct	-2.26	
50 89 87 65-0051 LF CALTRAN 652215 24" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT)	95.25	
For >1,000, Deduct	-4.76	
50 89 87 65-0052 LF CALTRAN 652307 12" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	46.23	
For >1,000, Deduct	-2.31	
50 89 87 65-0053 LF CALTRAN 652311 18" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	65.84	
For >1,000, Deduct	-3.29	
50 89 87 65-0054 LF CALTRAN 652314 21" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	83.79	
For >1,000, Deduct	-4.19	
50 89 87 65-0055 LF CALTRAN 652316 24" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	97.26	
For >1,000, Deduct	-4.86	
50 89 87 65-0056 LF CALTRAN 652320 30" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	128.46	
For >1,000, Deduct	-6.42	
50 89 87 65-0057 LF CALTRAN 652324 36" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	157.78	
For >1,000, Deduct	-7.89	
50 89 87 65-0058 LF CALTRAN 652328 42" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	201.00	
For >1,000, Deduct	-10.05	
50 89 87 65-0059 LF CALTRAN 652332 48" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	239.40	
For >1,000, Deduct	-11.97	
50 89 87 65-0060 LF CALTRAN 652348 72" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	606.98	
For >1,000, Deduct	-30.35	
50 89 87 65-0061 LF CALTRAN 652416 24" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	100.99	
For >1,000, Deduct	-5.05	
50 89 87 65-0062 LF CALTRAN 652420 30" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	133.55	
For >1,000, Deduct	-6.68	
50 89 87 65-0063 LF CALTRAN 652424 36" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	164.69	
For >1,000, Deduct	-8.23	
50 89 87 65-0064 LF CALTRAN 652428 42" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	211.00	
For >1,000, Deduct	-10.55	
50 89 87 65-0065 LF CALTRAN 652444 66" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	557.34	
For >1,000, Deduct	-27.87	
50 89 87 65-0066 LF CALTRAN 654311 18" REINFORCED CONCRETE PRESSURE PIPE (CLASS III)	104.76	
For >1,000, Deduct	-5.24	
50 89 87 65-0067 LF CALTRAN 654316 24" REINFORCED CONCRETE PRESSURE PIPE (CLASS III)	130.12	
For >1,000, Deduct	-6.51	
50 89 87 65-0068 LF CALTRAN 654324 36" REINFORCED CONCRETE PRESSURE PIPE (CLASS III)	174.09	
For >1,000, Deduct	-8.70	
50 89 87 65-0069 LF CALTRAN 657213 24" X 38" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS II)	183.53	
For >1,000, Deduct	-9.18	
50 89 87 65-0070 LF CALTRAN 657329 34" X 53" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS III)	309.34	
For >1,000, Deduct	-15.47	
50 89 87 65-0071 LF CALTRAN 659108 18" NON-REINFORCED CONCRETE PIPE	58.99	
For >1,000, Deduct	-2.95	
50 89 87 65-0072 LF CALTRAN 659109 24" NON-REINFORCED CONCRETE PIPE	87.20	
For >1,000, Deduct	-4.36	
50 89 87 65-0073 LF CALTRAN 659110 30" NON-REINFORCED CONCRETE PIPE	114.72	
For >1,000, Deduct	-5.74	
50 89 87 65-0074 LF CALTRAN 659111 36" NON-REINFORCED CONCRETE PIPE	139.15	
For >1,000, Deduct	-6.96	

50 89 87 66 CORRUGATED METAL PIPE (50 89 87)

Note: Includes installing corrugated metal pipe and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRAN Standard.

50 89 87 66-0001 LF CALTRAN 665002 6" CORRUGATED STEEL PIPE (.064" THICK).....	19.87
50 89 87 66-0002 LF CALTRAN 665003 6" CORRUGATED STEEL PIPE (.079" THICK).....	21.28
50 89 87 66-0003 LF CALTRAN 665005 8" CORRUGATED STEEL PIPE (.064" THICK).....	26.66
50 89 87 66-0004 LF CALTRAN 665006 8" CORRUGATED STEEL PIPE (.079" THICK).....	28.52

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
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50 89 87 66-0005	LF	CALTRAN 665008 10" CORRUGATED STEEL PIPE (.064" THICK).....	32.82	
50 89 87 66-0006	LF	CALTRAN 665009 10" CORRUGATED STEEL PIPE (.079" THICK).....	35.15	
50 89 87 66-0007	LF	CALTRAN 665011 12" CORRUGATED STEEL PIPE (.064" THICK).....	36.55	
50 89 87 66-0008	LF	CALTRAN 665012 12" CORRUGATED STEEL PIPE (.079" THICK).....	38.97	
50 89 87 66-0009	LF	CALTRAN 665013 15" CORRUGATED STEEL PIPE (.064" THICK).....	45.28	
50 89 87 66-0010	LF	CALTRAN 665014 15" CORRUGATED STEEL PIPE (.079" THICK).....	48.26	
50 89 87 66-0011	LF	CALTRAN 665015 15" CORRUGATED STEEL PIPE (.109" THICK).....	54.41	
50 89 87 66-0012	LF	CALTRAN 665016 18" CORRUGATED STEEL PIPE (.064" THICK).....	52.56	
50 89 87 66-0013	LF	CALTRAN 665017 18" CORRUGATED STEEL PIPE (.079" THICK).....	56.16	
50 89 87 66-0014	LF	CALTRAN 665018 18" CORRUGATED STEEL PIPE (.109" THICK).....	63.62	
50 89 87 66-0015	LF	CALTRAN 665019 21" CORRUGATED STEEL PIPE (.064" THICK).....	61.24	
50 89 87 66-0016	LF	CALTRAN 665020 21" CORRUGATED STEEL PIPE (.079" THICK).....	65.40	
50 89 87 66-0017	LF	CALTRAN 665021 21" CORRUGATED STEEL PIPE (.109" THICK).....	74.07	
50 89 87 66-0018	LF	CALTRAN 665022 24" CORRUGATED STEEL PIPE (.064" THICK).....	68.00	
50 89 87 66-0019	LF	CALTRAN 665023 24" CORRUGATED STEEL PIPE (.079" THICK).....	72.84	
50 89 87 66-0020	LF	CALTRAN 665024 24" CORRUGATED STEEL PIPE (.109" THICK).....	82.72	
50 89 87 66-0021	LF	CALTRAN 665025 24" CORRUGATED STEEL PIPE (.138" THICK).....	91.01	
50 89 87 66-0022	LF	CALTRAN 665026 27" CORRUGATED STEEL PIPE (.064" THICK).....	78.38	
50 89 87 66-0023	LF	CALTRAN 665027 27" CORRUGATED STEEL PIPE (.079" THICK).....	83.75	
50 89 87 66-0024	LF	CALTRAN 665030 30" CORRUGATED STEEL PIPE (.064" THICK).....	90.85	
50 89 87 66-0025	LF	CALTRAN 665031 30" CORRUGATED STEEL PIPE (.079" THICK).....	96.76	
50 89 87 66-0026	LF	CALTRAN 665032 30" CORRUGATED STEEL PIPE (.109" THICK).....	108.98	
50 89 87 66-0027	LF	CALTRAN 665032 30" CORRUGATED STEEL PIPE (.138" THICK).....	119.53	
50 89 87 66-0028	LF	CALTRAN 665035 36" CORRUGATED STEEL PIPE (.064" THICK).....	119.46	
50 89 87 66-0029	LF	CALTRAN 665036 36" CORRUGATED STEEL PIPE (.079" THICK).....	126.64	
50 89 87 66-0030	LF	CALTRAN 665037 36" CORRUGATED STEEL PIPE (.109" THICK).....	141.13	
50 89 87 66-0031	LF	CALTRAN 665038 36" CORRUGATED STEEL PIPE (.138" THICK).....	154.69	
50 89 87 66-0032	LF	CALTRAN 665039 36" CORRUGATED STEEL PIPE (.168" THICK).....	170.72	
50 89 87 66-0033	LF	CALTRAN 665040 42" CORRUGATED STEEL PIPE (.064" THICK).....	137.62	
50 89 87 66-0034	LF	CALTRAN 665041 42" CORRUGATED STEEL PIPE (.079" THICK).....	145.84	
50 89 87 66-0035	LF	CALTRAN 665042 42" CORRUGATED STEEL PIPE (.109" THICK).....	162.58	
50 89 87 66-0036	LF	CALTRAN 665043 42" CORRUGATED STEEL PIPE (.138" THICK).....	178.46	
50 89 87 66-0037	LF	CALTRAN 665045 48" CORRUGATED STEEL PIPE (.064" THICK).....	155.70	
50 89 87 66-0038	LF	CALTRAN 665046 48" CORRUGATED STEEL PIPE (.079" THICK).....	165.10	
50 89 87 66-0039	LF	CALTRAN 665047 48" CORRUGATED STEEL PIPE (.109" THICK).....	184.29	
50 89 87 66-0040	LF	CALTRAN 665048 48" CORRUGATED STEEL PIPE (.138" THICK).....	202.30	
50 89 87 66-0041	LF	CALTRAN 665049 48" CORRUGATED STEEL PIPE (.168" THICK).....	223.53	
50 89 87 66-0042	LF	CALTRAN 665050 54" CORRUGATED STEEL PIPE (.079" THICK).....	201.11	
50 89 87 66-0043	LF	CALTRAN 665051 54" CORRUGATED STEEL PIPE (.109" THICK).....	222.30	
50 89 87 66-0044	LF	CALTRAN 665052 54" CORRUGATED STEEL PIPE (.138" THICK).....	242.47	
50 89 87 66-0045	LF	CALTRAN 665053 54" CORRUGATED STEEL PIPE (.168" THICK).....	267.61	
50 89 87 66-0046	LF	CALTRAN 665055 60" CORRUGATED STEEL PIPE (.109" THICK).....	256.65	
50 89 87 66-0047	LF	CALTRAN 665056 60" CORRUGATED STEEL PIPE (.138" THICK).....	279.11	
50 89 87 66-0048	LF	CALTRAN 665057 60" CORRUGATED STEEL PIPE (.168" THICK).....	306.71	
50 89 87 66-0049	LF	CALTRAN 665058 66" CORRUGATED STEEL PIPE (.109" THICK).....	308.19	
50 89 87 66-0050	LF	CALTRAN 665059 66" CORRUGATED STEEL PIPE (.138" THICK).....	332.87	
50 89 87 66-0051	LF	CALTRAN 665061 72" CORRUGATED STEEL PIPE (.109" THICK).....	414.85	
50 89 87 66-0052	LF	CALTRAN 665062 72" CORRUGATED STEEL PIPE (.138" THICK).....	449.83	
50 89 87 66-0053	LF	CALTRAN 665064 78" CORRUGATED STEEL PIPE (.138" THICK).....	487.18	
50 89 87 66-0054	LF	CALTRAN 665066 84" CORRUGATED STEEL PIPE (.138" THICK).....	522.45	
50 89 87 66-0055	LF	CALTRAN 665067 84" CORRUGATED STEEL PIPE (.168" THICK).....	575.02	
50 89 87 66-0056	LF	CALTRAN 665068 90" CORRUGATED STEEL PIPE (.138" THICK).....	558.28	
50 89 87 66-0057	LF	CALTRAN 665070 96" CORRUGATED STEEL PIPE (.168" THICK).....	594.91	
50 89 87 66-0058	LF	CALTRAN 665075 18" CORRUGATED STEEL PIPE (.138" THICK).....	69.81	
50 89 87 66-0059	LF	CALTRAN 665094 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....	75.63	
50 89 87 66-0060	LF	CALTRAN 665103 6" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....	22.85	
50 89 87 66-0061	LF	CALTRAN 665105 8" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....	28.73	
50 89 87 66-0062	LF	CALTRAN 665106 8" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....	30.59	
50 89 87 66-0063	LF	CALTRAN 665108 10" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....	35.42	
50 89 87 66-0064	LF	CALTRAN 665109 10" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....	37.76	
50 89 87 66-0065	LF	CALTRAN 665111 12" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....	39.29	
50 89 87 66-0066	LF	CALTRAN 665112 12" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....	41.72	
50 89 87 66-0067	LF	CALTRAN 665113 15" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....	48.69	
50 89 87 66-0068	LF	CALTRAN 665114 15" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....	51.71	
50 89 87 66-0069	LF	CALTRAN 665115 15" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....	59.10	
50 89 87 66-0070	LF	CALTRAN 665116 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....	56.69	
50 89 87 66-0071	LF	CALTRAN 665117 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....	60.34	
50 89 87 66-0072	LF	CALTRAN 665118 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....	68.40	
50 89 87 66-0073	LF	CALTRAN 665119 21" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....	66.18	
50 89 87 66-0074	LF	CALTRAN 665120 21" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....	70.37	
50 89 87 66-0075	LF	CALTRAN 665121 21" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....	79.72	
50 89 87 66-0076	LF	CALTRAN 665122 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....	73.56	
50 89 87 66-0077	LF	CALTRAN 665123 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....	78.46	
50 89 87 66-0078	LF	CALTRAN 665124 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....	89.13	
50 89 87 66-0079	LF	CALTRAN 665125 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....	98.82	
50 89 87 66-0080	LF	CALTRAN 665130 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....	98.07	
50 89 87 66-0081	LF	CALTRAN 665130 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....	98.07	
50 89 87 66-0082	LF	CALTRAN 665131 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....	103.98	
50 89 87 66-0083	LF	CALTRAN 665132 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....	117.13	
50 89 87 66-0084	LF	CALTRAN 665132 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....	129.46	
50 89 87 66-0085	LF	CALTRAN 665135 36" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....	128.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0086 LF CALTRAN 665136 36" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK)	135.69	
50 89 87 66-0087 LF CALTRAN 665137 36" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK)	151.21	
50 89 87 66-0088 LF CALTRAN 665138 36" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK)	167.52	
50 89 87 66-0089 LF CALTRAN 665139 36" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK)	186.38	
50 89 87 66-0090 LF CALTRAN 665140 42" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK)	148.40	
50 89 87 66-0091 LF CALTRAN 665141 42" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK)	156.49	
50 89 87 66-0092 LF CALTRAN 665142 42" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK)	174.40	
50 89 87 66-0093 LF CALTRAN 665143 42" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK)	193.48	
50 89 87 66-0094 LF CALTRAN 665145 48" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK)	167.77	
50 89 87 66-0095 LF CALTRAN 665146 48" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK)	177.07	
50 89 87 66-0096 LF CALTRAN 665147 48" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK)	197.63	
50 89 87 66-0097 LF CALTRAN 665148 48" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK)	219.28	
50 89 87 66-0098 LF CALTRAN 665149 48" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK)	244.27	
50 89 87 66-0099 LF CALTRAN 665150 54" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK)	215.83	
50 89 87 66-0100 LF CALTRAN 665151 54" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK)	238.29	
50 89 87 66-0101 LF CALTRAN 665152 54" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK)	262.58	
50 89 87 66-0102 LF CALTRAN 665153 54" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK)	292.17	
50 89 87 66-0103 LF CALTRAN 665155 60" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK)	274.17	
50 89 87 66-0104 LF CALTRAN 665156 60" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK)	301.19	
50 89 87 66-0105 LF CALTRAN 665157 60" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK)	333.69	
50 89 87 66-0106 LF CALTRAN 665158 66" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK)	329.51	
50 89 87 66-0107 LF CALTRAN 665159 66" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK)	358.39	
50 89 87 66-0108 LF CALTRAN 665161 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK)	449.74	
50 89 87 66-0109 LF CALTRAN 665162 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK)	491.72	
50 89 87 66-0110 LF CALTRAN 665164 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK)	532.01	
50 89 87 66-0111 LF CALTRAN 665166 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK)	570.24	
50 89 87 66-0112 LF CALTRAN 665167 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK)	633.32	
50 89 87 66-0113 LF CALTRAN 665168 90" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK)	609.01	
50 89 87 66-0114 LF CALTRAN 665180 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK)	112.99	
50 89 87 66-0115 LF CALTRAN 665223 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.079" THICK)	85.86	
50 89 87 66-0116 LF CALTRAN 665224 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK)	94.29	
50 89 87 66-0117 LF CALTRAN 665237 36" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK)	159.33	
50 89 87 66-0118 LF CALTRAN 665323 24" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK)	78.46	
50 89 87 66-0119 LF CALTRAN 665334 30" BITUMINOUS LINED CORRUGATED STEEL PIPE (.168" THICK)	147.49	
50 89 87 66-0120 LF CALTRAN 665336 36" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK)	135.69	
50 89 87 66-0121 LF CALTRAN 665711 12" SLOTTED CORRUGATED STEEL PIPE (.064" THICK)	38.86	
50 89 87 66-0122 LF CALTRAN 665712 12" SLOTTED CORRUGATED STEEL PIPE (.079" THICK)	41.16	
50 89 87 66-0123 LF CALTRAN 665713 12" SLOTTED CORRUGATED STEEL PIPE (.109" THICK)	48.32	
50 89 87 66-0124 LF CALTRAN 665716 18" SLOTTED CORRUGATED STEEL PIPE (.064" THICK)	66.48	
50 89 87 66-0125 LF CALTRAN 665717 18" SLOTTED CORRUGATED STEEL PIPE (.079" THICK)	71.75	
50 89 87 66-0126 LF CALTRAN 665718 18" SLOTTED CORRUGATED STEEL PIPE (.168" THICK)	116.85	
50 89 87 66-0127 LF CALTRAN 665722 24" SLOTTED CORRUGATED STEEL PIPE (.064" THICK)	72.47	
50 89 87 66-0128 LF CALTRAN 665723 24" SLOTTED CORRUGATED STEEL PIPE (.079" THICK)	77.14	
50 89 87 66-0129 LF CALTRAN 665811 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK)	42.13	
50 89 87 66-0130 LF CALTRAN 665812 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK)	44.97	
50 89 87 66-0131 LF CALTRAN 665816 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK)	73.97	
50 89 87 66-0132 LF CALTRAN 665817 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK)	80.51	
50 89 87 66-0133 LF CALTRAN 665818 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.109" THICK)	100.94	
50 89 87 66-0134 LF CALTRAN 665820 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.138" THICK)	116.95	
50 89 87 66-0135 LF CALTRAN 665822 24" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK)	84.91	
50 89 87 66-0136 LF CALTRAN 665828 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.168" THICK)	136.54	
50 89 87 66-0137 LF CALTRAN 667001 17" X 13" CORRUGATED STEEL PIPE ARCH (.079" THICK)	50.18	
50 89 87 66-0138 LF CALTRAN 667005 21" X 15" CORRUGATED STEEL PIPE ARCH (.079" THICK)	61.32	
50 89 87 66-0139 LF CALTRAN 667006 21" X 15" CORRUGATED STEEL PIPE ARCH (.109" THICK)	68.72	
50 89 87 66-0140 LF CALTRAN 667009 24" X 18" CORRUGATED STEEL PIPE ARCH (.079" THICK)	71.05	
50 89 87 66-0141 LF CALTRAN 667010 24" X 18" CORRUGATED STEEL PIPE ARCH (.109" THICK)	79.77	
50 89 87 66-0142 LF CALTRAN 667013 28" X 20" CORRUGATED STEEL PIPE ARCH (.079" THICK)	74.47	
50 89 87 66-0143 LF CALTRAN 667014 28" X 20" CORRUGATED STEEL PIPE ARCH (.109" THICK)	89.40	
50 89 87 66-0144 LF CALTRAN 667015 28" X 20" CORRUGATED STEEL PIPE ARCH (.138" THICK)	98.05	
50 89 87 66-0145 LF CALTRAN 667018 35" X 24" CORRUGATED STEEL PIPE ARCH (.079" THICK)	105.19	
50 89 87 66-0146 LF CALTRAN 667019 35" X 24" CORRUGATED STEEL PIPE ARCH (.109" THICK)	117.37	
50 89 87 66-0147 LF CALTRAN 667020 35" X 24" CORRUGATED STEEL PIPE ARCH (.138" THICK)	128.26	
50 89 87 66-0148 LF CALTRAN 667023 42" X 29" CORRUGATED STEEL PIPE ARCH (.079" THICK)	129.37	
50 89 87 66-0149 LF CALTRAN 667024 42" X 29" CORRUGATED STEEL PIPE ARCH (.109" THICK)	143.77	
50 89 87 66-0150 LF CALTRAN 667025 42" X 29" CORRUGATED STEEL PIPE ARCH (.138" THICK)	157.34	
50 89 87 66-0151 LF CALTRAN 667028 49" X 33" CORRUGATED STEEL PIPE ARCH (.079" THICK)	149.72	
50 89 87 66-0152 LF CALTRAN 667029 49" X 33" CORRUGATED STEEL PIPE ARCH (.109" THICK)	166.36	
50 89 87 66-0153 LF CALTRAN 667030 49" X 33" CORRUGATED STEEL PIPE ARCH (.138" THICK)	182.17	
50 89 87 66-0154 LF CALTRAN 667033 57" X 38" CORRUGATED STEEL PIPE ARCH (.079" THICK)	177.94	
50 89 87 66-0155 LF CALTRAN 667034 57" X 38" CORRUGATED STEEL PIPE ARCH (.109" THICK)	192.71	
50 89 87 66-0156 LF CALTRAN 667035 57" X 38" CORRUGATED STEEL PIPE ARCH (.138" THICK)	210.63	
50 89 87 66-0157 LF CALTRAN 667037 64" X 43" CORRUGATED STEEL PIPE ARCH (.079" THICK)	207.85	
50 89 87 66-0158 LF CALTRAN 667038 64" X 43" CORRUGATED STEEL PIPE ARCH (.109" THICK)	224.16	
50 89 87 66-0159 LF CALTRAN 667041 71" X 47" CORRUGATED STEEL PIPE ARCH (.109" THICK)	260.78	
50 89 87 66-0160 LF CALTRAN 667042 71" X 47" CORRUGATED STEEL PIPE ARCH (.138" THICK)	281.19	
50 89 87 66-0161 LF CALTRAN 667048 83" X 57" CORRUGATED STEEL PIPE ARCH (.138" THICK)	430.46	
50 89 87 66-0162 LF CALTRAN 667114 28" X 20" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.109" THICK)	96.20	
50 89 87 66-0163 LF CALTRAN 667326 42" X 29" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.168" THICK)	189.50	
50 89 87 66-0164 LF CALTRAN 669012 12" CORRUGATED STEEL PIPE CONDUIT (.079" THICK)	38.97	
50 89 87 66-0165 LF CALTRAN 669016 18" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	52.56	
50 89 87 66-0166 LF CALTRAN 669017 18" CORRUGATED STEEL PIPE CONDUIT (.079" THICK)	56.16	

50 Custom Standards And Assemblies**50 89 Custom Standards And Assemblies****50 89 80 CALTRAN Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0167 LF CALTRAN 669018 18" CORRUGATED STEEL PIPE CONDUIT (.109" THICK).....	63.62	
50 89 87 66-0168 LF CALTRAN 669055 8" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	28.73	
50 89 87 66-0169 LF CALTRAN 669072 24" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.079" THICK)	78.46	
50 89 87 67 STRUCTURAL PLATE CULVERTS (50 89 87)		
Note: Includes structural metal plate pipe, arches and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, testing, and other connecting devices per CALTRAN Standard.		
50 89 87 67-0001 LF CALTRAN 670602 90" STRUCTURAL STEEL PLATE PIPE (.138" THICK).....	607.47	
50 89 87 67-0002 LF CALTRAN 670901 108" STRUCTURAL STEEL PLATE PIPE (.109" THICK).....	669.36	
50 89 87 67-0003 LF CALTRAN 671101 120" STRUCTURAL STEEL PLATE PIPE (.109" THICK).....	745.53	
50 89 87 67-0004 LF CALTRAN 674351 11'-10" X 7'-7" STRUCTURAL STEEL PLATE PIPE ARCH (.109" THICK)	866.04	
50 89 87 68 SUBSURFACE DRAINS (50 89 87)		
Note: Includes subsurface drains, excavation, backfill and compaction per CALTRAN Standard.		
50 89 87 68-0001 LF CALTRAN 680402 6" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK).....	21.27	
50 89 87 68-0002 LF CALTRAN 680405 8" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK).....	28.53	
50 89 87 68-0003 LF CALTRAN 680406 8" PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK).....	30.80	
50 89 87 68-0004 LF CALTRAN 680411 12" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK).....	40.22	
50 89 87 68-0005 LF CALTRAN 680412 12" PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK).....	43.19	
50 89 87 68-0006 LF CALTRAN 680436 8" BITUMINOUS COATED PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK).....	33.34	
50 89 87 69 OVERSIDE DRAINS (50 89 87)		
Note: Includes constructing outside drains, excavation, backfill, compaction and anchors per CALTRAN Standard.		
50 89 87 69-0001 LF CALTRAN 690103 6" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	21.28	
50 89 87 69-0002 LF CALTRAN 690105 8" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	26.66	
50 89 87 69-0003 LF CALTRAN 690106 8" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	28.52	
50 89 87 69-0004 LF CALTRAN 690107 10" CORRUGATED STEEL PIPE DOWNDRAIN.....	34.10	
50 89 87 69-0005 LF CALTRAN 690111 12" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	36.55	
50 89 87 69-0006 LF CALTRAN 690112 12" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	38.97	
50 89 87 69-0007 LF CALTRAN 690114 15" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	48.26	
50 89 87 69-0008 LF CALTRAN 690115 15" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	54.41	
50 89 87 69-0009 LF CALTRAN 690116 18" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	52.56	
50 89 87 69-0010 LF CALTRAN 690117 18" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	56.16	
50 89 87 69-0011 LF CALTRAN 690118 18" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	63.62	
50 89 87 69-0012 LF CALTRAN 690122 24" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	68.00	
50 89 87 69-0013 LF CALTRAN 690123 24" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	72.84	
50 89 87 69-0014 LF CALTRAN 690124 24" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	82.72	
50 89 87 69-0015 LF CALTRAN 690125 24" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	91.01	
50 89 87 69-0016 LF CALTRAN 690131 30" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	96.76	
50 89 87 69-0017 LF CALTRAN 690132 30" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	108.98	
50 89 87 69-0018 LF CALTRAN 690134 30" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	119.53	
50 89 87 69-0019 LF CALTRAN 690136 36" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	126.64	
50 89 87 69-0020 LF CALTRAN 690137 36" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	141.13	
50 89 87 69-0021 LF CALTRAN 690138 36" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	154.69	
50 89 87 69-0022 LF CALTRAN 690142 42" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	162.58	
50 89 87 69-0023 LF CALTRAN 690147 48" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	184.29	
50 89 87 69-0024 LF CALTRAN 690148 48" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	202.30	
50 89 87 69-0025 LF CALTRAN 690150 54" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	222.30	
50 89 87 69-0026 LF CALTRAN 690205 8" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	28.73	
50 89 87 69-0027 LF CALTRAN 690206 8" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	30.59	
50 89 87 69-0028 LF CALTRAN 690211 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	39.29	
50 89 87 69-0029 LF CALTRAN 690212 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	41.72	
50 89 87 69-0030 LF CALTRAN 690216 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	56.69	
50 89 87 69-0031 LF CALTRAN 690217 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	60.34	
50 89 87 69-0032 LF CALTRAN 690218 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	68.40	
50 89 87 69-0033 LF CALTRAN 690222 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	73.56	
50 89 87 69-0034 LF CALTRAN 690223 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	78.46	
50 89 87 69-0035 LF CALTRAN 690224 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	89.13	
50 89 87 69-0036 LF CALTRAN 690225 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	98.82	
50 89 87 69-0037 LF CALTRAN 690231 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	103.98	
50 89 87 69-0038 LF CALTRAN 690232 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	117.13	
50 89 87 69-0039 LF CALTRAN 690235 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	128.57	
50 89 87 69-0040 LF CALTRAN 690237 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	151.21	
50 89 87 69-0041 LF CALTRAN 690238 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	167.52	
50 89 87 69-0042 LF CALTRAN 690242 42" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	174.40	
50 89 87 69-0043 LF CALTRAN 690247 48" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	197.63	
50 89 87 69-0044 LF CALTRAN 690253 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	129.46	
50 89 87 69-0045 LF CALTRAN 690260 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	52.15	
50 89 87 69-0046 LF CALTRAN 690263 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	75.72	
50 89 87 69-0047 LF CALTRAN 690318 18" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	72.26	
50 89 87 69-0048 LF CALTRAN 690324 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	94.29	
50 89 87 69-0049 LF CALTRAN 690341 42" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	156.49	
50 89 87 69-0050 LF CALTRAN 690351 54" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	251.18	
50 89 87 69-0051 LF CALTRAN 690960 12" PLASTIC PIPE DOWNDRAIN	33.18	
50 89 87 69-0052 LF CALTRAN 690964 18" PLASTIC PIPE DOWNDRAIN	50.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 69-0053 EA CALTRAN 692303 8" ANCHOR ASSEMBLY	489.41	
50 89 87 69-0054 EA CALTRAN 692305 12" ANCHOR ASSEMBLY	607.87	
50 89 87 69-0055 EA CALTRAN 692306 15" ANCHOR ASSEMBLY	679.93	
50 89 87 69-0056 EA CALTRAN 692307 18" ANCHOR ASSEMBLY	757.34	
50 89 87 69-0057 EA CALTRAN 692309 24" ANCHOR ASSEMBLY	928.88	
50 89 87 69-0058 EA CALTRAN 692311 30" ANCHOR ASSEMBLY	1,113.65	
50 89 87 69-0059 EA CALTRAN 692313 36" ANCHOR ASSEMBLY	1,298.57	
50 89 87 69-0060 EA CALTRAN 692319 54" ANCHOR ASSEMBLY	1,855.03	

50 89 87 71 EXISTING DRAINAGE FACILITIES (50 89 87)

Note: For work on culverts, inlets, headwalls, endwalls, aprons, drains, pipes, gutters, gutter depressions, junction structures, spillways, and check dams. Includes cleaning and preparing, inspecting and evaluating, repairing, rehabilitating, and reinspecting culverts, drain pipes, conduit, risers, downdrains, median drainage inlets, and underdrains per CALTRAN Standard.

50 89 87 71-0001 LF CALTRAN 710360 CLEANING, INSPECTING, AND PREPARING CULVERT (LF)	40.60	
<i>For >250 To 500, Deduct</i>	-1.86	
<i>For >500 To 1,000, Deduct</i>	-3.73	
<i>For >1,000 To 2,000, Deduct</i>	-5.59	
<i>For >2,000 To 5,000, Deduct</i>	-7.46	
<i>For >5,000, Deduct</i>	-9.32	
50 89 87 71-0002 CY CALTRAN 710368 CULVERT SLURRY-CEMENT BACKFILL.....	201.79	
50 89 87 71-0003 CY CALTRAN 710370 SAND BACKFILL	52.83	
<i>For Up To 10, Add</i>	14.49	
<i>For >10 To 25, Add</i>	5.28	
50 89 87 71-0004 LF CALTRAN 710372 8" CURED-IN-PLACE PIPELINER	49.21	
<i>For Up To 75, Add</i>	43.34	
<i>For >75 To 150, Add</i>	21.67	
<i>For >500 To 1,000, Deduct</i>	-1.50	
<i>For >1,000 To 2,000, Deduct</i>	-2.87	
<i>For >2,000 To 5,000, Deduct</i>	-4.50	
<i>For >5,000, Deduct</i>	-6.21	
50 89 87 71-0005 LF CALTRAN 710374 10" CURED-IN-PLACE PIPELINER.....	54.66	
<i>For Up To 75, Add</i>	47.49	
<i>For >75 To 150, Add</i>	23.74	
<i>For >500 To 1,000, Deduct</i>	-1.66	
<i>For >1,000 To 2,000, Deduct</i>	-3.17	
<i>For >2,000 To 5,000, Deduct</i>	-4.97	
<i>For >5,000, Deduct</i>	-6.87	
50 89 87 71-0006 LF CALTRAN 710376 12" CURED-IN-PLACE PIPELINER.....	60.67	
<i>For Up To 75, Add</i>	52.36	
<i>For >75 To 150, Add</i>	26.18	
<i>For >500 To 1,000, Deduct</i>	-1.83	
<i>For >1,000 To 2,000, Deduct</i>	-3.51	
<i>For >2,000 To 5,000, Deduct</i>	-5.50	
<i>For >5,000, Deduct</i>	-7.61	
50 89 87 71-0007 LF CALTRAN 710378 15" CURED-IN-PLACE PIPELINER.....	82.18	
<i>For Up To 75, Add</i>	62.13	
<i>For >75 To 150, Add</i>	31.07	
<i>For >500 To 1,000, Deduct</i>	-2.35	
<i>For >1,000 To 2,000, Deduct</i>	-4.52	
<i>For >2,000 To 5,000, Deduct</i>	-7.04	
<i>For >5,000, Deduct</i>	-9.98	
50 89 87 71-0008 LF CALTRAN 710380 18" CURED-IN-PLACE PIPELINER.....	101.61	
<i>For Up To 75, Add</i>	71.88	
<i>For >75 To 150, Add</i>	35.94	
<i>For >500 To 1,000, Deduct</i>	-2.83	
<i>For >1,000 To 2,000, Deduct</i>	-5.45	
<i>For >2,000 To 5,000, Deduct</i>	-8.48	
<i>For >5,000, Deduct</i>	-12.14	
50 89 87 71-0009 LF CALTRAN 710382 21" CURED-IN-PLACE PIPELINER.....	116.54	
<i>For Up To 75, Add</i>	79.16	
<i>For >75 To 150, Add</i>	39.58	
<i>For >500 To 1,000, Deduct</i>	-3.19	
<i>For >1,000 To 2,000, Deduct</i>	-6.17	
<i>For >2,000 To 5,000, Deduct</i>	-9.57	
<i>For >5,000, Deduct</i>	-13.80	
50 89 87 71-0010 LF CALTRAN 710384 24" CURED-IN-PLACE PIPELINER.....	146.57	
<i>For Up To 75, Add</i>	90.23	
<i>For >75 To 150, Add</i>	45.12	
<i>For >500 To 1,000, Deduct</i>	-3.87	
<i>For >1,000 To 2,000, Deduct</i>	-7.50	
<i>For >2,000 To 5,000, Deduct</i>	-11.61	
<i>For >5,000, Deduct</i>	-17.00	
50 89 87 71-0011 LF CALTRAN 710386 27" CURED-IN-PLACE PIPELINER.....	174.36	
<i>For Up To 75, Add</i>	105.25	
<i>For >75 To 150, Add</i>	52.63	
<i>For >500 To 1,000, Deduct</i>	-4.57	
<i>For >1,000 To 2,000, Deduct</i>	-8.87	
<i>For >2,000 To 5,000, Deduct</i>	-13.71	
<i>For >5,000, Deduct</i>	-20.14	

50 Custom Standards And Assemblies

50 89 Custom Standards And Assemblies

50 89 80 CALTRAN Construction Performance Requirements



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0012 LF CALTRAN 710388 30" CURED-IN-PLACE PIPELINER	195.07	
For Up To 75, Add	117.21	
For >75 To 150, Add	58.60	
For >500 To 1,000, Deduct	-5.10	
For >1,000 To 2,000, Deduct	-9.91	
For >2,000 To 5,000, Deduct	-15.31	
For >5,000, Deduct	-22.51	
50 89 87 71-0013 LF CALTRAN 710390 36" CURED-IN-PLACE PIPELINER	237.97	
For Up To 75, Add	135.57	
For >75 To 150, Add	67.78	
For >500 To 1,000, Deduct	-6.11	
For >1,000 To 2,000, Deduct	-11.89	
For >2,000 To 5,000, Deduct	-18.34	
For >5,000, Deduct	-27.18	
50 89 87 71-0014 LF CALTRAN 710392 42" CURED-IN-PLACE PIPELINER	272.01	
For Up To 75, Add	154.93	
For >75 To 150, Add	77.47	
For >500 To 1,000, Deduct	-6.99	
For >1,000 To 2,000, Deduct	-13.59	
For >2,000 To 5,000, Deduct	-20.96	
For >5,000, Deduct	-31.07	
50 89 87 71-0015 LF CALTRAN 710394 48" CURED-IN-PLACE PIPELINER	337.25	
For Up To 75, Add	190.61	
For >75 To 150, Add	95.31	
For >500 To 1,000, Deduct	-8.64	
For >1,000 To 2,000, Deduct	-16.81	
For >2,000 To 5,000, Deduct	-25.92	
For >5,000, Deduct	-38.46	
50 89 87 71-0016 LF CALTRAN 710396 54" CURED-IN-PLACE PIPELINER	405.45	
For Up To 75, Add	228.87	
For >75 To 150, Add	114.44	
For >500 To 1,000, Deduct	-10.38	
For >1,000 To 2,000, Deduct	-20.20	
For >2,000 To 5,000, Deduct	-31.15	
For >5,000, Deduct	-46.23	
50 89 87 71-0017 LF CALTRAN 710398 60" CURED-IN-PLACE PIPELINER	498.46	
For Up To 75, Add	301.23	
For >75 To 150, Add	150.62	
For >500 To 1,000, Deduct	-13.07	
For >1,000 To 2,000, Deduct	-25.36	
For >2,000 To 5,000, Deduct	-39.21	
For >5,000, Deduct	-57.60	
50 89 87 71-0018 LF CALTRAN 710400 18" DEFORMED/RE-FORMED HDPE PIPELINER	144.86	
For >500 To 1,000, Deduct	-1.19	
For >1,000 To 2,000, Deduct	-2.38	
For >2,000, Deduct	-4.76	
50 89 87 71-0019 LF CALTRAN 710402 21" DEFORMED/RE-FORMED HDPE PIPELINER	163.71	
For >500 To 1,000, Deduct	-1.29	
For >1,000 To 2,000, Deduct	-2.58	
For >2,000, Deduct	-5.16	
50 89 87 71-0020 LF CALTRAN 710404 24" DEFORMED/RE-FORMED HDPE PIPELINER	199.28	
For >500 To 1,000, Deduct	-1.41	
For >1,000 To 2,000, Deduct	-2.81	
For >2,000, Deduct	-5.63	
50 89 87 71-0021 LF CALTRAN 710434 12" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	19.28	
50 89 87 71-0022 LF CALTRAN 710436 15" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	28.54	
50 89 87 71-0023 LF CALTRAN 710438 18" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	38.38	
50 89 87 71-0024 LF CALTRAN 710440 21" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	47.51	
50 89 87 71-0025 LF CALTRAN 710442 24" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	61.75	
50 89 87 71-0026 LF CALTRAN 710444 27" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	73.91	
50 89 87 71-0027 LF CALTRAN 710446 30" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	84.52	
50 89 87 71-0028 LF CALTRAN 710448 12" CEMENTITIOUS PIPELINER	54.24	
50 89 87 71-0029 LF CALTRAN 710450 15" CEMENTITIOUS PIPELINER	58.94	
50 89 87 71-0030 LF CALTRAN 710452 18" CEMENTITIOUS PIPELINER	62.02	
50 89 87 71-0031 LF CALTRAN 710454 21" CEMENTITIOUS PIPELINER	65.87	
50 89 87 71-0032 LF CALTRAN 710456 24" CEMENTITIOUS PIPELINER	69.65	
50 89 87 71-0033 LF CALTRAN 710458 27" CEMENTITIOUS PIPELINER	72.36	
50 89 87 71-0034 LF CALTRAN 710460 30" CEMENTITIOUS PIPELINER	74.96	
50 89 87 71-0035 LF CALTRAN 710462 36" CEMENTITIOUS PIPELINER	73.77	
50 89 87 71-0036 LF CALTRAN 710478 36" WELDED STEEL PIPELINER	460.29	
50 89 87 71-0037 LF CALTRAN 710480 42" WELDED STEEL PIPELINER	531.98	
50 89 87 71-0038 LF CALTRAN 710482 48" WELDED STEEL PIPELINER	605.32	
50 89 87 71-0039 LF CALTRAN 710484 54" WELDED STEEL PIPELINER	730.53	
50 89 87 71-0040 LF CALTRAN 710486 60" WELDED STEEL PIPELINER	793.20	
50 89 87 71-0041 LF CALTRAN 710488 66" WELDED STEEL PIPELINER	867.30	
50 89 87 71-0042 LF CALTRAN 710490 72" WELDED STEEL PIPELINER	1,023.49	
50 89 87 71-0043 LF CALTRAN 710491 78" WELDED STEEL PIPELINER	1,083.65	
50 89 87 71-0044 LF CALTRAN 710492 84" WELDED STEEL PIPELINER	1,149.86	
50 89 87 71-0045 LF CALTRAN 710494 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 42" X 29")	201.15	
50 89 87 71-0046 LF CALTRAN 710496 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 49" X 33")	249.37	
50 89 87 71-0047 LF CALTRAN 710498 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 57" X 38")	307.15	
50 89 87 71-0048 LF CALTRAN 710500 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 64" X 43")	367.41	
50 89 87 71-0049 LF CALTRAN 710522 83" X 57" WELDED STEEL PIPELINER (ARCH)	1,131.18	
50 89 87 71-0050 LF CALTRAN 710524 HDPE PLASTIC PIPELINER (16" OD SDR 32.5)	42.14	
50 89 87 71-0051 LF CALTRAN 710526 HDPE PLASTIC PIPELINER (18" OD SDR 32.5)	52.96	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0052	LF			CALTRAN 710528 HDPE PLASTIC PIPELINER (20" OD SDR 32.5)	64.81	
50 89 87 71-0053	LF			CALTRAN 710530 HDPE PLASTIC PIPELINER (22" OD SDR 32.5)	74.68	
50 89 87 71-0054	LF			CALTRAN 710532 HDPE PLASTIC PIPELINER (24" OD SDR 32.5)	85.39	
50 89 87 71-0055	LF			CALTRAN 710534 HDPE PLASTIC PIPELINER (26" OD SDR 32.5)	97.34	
50 89 87 71-0056	LF			CALTRAN 710536 HDPE PLASTIC PIPELINER (28" OD SDR 32.5)	109.69	
50 89 87 71-0057	LF			CALTRAN 710538 HDPE PLASTIC PIPELINER (30" OD SDR 32.5)	126.78	
50 89 87 71-0058	LF			CALTRAN 710540 HDPE PLASTIC PIPELINER (32" OD SDR 32.5)	144.72	
50 89 87 71-0059	LF			CALTRAN 710542 HDPE PLASTIC PIPELINER (34" OD SDR 32.5)	159.81	
50 89 87 71-0060	LF			CALTRAN 710544 HDPE PLASTIC PIPELINER (36" OD SDR 32.5)	174.91	
50 89 87 71-0061	LF			CALTRAN 710546 HDPE PLASTIC PIPELINER (39.5" OD SDR 32.5)	199.56	
50 89 87 71-0062	LF			CALTRAN 710548 HDPE PLASTIC PIPELINER (42" OD SDR 32.5)	224.23	
50 89 87 71-0063	LF			CALTRAN 710550 HDPE PLASTIC PIPELINER (48" OD SDR 32.5)	287.26	
50 89 87 71-0064	LF			CALTRAN 710552 HDPE PLASTIC PIPELINER (54" OD SDR 32.5)	349.50	
50 89 87 71-0065	LF			CALTRAN 710554 HDPE PLASTIC PIPELINER (55.3" OD SDR 32.5)	369.04	
50 89 87 71-0066	LF			CALTRAN 710556 HDPE PLASTIC PIPELINER (63.2" OD SDR 32.5)	461.66	
50 89 87 71-0067	LF			CALTRAN 710558 HDPE PLASTIC PIPELINER (16" OD SDR 26)	49.95	
50 89 87 71-0068	LF			CALTRAN 710660 HDPE PLASTIC PIPELINER (18" OD SDR 26)	62.78	
50 89 87 71-0069	LF			CALTRAN 710662 HDPE PLASTIC PIPELINER (20" OD SDR 26)	77.07	
50 89 87 71-0070	LF			CALTRAN 710664 HDPE PLASTIC PIPELINER (22" OD SDR 26)	88.90	
50 89 87 71-0071	LF			CALTRAN 710666 HDPE PLASTIC PIPELINER (24" OD SDR 26)	101.77	
50 89 87 71-0072	LF			CALTRAN 710668 HDPE PLASTIC PIPELINER (26" OD SDR 26)	116.16	
50 89 87 71-0073	LF			CALTRAN 710670 HDPE PLASTIC PIPELINER (28" OD SDR 26)	131.07	
50 89 87 71-0074	LF			CALTRAN 710672 HDPE PLASTIC PIPELINER (30" OD SDR 26)	151.85	
50 89 87 71-0075	LF			CALTRAN 710674 HDPE PLASTIC PIPELINER (32" OD SDR 26)	173.68	
50 89 87 71-0076	LF			CALTRAN 710766 HDPE PLASTIC PIPELINER (34" OD SDR 26)	191.98	
50 89 87 71-0077	LF			CALTRAN 710768 HDPE PLASTIC PIPELINER (36" OD SDR 26)	210.30	
50 89 87 71-0078	LF			CALTRAN 710770 HDPE PLASTIC PIPELINER (39.5" OD SDR 26)	240.45	
50 89 87 71-0079	LF			CALTRAN 710772 HDPE PLASTIC PIPELINER (42" OD SDR 26)	270.62	
50 89 87 71-0080	LF			CALTRAN 710774 HDPE PLASTIC PIPELINER (48" OD SDR 26)	348.37	
50 89 87 71-0081	LF			CALTRAN 710776 HDPE PLASTIC PIPELINER (54" OD SDR 26)	425.14	
50 89 87 71-0082	LF			CALTRAN 710778 HDPE PLASTIC PIPELINER (55.3" OD SDR 26)	448.96	
50 89 87 71-0083	LF			CALTRAN 710780 HDPE PLASTIC PIPELINER (63.2" OD SDR 26)	562.98	
50 89 87 71-0084	LF			CALTRAN 710882 HDPE PLASTIC PIPELINER (16" OD SDR 21)	60.03	
50 89 87 71-0085	LF			CALTRAN 710884 HDPE PLASTIC PIPELINER (18" OD SDR 21)	75.47	
50 89 87 71-0086	LF			CALTRAN 710886 HDPE PLASTIC PIPELINER (20" OD SDR 21)	92.90	
50 89 87 71-0087	LF			CALTRAN 710888 HDPE PLASTIC PIPELINER (22" OD SDR 21)	107.26	
50 89 87 71-0088	LF			CALTRAN 710890 HDPE PLASTIC PIPELINER (24" OD SDR 21)	122.91	
50 89 87 71-0089	LF			CALTRAN 710891 HDPE PLASTIC PIPELINER (26" OD SDR 21)	140.48	
50 89 87 71-0090	LF			CALTRAN 710892 HDPE PLASTIC PIPELINER (28" OD SDR 21)	158.69	
50 89 87 71-0091	LF			CALTRAN 710893 HDPE PLASTIC PIPELINER (30" OD SDR 21)	184.24	
50 89 87 71-0092	LF			CALTRAN 710894 HDPE PLASTIC PIPELINER (32" OD SDR 21)	211.08	
50 89 87 71-0093	LF			CALTRAN 710895 HDPE PLASTIC PIPELINER (34" OD SDR 21)	233.54	
50 89 87 71-0094	LF			CALTRAN 710896 HDPE PLASTIC PIPELINER (36" OD SDR 21)	256.00	
50 89 87 71-0095	LF			CALTRAN 710897 HDPE PLASTIC PIPELINER (39.5" OD SDR 21)	293.26	
50 89 87 71-0096	LF			CALTRAN 710898 HDPE PLASTIC PIPELINER (42" OD SDR 21)	330.54	
50 89 87 71-0097	LF			CALTRAN 710899 HDPE PLASTIC PIPELINER (48" OD SDR 21)	427.31	
50 89 87 71-0098	LF			CALTRAN 710900 HDPE PLASTIC PIPELINER (54" OD SDR 21)	522.83	
50 89 87 71-0099	LF			CALTRAN 710902 HDPE PLASTIC PIPELINER (55.3" OD SDR 21)	552.18	
50 89 87 71-0100	LF			CALTRAN 710904 HDPE PLASTIC PIPELINER (63.2" OD SDR 21)	693.85	

50 89 88 CALTRAN DIVISION VIII - MISCELLANEOUS CONSTRUCTION (50 89 80)

50 89 88 80 FENCES (50 89 80)

Note: Includes constructing fences and gates, excavation, concrete footing, posts, bracing, tension wire, hardware and grounding material per CALTRAN Standard.

50 89 88 80-0001	LF			CALTRAN 800004 FENCE (TYPE BW, 5-STRAND, WOOD POST)	9.54	
50 89 88 80-0002	LF			CALTRAN 800006 FENCE (TYPE BW, 6-STRAND, WOOD POST)	10.16	
50 89 88 80-0003	LF			CALTRAN 800007 FENCE (TYPE BW, 5-STRAND, METAL POST)	10.84	
50 89 88 80-0004	LF			CALTRAN 800008 FENCE (TYPE BW, 4-STRAND, METAL POST)	10.02	
50 89 88 80-0005	LF			CALTRAN 800010 FENCE (TYPE BW, 4-STRAND, WOOD POST)	8.93	
50 89 88 80-0006	LF			CALTRAN 800016 FENCE (TYPE BW, 6-STRAND, METAL POST)	11.45	
50 89 88 80-0007	LF			CALTRAN 800103 TEMPORARY FENCE (TEMPORARY FENCE (TYPE CL-6))	3.04	
50 89 88 80-0008	LF			CALTRAN 800302 CHAIN LINK FENCE (TYPE CL-3, VINYL-CLAD)	27.34	
				<i>For Up To 100, Add</i>	5.42	
				<i>For >100 To 250, Add</i>	2.02	
				<i>For >2,500 To 5,000, Deduct</i>	-1.01	
				<i>For >5,000, Deduct</i>	-2.02	
50 89 88 80-0009	LF			CALTRAN 800310 CHAIN LINK FENCE (TYPE CL-3.5)	26.56	
				<i>For Up To 100, Add</i>	5.28	
				<i>For >100 To 250, Add</i>	1.98	
				<i>For >2,500 To 5,000, Deduct</i>	-0.99	
				<i>For >5,000, Deduct</i>	-1.98	
50 89 88 80-0010	LF			CALTRAN 800320 CHAIN LINK FENCE (TYPE CL-4)	27.38	
				<i>For Up To 100, Add</i>	5.42	
				<i>For >100 To 250, Add</i>	2.03	
				<i>For >2,500 To 5,000, Deduct</i>	-1.01	
				<i>For >5,000, Deduct</i>	-2.03	
50 89 88 80-0011	LF			CALTRAN 800321 CHAIN LINK FENCE (TYPE CL-4, VINYL-CLAD)	28.24	
				<i>For Up To 100, Add</i>	5.55	
				<i>For >100 To 250, Add</i>	2.07	
				<i>For >2,500 To 5,000, Deduct</i>	-1.03	
				<i>For >5,000, Deduct</i>	-2.07	

50 Custom Standards And Assemblies

50 89 Custom Standards And Assemblies

50 89 80 CALTRAN Construction Performance Requirements



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 80-0012 LF CALTRAN 800340 CHAIN LINK FENCE (TYPE CL-5).....	29.27	
For Up To 100, Add	5.75	
For >100 To 250, Add	2.14	
For >2,500 To 5,000, Deduct	-1.07	
For >5,000, Deduct	-2.14	
50 89 88 80-0013 LF CALTRAN 800341 CHAIN LINK FENCE (TYPE CL-5, VINYL-CLAD).....	30.36	
For Up To 100, Add	5.91	
For >100 To 250, Add	2.20	
For >2,500 To 5,000, Deduct	-1.10	
For >5,000, Deduct	-2.20	
50 89 88 80-0014 LF CALTRAN 800360 CHAIN LINK FENCE (TYPE CL-6).....	31.63	
For Up To 100, Add	6.19	
For >100 To 250, Add	2.30	
For >2,500 To 5,000, Deduct	-1.15	
For >5,000, Deduct	-2.30	
50 89 88 80-0015 LF CALTRAN 800361 CHAIN LINK FENCE (TYPE CL-6, VINYL-CLAD).....	33.85	
For Up To 100, Add	6.52	
For >100 To 250, Add	2.42	
For >2,500 To 5,000, Deduct	-1.21	
For >5,000, Deduct	-2.42	
50 89 88 80-0016 LF CALTRAN 800363 CHAIN LINK FENCE (TYPE CL-6, EXTENSION ARM).....	32.14	
For Up To 100, Add	6.27	
For >100 To 250, Add	2.33	
For >2,500 To 5,000, Deduct	-1.16	
For >5,000, Deduct	-2.33	
50 89 88 80-0017 LF CALTRAN 800365 CHAIN LINK FENCE (TYPE CL-6, SLATTED).....	66.39	
For Up To 100, Add	11.76	
For >100 To 250, Add	4.22	
For >2,500 To 5,000, Deduct	-2.11	
For >5,000, Deduct	-4.22	
50 89 88 80-0018 LF CALTRAN 800400 CHAIN LINK FENCE (TYPE CL-8).....	36.91	
For Up To 100, Add	7.13	
For >100 To 250, Add	2.64	
For >2,500 To 5,000, Deduct	-1.32	
For >5,000, Deduct	-2.64	
50 89 88 80-0019 EA CALTRAN 802100 4' CHAIN LINK GATE (TYPE CL-4).....	259.65	
50 89 88 80-0020 EA CALTRAN 802110 5' CHAIN LINK GATE (TYPE CL-4).....	305.23	
50 89 88 80-0021 EA CALTRAN 802120 6' CHAIN LINK GATE (TYPE CL-4).....	359.42	
50 89 88 80-0022 EA CALTRAN 802180 12' CHAIN LINK GATE (TYPE CL-4).....	857.58	
50 89 88 80-0023 EA CALTRAN 802340 8' CHAIN LINK GATE (TYPE CL-5).....	543.44	
50 89 88 80-0024 EA CALTRAN 802400 14' CHAIN LINK GATE (TYPE CL-5).....	1,203.40	
50 89 88 80-0025 EA CALTRAN 802420 16' CHAIN LINK GATE (TYPE CL-5).....	1,390.97	
50 89 88 80-0026 EA CALTRAN 802440 18' CHAIN LINK GATE (TYPE CL-5).....	1,551.85	
50 89 88 80-0027 EA CALTRAN 802500 3' CHAIN LINK GATE (TYPE CL-6).....	266.83	
50 89 88 80-0028 EA CALTRAN 802501 4' CHAIN LINK GATE (TYPE CL-6).....	332.99	
50 89 88 80-0029 EA CALTRAN 802502 4' CHAIN LINK GATE (TYPE CL-6, VINYL-CLAD).....	186.83	
50 89 88 80-0030 EA CALTRAN 802503 4' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM).....	337.93	
50 89 88 80-0031 EA CALTRAN 802504 4' CHAIN LINK GATE (TYPE CL-6, SLATTED).....	353.75	
50 89 88 80-0032 EA CALTRAN 802510 5' CHAIN LINK GATE (TYPE CL-6).....	387.74	
50 89 88 80-0033 EA CALTRAN 802520 6' CHAIN LINK GATE (TYPE CL-6).....	451.24	
50 89 88 80-0034 EA CALTRAN 802540 8' CHAIN LINK GATE (TYPE CL-6).....	580.67	
50 89 88 80-0035 EA CALTRAN 802543 8' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM).....	586.19	
50 89 88 80-0036 EA CALTRAN 802550 9' CHAIN LINK GATE (TYPE CL-6).....	644.57	
50 89 88 80-0037 EA CALTRAN 802560 10' CHAIN LINK GATE (TYPE CL-6).....	941.42	
50 89 88 80-0038 EA CALTRAN 802580 12' CHAIN LINK GATE (TYPE CL-6).....	1,112.25	
50 89 88 80-0039 EA CALTRAN 802601 14' CHAIN LINK GATE (TYPE CL-6).....	1,325.45	
50 89 88 80-0040 EA CALTRAN 802620 16' CHAIN LINK GATE (TYPE CL-6).....	1,500.24	
50 89 88 80-0041 EA CALTRAN 802640 18' CHAIN LINK GATE (TYPE CL-6).....	1,680.63	
50 89 88 80-0042 EA CALTRAN 802660 20' CHAIN LINK GATE (TYPE CL-6).....	1,864.43	
50 89 88 80-0043 EA CALTRAN 802670 24' CHAIN LINK GATE (TYPE CL-6).....	2,242.31	
50 89 88 80-0044 EA CALTRAN 802840 18' CHAIN LINK GATE (TYPE CL-7).....	1,776.21	
50 89 88 80-0045 LF CALTRAN 802900 CHAIN LINK FENCE (TYPE CL-8, EXTENSION ARM).....	37.42	
For Up To 100, Add	7.21	
For >100 To 250, Add	2.67	
For >2,500 To 5,000, Deduct	-1.33	
For >5,000, Deduct	-2.67	
50 89 88 80-0046 EA CALTRAN 802901 4' CHAIN LINK GATE (TYPE CL-8).....	409.98	
50 89 88 80-0047 EA CALTRAN 802902 4' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM).....	414.92	
50 89 88 80-0048 EA CALTRAN 802920 6' CHAIN LINK GATE (TYPE CL-8).....	547.15	
50 89 88 80-0049 EA CALTRAN 802941 8' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM).....	709.45	
50 89 88 80-0050 EA CALTRAN 803010 14' CHAIN LINK GATE (TYPE CL-10, VINYL_CLAD).....	1,012.23	
50 89 88 80-0051 LF CALTRAN 803050 REMOVE CHAIN LINK FENCE.....	4.88	
For Up To 100, Add	1.22	
For >100 To 250, Add	0.49	
For >2,500 To 5,000, Deduct	-0.24	
For >5,000, Deduct	-0.49	
50 89 88 80-0052 EA CALTRAN 803060 REMOVE GATE.....	223.98	
50 89 88 80-0053 LF CALTRAN 803180 RELOCATE CHAIN LINK FENCE.....	23.49	



Custom Standards And Assemblies	50	50
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CALTRAN Construction Performance Requirements	50 89 80	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 50

50 Custom Standards And Assemblies

50 89 Custom Standards And Assemblies

50 89 80 CALTRAN Construction Performance Requirements



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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